BMJ Open

Making the most of existing research: an evidence gap map of the effects of food systems interventions in low-income and middle-income countries

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To cite: Storhaug IG, Lane C, Moore N, *et al*. Making the most of existing research: an evidence gap map of the effects of food systems interventions in low-income and middle-income countries. *BMJ Open* 2022;**12**:e055062. doi:10.1136/bmjopen-2021-055062

► Prepublication history and additional supplemental material for this paper are available online. To view these files, please visit the journal online (http://dx.doi.org/10.1136/bmjopen-2021-055062).

Received 13 July 2021
Accepted 08 May 2022

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ABSTRACT

Objective Identify and describe the available evidence on the effects food systems interventions on food security and nutrition outcomes in low-income and middle-income countries.

Methods An adapted version of the high-level panel of experts food systems framework defined the interventions and outcomes included studies. Included study designs were experimental and quasi-experimental quantitative impact evaluations and systematic reviews. Following standards for evidence gap maps developed by 3ie, a systematic search of 17 academic databases and 31 sector-specific repositories in May 2020 identified articles for inclusion. Trained consultants screened titles/abstracts, then full texts of identified articles. Studies meeting eligibility criteria had meta-data systematically extracted and were descriptively analysed. Systematic reviews were critically appraised.

Results The map includes 1838 impact evaluations and 178 systematic reviews. The most common interventions, with over 100 impact evaluations and 20 systematic reviews each, were: provision of supplements, fortification, nutrition classes, direct provision of foods and peer support/counselling. Few studies addressed national-level interventions or women's empowerment. The most common final outcomes were: anthropometry, micronutrient status, and diet quality and adequacy. Intermediate outcomes were less studied.
Most evaluations were conducted in sub-Saharan Africa (33%) or South Asia (20%). Many studies occurred in lower-middle-income countries (43%); few (7%) were in fragile countries. Among studies in a specific age group, infants were most frequently included (19%); 14% of these also considered mothers.
Few evaluations considered qualitative or cost analysis; 75% used randomisation as the main identification strategy.

Discussion The uneven distribution of research means that some interventions have established impacts while other interventions, often affecting large populations, are underevaluated. Areas for future research include the evaluation of national level policies, evaluation of efforts to support women's empowerment within the food system, and the synthesis of dietary quality. Quasi-experimental approaches should be adopted to evaluate difficult to randomise interventions.

STRENGTHS AND LIMITATIONS OF THIS STUDY

⇒ Broad scope including intermediate outcomes.
⇒ Protocol developed and implemented in a 9-month period drawing on latest advances in synthesis project management.
⇒ Not able to carry out forward citation checking due to high volume of included studies.
⇒ Only included studies published in English; however, research has found that synthesis results are not affected when the effect sizes from non-English studies are removed from the analysis.[30]

INTRODUCTION

The triple burden of malnutrition refers to the concurrent presence of micronutrient deficiency, insufficient energy intake (ie, underweight) and excessive energy intake (ie, overweight and obesity) in a population.[1] Between 720 and 811 million people experience hunger and 2.37 billion lack key vitamins and minerals in their diets.[2] Furthermore, worldwide obesity nearly tripled between 1975 and 2014 with over 1.9 billion adults classed as overweight in 2016, of whom 650 million were obese.[3 4] The prevalence of the triple burden of malnutrition is highest in low-income and middle-income countries (L&MICs), and especially, in fragile and conflict affected countries.[5]

The realities and challenges of the triple burden of malnutrition refocused the international community on food systems. Governments are expanding nutrition targets and increasing spending on nutrition-sensitive interventions, as these have the potential to simultaneously address multiple forms of malnutrition.[5] The number of interventions implemented and evaluations of these interventions increased substantially in recent years.[6–8]

As a result, there is an extensive, heterogeneous and rapidly growing body of literature evaluating the effects of food systems interventions on food security and nutrition in L&MICs. There have been several efforts to synthesise portions of this literature to support evidence-informed decision making. Most of the empirical focus has been on nutrition-sensitive agriculture[6 9–11]; although, there is growing research on food policy and food systems in general,[12–14] and development of methods used to study these complex relationships.[5 15 16] However, there is a need for a broad, comprehensive overview of the evidence on all types of food systems interventions and their impacts on nutrition and food security.

The evidence gap map (EGM) presented here provides an overview of the existing literature and identifies evidence gaps to address the need for such a comprehensive overview. EGMs have the twin objectives of making existing evidence more easily available and informing strategic approaches to address extant evidence gaps.[17 18] Such work assists stakeholders in identifying high-quality evidence and key areas for future research investments. This paper describes the methods and results of the mapping exercise and presents the results related to the distribution of the evidence base. 3ie's interactive online platform displays the final EGM.[19] It uses a matrix format to reflect the distribution of evidence relating interventions within the food system (y-axis) to food security and nutrition outcomes (x-axis).

METHODS

We followed standards and methods established by 3ie in this EGM.[17 18] In doing so, we used a systematic approach to identify, describe and map existing impact evaluations (IEs) and systematic reviews (SRs) assessing food systems interventions to improve food security and nutrition outcomes in L&MICs. The EGM was not registered, but the protocol was published on 3ie's Development Evidence PortalPortal.[19]

Defining the intervention-outcome framework

Interventions:

We adapted the high-level panel of experts (HLPE) framework from 201[20] (extended by the International Food Policy Research Institute (IFPRI)[21]) to define the food system and categorise relevant interventions. The framework includes three domains: the food supply chain, the food environment and consumer behaviour (online supplemental appendix A). They reflect groups of actions and interventions, not a sequential flow of activities leading to one another.

The primary difference between the HLPE/IFPRI framework and our adaptation is that each intervention was assigned to only one domain to facilitate categorisation and maintain visual clarity (figure 1). Each domain was disaggregated into specific intervention groups (table 1). The HLPE/IFPRI framework outlines four activities within the food supply chain: production, storage and distribution, processing and packaging, and food loss and waste management. The food environment domain includes interventions that engage with the physical, economic, political and sociocultural surroundings, opportunities and conditions that create, prompt and shape dietary preferences and choices and nutritional status.[21–23] Finally, consumer behaviour interventions focus on individual preferences related to consumption, food prices and income available for food.[21 22] The HLPE/IFPRI framework outlines five main drivers of change in (global) food systems: biophysical and environmental; innovation, technology and infrastructure; political and economic; sociocultural and demographics.[20 21] These drivers are often exogenous factors in our interventions of interest and are excluded from the scope of this EGM.

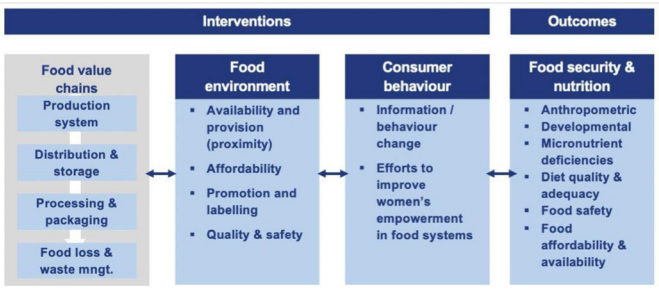

Figure 1 EGM framework, adapted from the HLPE/IFPRI framework. EGM, evidence gap map; HLPE, high-level panel of experts; IFPRI, International Food Policy Research Institute.

Outcomes:

All measures of food security and nutrition were included as final outcomes. Intermediate outcomes, measuring steps along the theory of change such as income changes or food loss, were also included (table 2).

Study inclusion criteria

We included studies in L&MICs defined by the World Bank classification during the year of publication. Studies in populations with specific health conditions, such as HIV, anaemia or severe malnutrition, were excluded as the nutritional needs of these populations are unique. Included interventions and outcomes are defined above. Included study designs were quasi-experimental or experimental IEs and SRs of studies employing these methods (online supplemental appendix B). Only studies published in or after year 2000 and English language were included. Both ongoing and completed studies were included.

Search strategy

We systematically searched for English-language reports in 17 academic bibliographic databases in May 2020: MEDLINE, EMBASE, EconLit, Oxfam Policy, Repec, World Bank eLibrary, Cochrane Library, Agris, CINAHL, CAB Global Health, CAB Abstracts, Agricola, PsycINFO, Africa-Wide Information, Academic Search Complete, Scopus and WHO Global Index Medicus. See online supplemental appendix C for full search strings. We used

Table 1 Interventions included in the EGM framework

Domain	Intervention category	Intervention
Food supply chain	Production system	Provision of improved water access and management systems
		Provision of free or reduced-cost access to improved seed varieties
		Provision of free or reduced-cost access to fertiliser
		Provision of free or reduced-cost access to pesticides/herbicides
		Provision of free or reduced-cost access to livestock
		Provision of free or reduced-cost access to other/unspecified agricultural inputs
		Provision of mechanical equipment
		Education/information—farmer field schools
		Education/information—agricultural extension programmes
		Education/information—information guidance
		Education/information—other educational programmes
		Other efforts to improve the production system—insurance
		Other efforts to improve the production system—contract farming
		Other efforts to improve the production system—market support
		Other efforts to improve the production system—land markets and management
		Other efforts to improve the production system—agricultural credit/savings
		Other efforts to improve the production system—other
	Distribution and storage	Support for creating storage structure at farms
		Trade regulations
		Implementation of distribution centres
		Improved transportation from farms to markets
		Education regarding improved storage and distribution techniques
		Cold chain initiatives
	Processing and packaging	Fortification
		Packaging
		On farm, postharvest processing
		Provision of good or services to support food processes of business models
		Education regarding improved processing and packaging techniques
	Food loss and waste management	Private food donation
		Use of and education regarding the use of spoiled, near spoiled, or traditionally uneaten food
		Composting
Food environment	Availability	Designations of space and zoning laws
		Direct provision of foods
		Provision or use of supplements
	Affordability	Cash-for-food programmes
		Governmental price manipulations (excluding tariffs)
	Promotion and labelling	Advertising regulations
		Innovative store design
		Labelling regulations
	Quality and safety	Food safety regulations

Continued

Table 1 Continued

Domain	Intervention category	Intervention
Consumer behaviour	Efforts to increase women's decision-making power	Efforts to increase women's decision-making power
	Information/behaviour change communication	Peer support/counsellors
		Professional services (dieticians/ nurses)
		Community meetings
		Classes
	Healthy food social marketing campaigns	Healthy food social marketing campaigns
	Information/behaviour change communication	Door-to-door campaigns

EGM, Evidence Gap Map.

terms for relevant interventions, study designs and publication year. To identify studies taking place in L&MICs, we applied the Cochrane Effective Practice and Organisation of Care Group 'LMIC Filters' 2020.

We completed a grey literature search of 31 sector specific databases and websites using basic search strings tailored to each database or website (online supplemental appendix C). We cross-checked all citations from included SRs for inclusion. We requested additional relevant literature from the advisory and policy stakeholder groups and through a blog post on the 3ie website that was promoted using social media; any studies identified before the end of September 2020 were also included.

Screening and data extraction procedure

After we removed duplicates, the research team screened titles and abstracts, followed by eligible full text reports, according to predefined criteria. Single screening with a safety-first approach was carried out; if the first reviewer was uncertain, she marked it for a second review.[24] Periodic meetings were held to discuss and resolve screening decisions for studies marked for a second opinion, for boundary decision examples, see online supplemental appendix D. Full-text reports were single screened using the safety-first approach (70%), with 30% double screening. The EPPI-Reviewer V.4 software's machine learning streamlined the process and efficiently removed clearly irrelevant studies.

All articles on the same intervention and population were linked to avoid over-representing interventions with multiple reports. For example, reports were linked when authors followed a group of participants over time, published multiple versions of the same study in different formats or updated an SR. Descriptive information was only included once for each group of linked publications. Therefore, the presented analysis is reported at the study level, rather that the publication level. However, if there was additional relevant data, such as outcomes, in the linked publications this was added to the record for the main study.

One person systematically extracted data and another person verified the data using a prespecified data extraction tool (online supplemental appendix E). General study characteristics, such as authors, publication date, study location, intervention type, outcomes reported and definition of outcome measures, population of interest and funders, were extracted. Methodological information, including the type of quantitative methods employed and whether any cost or cost-benefit analysis was conducted, was also extracted.

We critically appraised all included SRs using a standardised appraisal tool (online supplemental appendix F). We considered each review's search strategy, screening method, risk of bias assessment, data extraction and synthesis methods. SRs were rated as low, medium or high confidence, based on guidance provided in Snilstveit and colleagues.[17] To ensure consistency in the quality appraisal process, a 5% sample of reviews was initially appraised by two researchers, then independently reconciled by an SR expert. Reviewers were provided with feedback. Subsequently, one person appraised each SR, and the SR expert independently reviewed all completed appraisals. IEs were not critically appraised due to timescale and resources.[17]

Developing the interactive EGM

All included studies are presented in an interactive graphic on 3ie's EGM platform.[19] This matrix presents the food systems interventions as rows and the food security and nutrition outcomes as columns. Within the matrix, grey circles represent IEs. Coloured circles represent SRs. The SRs follow a traffic-light system to indicate confidence in their findings: green for high confidence, orange for medium, red for low. Blue circles are ongoing studies. The size of the bubble indicates the relative size of the evidence base for that intervention-outcome combination. The interactive aspect of the EGM allows users to filter the results based on key characteristics, such as study design, intervention country and age of the

Table 2 Outcomes in the EGM framework

Stage of theory of change	Outcome group	Outcome sub-group
Intermediate	Economic	Income
		Assets
		Output value
		Prices received for goods
		Other SES indicators
		Tax revenue
		Purchasing behaviour
	Agricultural	Water related
		Animal husbandry
		Plant/crop production
		Land related
		Quality of agricultural inputs
		Agricultural cooperatives
	Nutritional outcomes	Food nutrient content
		Caloric requirements
		Nutrient bioavailability
	Advertising and labelling	Exposure to advertisement
		Advertisement topics
		Accuracy of advertisement
	Food distribution	Import/export
		Movement of food
		Location of foods in stores
		Food distribution centres
	Environmental impacts of the food system	Climate impact
		Non-food waste produced
	Food loss	Time food remains unspoiled
		Food spoilage
		Food loss
	Intrinsic motivators	Consumer preferences
		Perceptions
		Knowledge
	Women's empowerment	Decision making
		Ownership
		Control of resources
		Self-esteem
		Time use
		Other women's empowerment outcome
	Regulations	Violations
		Fines
		Other regulation outcome
	Economic, social, and political stability	Economic, social, and political stability
	Time use	Time use
	Behaviour change	Behaviour change
	Other steps taken due to non-compliance	Other steps taken due to non-compliance

Continued

Table 2 Continued

Stage of theory of change	Outcome group	Outcome sub-group
Final	Anthropometric	Linear growth
		Weight
		Relative weight
		MUAC
		Birth outcomes
		Anthropometric other
	Developmental outcomes	Physical
		Other developmental outcomes
	Micronutrient status	Iron
		Iodine
		Vitamin A
		Zinc
		Other micronutrient status outcome
	Diet quality and adequacy	Breast feeding
		Dietary diversity
		Insufficient diet
		Micronutrient intake
		Other diet quality and adequacy
	Food safety	Food toxins
		Food borne illness
		Other food safety outcome
	Food affordability and availability	Food access
		Food availability and supply
		Affordability
		Food insecurity measures
		Food stressed households

EGM, evidence gap map; MUAC, mid-upper arm circumference; SES, socioeconomic status.

participants, thereby facilitating efficient, user-friendly identification of relevant evidence.

RESULTS

We identified 142 849 articles through the academic database search; we found an additional 1590 through the grey literature search (figure 2). Studies with high similarity that potentially could be duplicates were identified by EPPI Reviewer software. Identical studies were automatically assigned as duplicates and the rest of the studies were manually compared by consultants. After removing duplicates, 111 641 studies were screened using title and abstract, and 10 323 screened using full text. Finally, 2477 papers were included, which correspond to 2016 unique studies (1838 IEs and 178 SRs) (online supplemental appendix G).

The results show a significant growth in literature over time (figure 3). In 2000, there were 17 IEs and 0 SRs, while in 2020 there were a total of 1838 IEs and 178 SRs. Growth in the literature base was especially high for IEs of food supply chain and consumer behaviour interventions. Half of the IEs were published between 2015 and 2019.

Characteristics of the evidence base

Interventions

There was an uneven distribution in the frequency with which interventions were evaluated. Certain nutrition-specific interventions were evaluated in over 100 IEs and 20 SRs: provision of supplements (SR 67; IE 369), fortification (SR 23; IE 245), direct provision of foods (SR 24; IE 205) and peer support and counselling in the consumer behaviour domain (SR 22; IE 130; figure 4).

Although at least one IE was identified for most of the interventions in the framework, we did not identify any IEs of interventions related to advertising regulations, food waste education or the packaging of food. Several intervention types had fewer than five evaluation studies: food safety regulations (1), cold chain initiatives (1), composting education (3), labelling regulations (3), door-to-door behaviour change communication campaigns

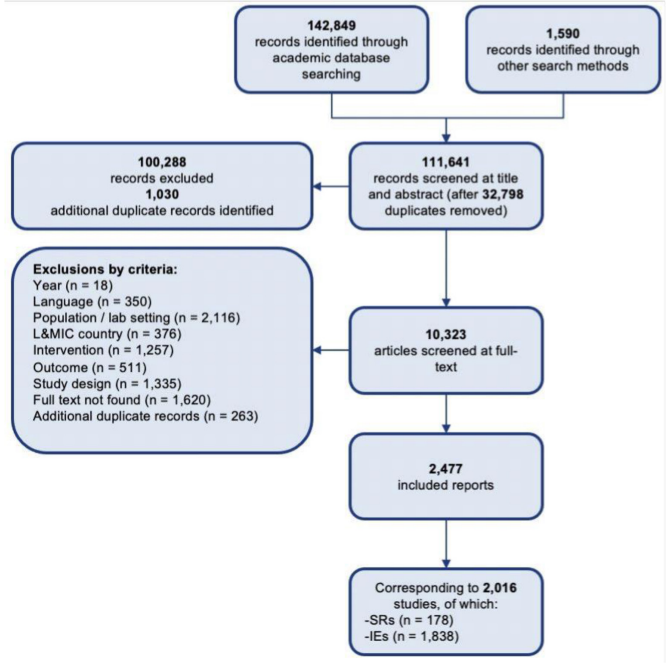

Figure 2 PRISMA diagram. IEs, impact evaluations; L&MIC, low-income and middle-income country; PRISMA, Preferred Reporting Items for Systematic Reviews and Meta-Analyses; SRs, systematic reviews.

(4), provision of goods and/or services to support food processing (4), on-farm and post-harvest processing (4); and access to pesticides (4).

Many interventions were associated with multiple IEs but only one or no SRs: agricultural extension (SR, 1; IE, 112), provision of free or reduced cost access to other/unspecified agricultural inputs (SR, 1; IE, 65), agricultural information provision (SR, 0; IE, 27), government manipulations of price (SR, 1; IE, 22) and agricultural insurance (SR, 1; IE, 22).

Some evaluations considered programmes with multiple components that spanned the interventions in the framework. Common groupings of interventions that were implemented and evaluated jointly in at least five IEs included: fortification and the direct provision of food, nutrition classes and healthy food marketing campaigns, and peer support and nutrition classes. In addition, 11 IEs considered multicomponent programmes with

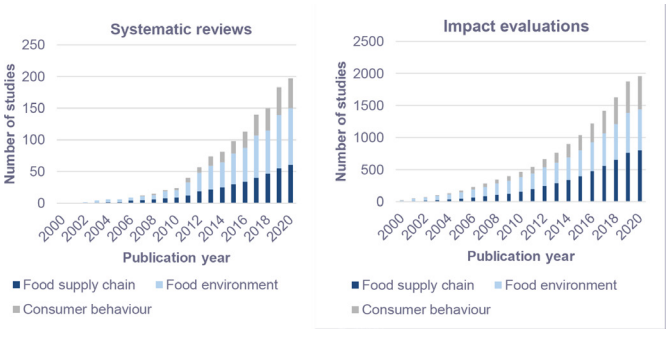

Figure 3 The cumulative distribution of included studies by year reflects a rapid growth in the literature base.

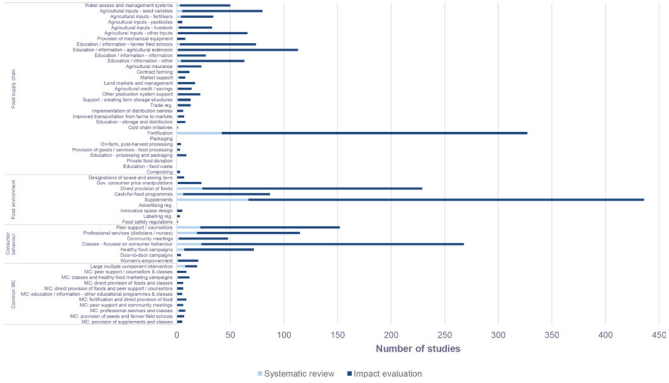

Figure 4 There is considerable heterogeneity in the frequency with which interventions are evaluated.

activities that fell into five or more interventions. Most of these included at least one food supply chain intervention. Eight SRs considered interventions that fell into five or more categories. Evaluations of common intervention packages are represented in the corresponding intervention package (eg, fortification and direct provision of food) while less common intervention packages are represented alongside each intervention component they implemented.

Outcomes

Almost three-quarters of studies evaluated at least one final outcome (SR 170; IE 1,353; figure 5). The most common final outcomes were anthropometry (SR 111; IE 671), micronutrient status (SR 78; IE 530) and diet quality and adequacy (SR 51; IE 555). The specific final outcomes that were most commonly examined in IEs were linear growth (433), weight (395) and relative weight (377).

Less than half of all included studies evaluated at least one intermediate outcome (SR 38; IE 848). The most common intermediate outcome categories were economic (SR 18; IE 350), agricultural (SR 13; IE 309) and intrinsic motivational outcomes (SR 16; IE 302). The specific intermediate outcomes that were most commonly examined were behaviour change (269), knowledge (238), income (225) and plant production (222).

The location of foods in stores, climate impact, non-food waste produced, import/export, agricultural cooperative performance, women's self-esteem, food spoilage

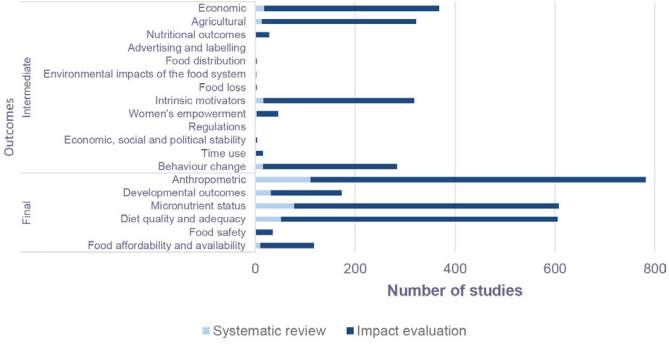

Figure 5 Research focuses on final outcomes without considering evidence along the theory of change.

or loss and economic, social and political stability were each considered in fewer than five studies.

Intervention-outcome combinations

The most common interventions (fortification, supplementation, the direct provision of food and nutrition classes) tended to be evaluated against iron status and various anthropometrics. Evaluations of the impacts of fortification considered iron status (170), linear growth (118), weight (100) and relative weight (78). Evaluations of supplementation programmes considered iron status (150), linear growth (125), weight (117) and relative weight (88). Evaluations of the direct provision of food also measured linear growth (81) and weight (74). While the evaluations of nutrition classes followed a similar pattern in outcome measurement as the others, they also tended to evaluate impacts on knowledge (91).

Other characteristics

IEs were primarily located in Sub-Saharan Africa (648), South Asia (367) and East Asia and the Pacific (324). IEs have been conducted in 25 (out of 36) fragile and conflict affected countries, as defined by the World Bank: mostly in sub-Saharan Africa (87) and the Middle East and North Africa (15).[25]

IEs mostly included both sexes and populations with a wide age range; however, few considered those over 60 years old (59). The most commonly isolated age group was infants (497). Among studies evaluating infant outcomes, 14% (70) also looked at outcomes for mothers. About 25% (405) of included studies focused on women of reproductive age, most commonly pregnant women (214), postpartum (86) and lactating women (68). Over half of the interventions were conducted in rural areas. Most interventions were implemented locally (1401). Only 175 interventions were conducted and evaluated at the national or transnational level. The most common intervention setting was in the household (627). Over 1300 of the included studies did not specify the programme funding agency type or name.

About three-quarters of the IEs were randomised controlled trials (RCTs) (1390). Quasi-experimental studies mainly used statistical matching (242) and difference-in-differences (136). Just over 10% of the IEs adopted mixed methods approaches (186). There were 173 IEs that reported cost data or presented cost analysis in some form; 103 of these presented detailed budget information or attempted to make some comparison between the costs of a programme and the associated benefits.

In total, 95 of the reviews were appraised as low confidence, 46 were rated medium confidence and 34 were rated high confidence. The high confidence SRs were mostly published more recently, with 75% published in or after 2015 (26), compared with 60% of low and medium quality reviews published in or after 2015. Reviews rated with high confidence predominantly focused on synthesising the effects of the provision or use of supplements on birth outcomes (10), iron or anaemia status (7) and the effect of fortification on iron status (6).

DISCUSSION

There is significant variation in the intensity of research by intervention and outcome type, in addition to other characteristics of interest such as setting, population and research method. The most well-researched interventions are nutrition-specific and include fortification, supplementation, the direct provision of food and nutrition classes. These interventions easily lend themselves to experimental IE designs. Positive impacts are consistently observed in short times scales using easily quantified metrics. Key evidence gaps included the evaluation of national level policies and efforts to support women's empowerment.

However, not all evidence gaps must be filled in our framework. In some cases, there is no theoretical reason to expect a relationship between an intervention and an outcome. In others, relationships may already have been (dis)proven. In both instances, additional research is not needed. For example, an evaluation of the impacts of breastfeeding peer-support groups on environmental outcomes is not theoretically sound. While the re-evaluation of certain interventions in new contexts may be necessary for external validity,[26] additional evaluations of the impacts of established interventions, such as fortification and supplementation interventions, are not necessarily beneficial unless they consider unique context. The generalisable impacts of these interventions were established as far back as the 2013 Lancet series on Maternal and Child Nutrition.[27] However, the evaluation of intervention-outcome relationships that are theoretically sound and not well established represent valuable practical contributions to the adoption of evidence supported interventions and policies.

Interventions which are difficult to evaluate due to long time frames (eg, land markets and management interventions), inability to randomise (eg, trade regulations or a national food policy) and difficulty in outcome measurement (eg, efforts to increase women's decision making) are not often evaluated. As a result, multicomponent interventions, national policies and agricultural interventions are understudied. There has been a shift in the rhetoric surrounding the evaluation of these interventions in recent years, but this is not yet apparent in the literature base.[28] The field of economics has taken on the challenge of identifying causal impacts in difficult contexts and developed new approaches for the evaluation of policy. In 2019 and 2021, the Nobel Prize in economics was awarded to researchers who developed innovative approaches to evaluate these difficult to study interventions.[29] There have been recent advancements in measuring benefits that happen far down the causal chain,[15] which could be useful in considering the impacts of agricultural interventions on final outcomes. The synthetic control method is becoming more widely

accepted and allows for the evaluation of national policies (eg, labelling regulations) and other interventions with only one treatment group (eg, designations of space and zoning).[16] Other approaches, such as adaptive trials, factorial designs and qualitative comparative analysis, for evaluating complex interventions are also being widely adopted.[30] Mixed-methods approaches for evaluating complexity-informed interventions are now well established.[31] Complexity-informed evaluation designs may be of particular interest to evaluators in the food system seeking to untangle the web of dependencies and driving forces that act on the complex system.

Opportunities for future research

Mixed-methods approaches and cost evidence are underrepresented in the literature base and could provide valuable insights to the field. In both cases, the higher costs of these evaluations can prevent them from being implemented. Differences between qualitative and quantitative research approaches can make cohesive mixed-methods evaluations challenging. Many 'mixed-methods' evaluations more closely resemble two separate evaluations (one quantitative and one qualitative) than a single, cohesive evaluation where each component is integrated within and builds off the other. One potential explanation for the limited cost evidence is that it is not, and should not be, conducted for evaluations that show null results. In addition, economic analysis can be challenging for studies that have heterogeneous effects (eg, only work for the poorest participants) as it is difficult to determine how participant selection could affect future cost-effectiveness.

We have identified several widely implemented interventions that have not been well studied and, therefore, provide promising opportunities for future research. Taxes on sugar-sweetened beverages and labelling regulations for unhealthy foods have not been evaluated for their impacts on weight, yet more than 40 countries (many L&MICs) have implemented these interventions to fight the obesity epidemic.[32 33] Mexico has successfully evaluated the impacts of their tax on some intermediate outcomes, implying that it is possible to conduct these evaluations, even if challenging.[34–40] Many stakeholders are supporting post-harvest processing initiatives, but have not yet established how far down the causal chain these interventions provide impact. Evaluations of these interventions have the potential to impact policies that affect the lives of millions of people worldwide. As the reach and resource requirements of an intervention increase, so does the ethical imperative to evaluate it.

The 400 studies that used 'other dietary quality and adequacy' outcomes represent an exciting gap for evidence synthesis. Often, these outcomes were the intakes of specific foods or food groups. While providing a wealth of information, the variation in outcomes makes drawing conclusions across studies challenging. By developing novel synthesis methods, the evidence across these different metrics could be used in new ways, reaching new conclusions and adding rich detail to existing work. There have been some recent efforts to collate the available methods for measuring diet, such as the INDDEX Project's Data4Diets tool and IMMANA's Innovative Metrics, Tools and Methods Evidence Gap Map.[41 42] However, tools for synthesising across metrics are not yet available.

Traditionally, women are significant actors within food systems; however, relatively few studies examined interventions supporting women's decision-making or measured outcomes regarding women's empowerment. The studies we identified typically viewed women as cooks and mothers rather than independent actors within the food system. One-quarter of studies focused on women of reproductive age, especially perinatal women. More interventions including women as independent actors within the food system could lead to promising new avenues to address Sustainable Development Goals 2 and 5 at the same time.

Implications for research and policy

This review of the evidence base highlights some ways that policy and research could be adopted to make the most of limited resources. Efforts need to move away from re-evaluating the impacts of established interventions, such as fortification, supplementation, the direct provision of food, and nutrition classes, to considering scaling and sustainability through process evaluation and implementation research. Now that these interventions are widely adopted,[43 44] we must consider how to implement them effectively at population level and in diverse contexts. Future studies could provide new insights by incorporating process evaluations, mixed-methods approaches and cost evidence to understand the mechanisms through which changes may occur and how limited resources can be best allocated.

The adoption of standardised measures of diet quality and adequacy would aid comparison and improve evidence synthesis efforts. Policy-makers, implementers and researchers must continue working together to develop measures of diet that balance ease of use, linkage to disease and standardisation across context in order to allow for the effective comparison of results. A new diet quality questionnaire may represent a productive way to systematised diet data; however, due to its novelty, it is unclear as of yet if it will be adopted.[45] Although measures of dietary diversity are relatively common (150 studies in our map), these metrics do not always capture sufficient information for detailed nutritional analysis.[46] A recent synthesis of metrics found that among 19 common dietary metrics, most were not validated against health outcomes and none were designed to measure the double burden of malnutrition.[47]

Decision-makers and practitioners are encouraged to use relevant existing high-quality SRs as identified though this mapping exercise. They may consider funding studies in under-researched areas and exercise caution and consideration prior to implementing under-researched interventions. However, because only IEs and SRs of

IEs were included in this EGM, policy-makers should strengthen any decisions made using this map with the following information sources:

- Existing or planned research and interventions by government agencies and development partners.
- Other forms of evidence, including implementation research, process evaluations, qualitative studies and programming administrative and monitoring information.
- Existing theories of change and logical frameworks.
- Formative work and local knowledge.

Strengths and limitations of research

There are several strengths and limitations of this research. Strengths include having a broad scope, considering a range of intermediate outcomes and reviewing a vast amount of the food security and nutrition intervention literature. The review protocol was developed and implemented in a 9-month period drawing on the latest advances in synthesis project management. Another strength is that this map was commissioned by a global health donor (GIZ), indicating a direct policy and planning need in the field.

Due to the high volume of included studies, forward citation checking was beyond the scope of this EGM. Only studies published in English were included; however, research has found that synthesis results are not affected when the effect sizes from non-English studies are removed from the analysis.[48] This decision was meant to limit scope, but some studies may be omitted.

EGM do not provide synthesis of the findings of IEs, rather they are intended to make these more easily available. Users of the map are expected to reference the included articles to make this judgement based on their unique interests and needs or use the EGM as a starting point for syntheses that do make these judgements.

CONCLUSION

Addressing the triple burden of malnutrition in a way that also considers the interactions of the food system with the ongoing climate crisis is one of the major challenges of our era. Increasing, but still limited, funding is dedicated to addressing this challenge it is important that decisions about policies and programmes are informed by the best available evidence. This EGM highlights a significant and growing evidence base on food systems and nutrition that could and should be used to support effective strategies. Decision makers and practitioners can use the EGM to access existing evidence on interventions. Commissioners of research and researchers themselves can use the EGM findings to prioritise the funding and conduct of new research

The findings show that there is a substantial imbalance in evidence on this topic, with interventions that lend themselves to RCTs being studied more frequently than interventions that cannot be randomised or take a long time to realise results. Researchers and policy-makers may consider the evaluation of national, widely implemented interventions with limited evidence and studies focusing on women as decision-makers. Future research should also assess the examine the intermediate steps in a theory of change.

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Contributors All authors contributed to study conception and design. ME created the search strategy and conducted the search. CL, NM, TMS, BS and IS contributed to the acquisition of data, analysis and interpretation of data. All authors drafted this manuscript or revised it for important content and provided the final approval of this version of the manuscript. IS is the guarantor.

Funding The research was funded by Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ).

Competing interests Funding for the submitted work by Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) as a part of the K4N programme and IMMANA donated their time to contribute to the delivery of the EGM.

Patient and public involvement Patients and/or the public were not involved in the design, or conduct, or reporting, or dissemination plans of this research.

Patient consent for publication Not applicable.

Provenance and peer review Not commissioned; externally peer reviewed.

Data availability statement Data are available on reasonable request. Data can be made available on request.

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REFERENCES

1 UNICEF. *The State of the World's Children 2019. Children, food and nutrition: Growing well in a changing world*. New York: UNICEF, 2019.
2 FAO, IFAD, UNICEF, WFP and WHO. *The state of food security and nutrition in the world 2021. transforming food systems for food security, improved nutrition and affordable healthy diets for all*. Rome: FAO, 2021.
3 NCD Risk Factor Collaboration (NCD-RisC). Worldwide trends in body-mass index, underweight, overweight, and obesity from 1975 to 2016: a pooled analysis of 2416 population-based measurement studies in 128·9 million children, adolescents, and adults. *Lancet* 2017;390:2627–42.
4 WHO. Overweight and obesity – key facts, 2020. Available: https://www.who.int/news-room/fact-sheets/detail/obesity-and-overweight [Accessed 11 Nov 2020].
5 Development Initiatives. *2020 global nutrition report: action on equity to end malnutrition*. Bristol, UK: Development initiatives, 2020.
6 Ruel MT, Quisumbing AR, Balagamwala M. Nutrition-sensitive agriculture: what have we learned so far? *Glob Food Sec* 2018;17:128–53.
7 Cliffer I, Masters WA, Trevino JA. Food systems and nutrition: emerging evidence and research opportunities. *Nutrition Innovation Lab* 2019 https://pdf.usaid.gov/pdf_docs/PA00W5W7.pdf

8 Fiorella KJ, Gavenus ER, Milner EM, *et al*. Evaluation of a social network intervention on child feeding practices and caregiver knowledge. *Matern Child Nutr* 2019;15:e12782.
9 Sharma IK, Di Prima S, Essink D, *et al*. Nutrition-Sensitive agriculture: a systematic review of impact pathways to nutrition outcomes. *Adv Nutr* 2021;12:251–75.
10 Timler C, Alvarez S, DeClerck F, *et al*. Exploring solution spaces for nutrition-sensitive agriculture in Kenya and Vietnam. *Agric Syst* 2020;180:102774.
11 Ruel MT, Alderman H, Maternal and Child Nutrition Study Group. Nutrition-sensitive interventions and programmes: how can they help to accelerate progress in improving maternal and child nutrition? *Lancet* 2013;382:536–51.
12 Haddad L, Hawkes C, Waage J. *Food systems and diets: facing the challenges of the 21st century*. London, UK: Global Panel on Agriculture and Food Systems for Nutrition, 2016.
13 Fanzo J, Hawkes C, Udomkesmalee E. 2018 global nutrition report: shining a light to Spur action on nutrition. development initiatives, 2018. Available: https://reliefweb.int/sites/reliefweb.int/files/resources/2018_Global_Nutrition_Report.pdf
14 Jones AD, Ejeta G. A new global agenda for nutrition and health: the importance of agriculture and food systems. *Bull World Health Organ* 2016;94:228–9.
15 Kremer M, Miguel E. Networks, social learning, and technology adoption: the case of Deworming drugs in Kenya. *Natural Field Experiments* 2003:003212.
16 Abadie A. Using synthetic controls: feasibility, data requirements, and methodological aspects. *J Econ Lit* 2021;59:391–425.
17 Snilstveit B, Bhatia R, Rankin K. *3ie evidence gap maps: a starting point for strategic evidence production and use, 3ie working paper 28*. New Delhi: International Initiative for Impact Evaluation (3ie), 2017.
18 Snilstveit B, Vojtkova M, Bhavsar A, *et al*. Evidence & Gap Maps: A tool for promoting evidence informed policy and strategic research agendas. *J Clin Epidemiol* 2016;79:120–9.
19 3ie. Development Evidence Portal. n.d. Available: https://developmentevidence.3ieimpact.org/egm/food-systems-and-nutrition-evidence-gap-map
20 HPLE. Nutrition and Food Systems. *A report by the high level panel of experts on*. Rome: Food Security and Nutrition of the Committee on World Food Security, 2017. http://www.fao.org/3/i7846e/i7846e.pdf
21 De Brauw A, Brouwer ID, Snoek H. *Food system innovations for healthier diets in low and middle-income countries. IFPRI discussion paper. No.01816*. Washington, DC: Intl Food Policy Res Inst (IFPRI), 2019.
22 Swinburn B, Dominich CH, Vandevjivere S. *Benchmarking food environments: experts' assessments of policy gaps and priorities for the New Zealand government*. Auckland: University of Auckland, 2014.
23 Panel G. *Policy actions to support enhanced consumer behaviour for high quality diets. policy brief No.8*. London, UK: Global Panel on Agriculture and Food Systems for Nutrition, 2017.
24 Shemilt I, Khan N, Park S, *et al*. Use of cost-effectiveness analysis to compare the efficiency of study identification methods in systematic reviews. *Syst Rev* 2016;5:1–13.
25 World Bank. FY18, 2018. Available: https://bit.ly/31QoJxl [Accessed 28 Oct 2020].
26 Pritchett L, Sandefur J. *'Validity Claims and Development Practice Don't Mix' Working Paper 336*. Center of Global Development, 2013.
27 The Lancet. Maternal and child nutrition. *The Lancet* 2013 https://www.thelancet.com/series/maternal-and-child-nutrition
28 Cedil. Evaluating complex interventions in international development, 2021. Available: https://cedilprogramme.org/events/evaluating-complex-interventions-in-international-development/
29 Athey S, Imbens GW. The state of applied Econometrics: causality and policy evaluation. *Journal of Economic Perspectives* 2017;31:3–32.
30 Cedil. N.d. Evaluating complex interventions. Available: https://cedilprogramme.org/funded-projects/programme-of-work-1/
31 Bamberger M. Introduction to Mixed Methods in Impact Evaluation. *InterAction*, 2012. Available: https://www.interaction.org/wp-content/uploads/2019/03/Mixed-Methods-in-Impact-Evaluation-English.pdf
32 OEH (Obesity Evidence Hub). Countries that have implemented taxes on sugar- sweetened beverages (SSBs), 2020. Available: https://www.obesityevidencehub.org.au/collections/prevention/countries-that-have- implemented-taxes-on-sugar-sweetened-beverages-ssbs [Accessed 2020 Nov 20].
33 Zhang Q, Liu S, Liu R, *et al*. Food policy approaches to obesity prevention: an international perspective. *Curr Obes Rep* 2014;3:171–82.
34 Taillie LS, Rivera JA, Popkin BM, *et al*. Do high vs. low purchasers respond differently to a nonessential energy-dense food tax? Two-year evaluation of Mexico's 8% nonessential food tax. *Prev Med* 2017;105S:S37–42.
35 Batis C, Rivera JA, Popkin BM, *et al*. First-Year evaluation of Mexico's tax on nonessential energy-dense foods: an observational study. *PLoS Med* 2016;13:e1002057.
36 Colchero MA, Rivera-Dommarco J, Popkin BM, *et al*. In Mexico, evidence of sustained consumer response two years after implementing a sugar-sweetened beverage Tax. *Health Aff* 2017;36:564–71.
37 Grogger J. Soda taxes and the prices of Sodas and other drinks: evidence from Mexico. *Am J Agric Econ* 2017;99:481–98.
38 Aguilar A, Gutierrez E, Seira E. The effectiveness of Sin food taxes: evidence from Mexico. *J Health Econ* 2021;77:102455.
39 Colchero MA, Popkin BM, Rivera JA, *et al*. Beverage purchases from stores in Mexico under the excise tax on sugar sweetened beverages: observational study. *BMJ* 2016;352:h6704.
40 Campos-Vázquez RM, Medina-Cortina EM. Pass-through and competition: the impact of soft drink taxes as seen through Mexican supermarkets. *Lat Am Econ Rev* 2019;28.
41 INDDEX Project. *Data4Diets: building blocks for diet-related food security analysis*. Boston, MA: Tufts University, 2018. https://inddex.nutrition.tufts.edu/data4diets
42 IMMANA. N.D. Evidence and gap map: innovative metrics, tool and methods in Agriculture-Nutrition research. Available: https://www.anh-academy.org/immana-egm.htm [Accessed 13th Jan 2022].
43 United Nations. Action tracks, 2021. Available: https://www.un.org/en/food-systems-summit/action-tracks [Accessed 17th Dec 2021].
44 Nutrition Connect. N.d. food fortification. Available: https://nutritionconnect.org/priority-areas/fortification [Accessed 17th Dec 2021].
45 Herforth A, Martínez-Steele E, Calixto G, *et al*. Development of a diet quality questionnaire for improved measurement of dietary diversity and other diet quality indicators (P13-018-19). *Curr Dev Nutr* 2019;3.
46 Leroy JL. Measuring the impact of agriculture programs on diets and nutrition. IFPRI, 2020. Available: https://ebrary.ifpri.org/utils/getfile/collection/p15738coll2/id/133954/filename/134170.pdf
47 Miller V, Webb P, Micha R, *et al*. Defining diet quality: a synthesis of dietary quality metrics and their validity for the double burden of malnutrition. *Lancet Planet Health* 2020;4:e352–70.
48 Higgins JP*et al*. *Cochrane Handbook for systematic reviews of interventions*. 2nd edition. Chichester, UK: John Wiley & Sons, 2019.

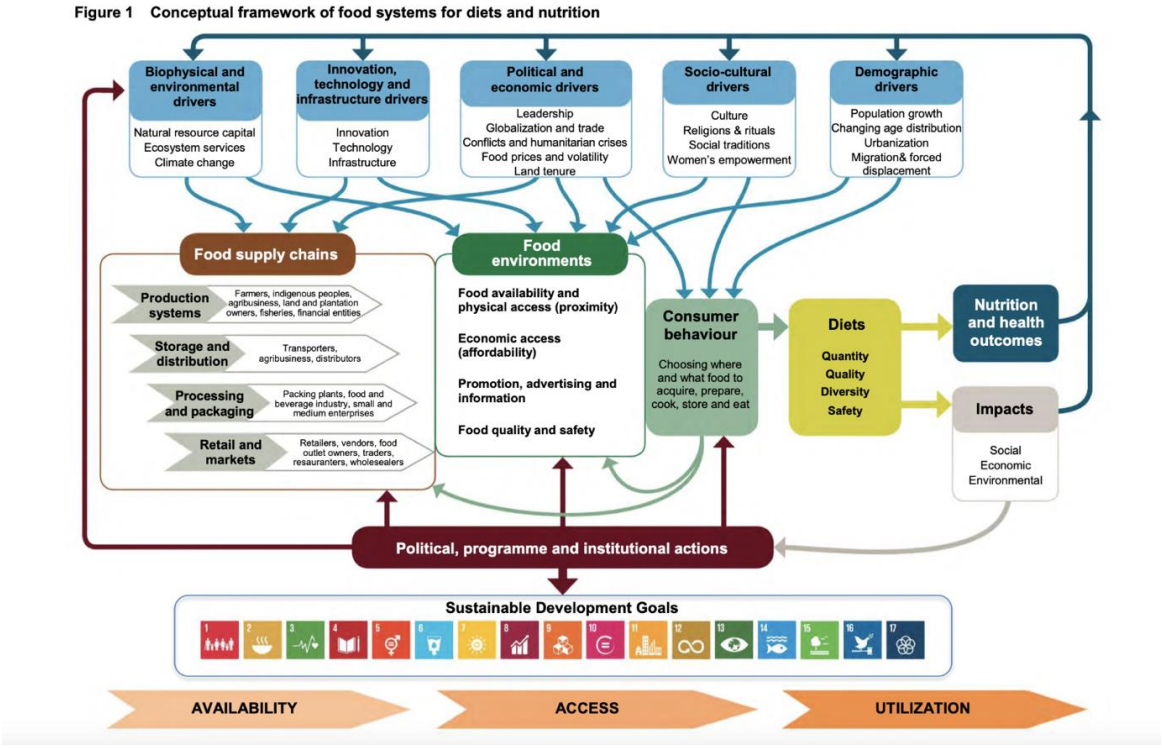
Correction: *Making the most of existing research: an evidence gap map of the effects of food systems interventions in low-income and middle-income countries*

Storhaug IG, Lane C, Moore N, *et al*. Making the most of existing research: an evidence gap map of the effects of food systems interventions in low-income and middleincome countries. *BMJ Open* 2022;12:e055062. doi:10.1136/bmjopen-2021-055062

This article has been corrected since it was published online. Two authors (Amber Franich and Heike Rolker) have been added to the paper.

BMJ Open 2023;**13**:e055062corr1. doi:10.1136/bmjopen-2021-055062corr1

Appendix A: HLPE framework[1]



Appendix B: Study design and comparator

We included impact evaluations where the comparison/control group receive no intervention, a different food system intervention, a placebo intervention or the study employs a pipeline (wait-list) approach.

We included both impact evaluations and systematic reviews:

- **Impact evaluation:** An impact evaluation is a study that uses rigorous methods to provide a quantitative estimate of the impact of an intervention. This is accomplished by constructing a counterfactual, which provides evidence about what would have happened in the absence of the intervention. In an impact evaluation, the outcomes of those who receive the intervention are compared with those of a comparison group that does not receive the intervention. The comparison group may be a specific population in the study area that does not receive the treatment (as in an RCT), or may be constructed by researchers (as in propensity score matching or interrupted time series). For an impact evaluation to be valid, there must be a sound statistical basis for claiming that the comparison group represents what would have happened to the treatment group had they not received the intervention.
- **Systematic review:** A systematic review is a synthesis of the research evidence on a particular topic, such as the effectiveness of water supply and sanitation, obtained through an exhaustive systematic literature search for all relevant studies using widely accepted scientific strategies to minimize error associated with appraising the design and results of studies. A systematic review uses methods of internal and external quality assurance that make it more similar to a primary study (e.g. double-coding of data, calculation of effect sizes from data reported, synthesis of finding).

We only included studies that implemented at least one of the following study designs that are widely used to evaluate intervention effectiveness[2,3]:

A) Prospective studies that allocate participants to and control groups using randomised or quasi-randomised mechanisms at individual or cluster levels:

   1. Randomised control trial (RCT) with assignment at the individual or cluster level.
   2. Quasi-RCT using a quasi-random method of prospective assignment (e.g. alternation of clusters)

B) Non-randomised designs with either a known assignment variable(s) or a seemingly random assignment process:

   3. Regression discontinuity designs, where assignment is done on a threshold measured before intervention, and the study uses prospective or retrospective approaches of analysis to control for unobservable confounding.
   4. Natural experiments with clearly defined intervention and comparison groups, which exploit apparently random natural variation in assignment (e.g. lottery) or random errors in implementation, etc.

C) Non-randomised studies with pre-intervention and post-intervention outcome data:

   5. Panel studies or pseudo-panels with analysis to account for time-invariant unobservables (e.g. difference-in-difference, DID, or fixed-effects models)

6. Cross-sectional or panel (controlled before and after) studies with an intervention and comparison group using methods to match individuals and groups statistically (e.g. PSM) or control for observable confounding in adjusted regression.

7. Interrupted time series (ITS)

C) Other non-randomised designs:

8. Studies that build a counterfactual through synthetic control approaches.

9. Cross-sectional studies using multi-stage or multivariate approaches to account for unobservables, including instrumental variable (IV) approaches such as two- or three-stage least squares procedures, or Heckman two-step estimation approaches

D) Systematic effectiveness reviews were included if they described the search, data collection and synthesis methods according to the 3ie database of systematic reviews protocols[4]. Any evidence reviews, such as literature reviews, that did not adopt these methods was excluded. We excluded systematic reviews that were not effectiveness reviews (i.e. those which do not aim to synthesise the evidence of the effects of a relevant intervention on priority outcomes of interest), such as systematic reviews of driving factors of nutrition sensitive methods. Where reviews included a mixture of evidence from both high-income and LMICs, we included them if they presented disaggregated evidence for LMICs, or if more than 50 per cent of the evidence of non-disaggregated results were from LMICs. Where there were no disaggregated results for LMICs and more than 50 per cent of the evidence for consolidated findings in a systematic review came from high-income countries, or where it was impossible to ascertain the composition of evidence by income level, the studies were excluded. If reviews included multiple research methods, we included these if over at least 50 percent of studies include at least one impact evaluation design specified above.

We excluded before-after studies or cross-sectional studies that did not attempt to control for selection bias or confounding in anyway.

Case-control studies were also excluded.

Studies that present the results of randomised block designs, where the farm fields or field sections are the blocking unit only were excluded.

Studies that only examine willingness-to-pay for goods, services, process and business models were excluded.

Other criteria

We also applied the following criteria when selecting studies for inclusion.

- **Language:** Studies published in any language will be included, although the search terms used will be in English only.
- **Publication date:** Studies will be included if their publication date was 2000 or after to make the search results manageable for the study team to screen in the timeframe that was available.
- **Status of studies:** We will include ongoing and completed impact evaluations and systematic reviews. For on-going studies, we will include prospective study records, protocols and trial registries. Providing an indication of the prevalence and characteristics of on-going evaluation evidence is expected to enrich the analysis of current evidence gaps and support decision making in relation to evidence generation.

Appendix C: Full search strategy

C1. Search strategy for academic bibliographic databases

Academic Search Complete, Agris, Repec, World Bank e-Library, Oxfam Policy, Africa-Wide, Agricola, CAB abstract and CINAHL were searched simultaneously in Ebsco. CAB Global Health, EconLit, Embase, Medline and PsychInfo were searched simultaneously in Ovid. Scopus, Cochrane Library and WHO Global Index Medicus were searched directly in the database website.

Database searched	Number of records identified
Academic Search Complete, Agris, Repec, World Bank e-Library, Oxfam Policy	18711
Africa-Wide	4338
Agricola	1712
Cab Abstract	30369
CINAHL	4055
CAB Global Health	24575
EconLit	2465
Embase	1638
Medline	13314
PsychINFO	1943
Scopus	33233
Cochrane Library	4237
WHO Global Index Medicus	2047

CAB Abstracts (Ebsco) – Searched 27th May 2020

S16 S3 AND S4 AND S15 Limiters - Publication Year: 2000-2020
30,369

S15 S5 OR S6 OR S7 OR S8 OR S9 OR S10 OR S11 OR S12 OR S13 OR S14
Limiters - Publication Year: 2000-2020
353,753

S14 TI ((cook* or ((meal* or food*) N3 prepar*) or (wom?n N4 (food* or eat* or feed* or meal* or diet*) N4 (empower* or deci*)) or ((food* or eat* or feed* or breastfeed* or "breast feed*" or meal* or diet* or "F&V") N4 (inform* or educat* or promot* or campaign* or media or initiative* or (peer N1 (counsel* or support)) or (community N3 (meet* or class* or engag* or participat*)) or "door-to-door")))) OR SJ((cook* or ((meal* or food*) N3 prepar*) or (wom?n N4 (food* or eat* or feed* or meal* or diet*) N4 (empower* or deci*)) or ((food* or eat* or feed* or breastfeed* or "breast feed*" or meal* or diet* or "F&V") N4 (inform* or educat* or promot* or

campaign* or media or initiative* or (peer N1 (counsel* or support)) or (community N3 (meet* or class* or engag* or participat*)) or "door-to-door"))))

34,568

S13 TI ((((food* N3 (safe* or quality)) N3 (regulat* or restrict* or polic* or law* or legislat* or inspect*)) or (food* N3 certif*))) OR SJ ((((food* N3 (safe* or quality)) N3 (regulat* or restrict* or polic* or law* or legislat* or inspect*)) or (food* N3 certif*)))

636

S12 TI (((food* N4 ((advertis* or label* or market*) N3 (ban* or restrict* or regulat* or polic* or law* or legislat*))) or ((supermarket or ((food* or grocer* or convenience or corner) N1 (store* or market*))) N4 (design* or redesign* or re-design* or layout* or innovat*)) or (front N3 pack* N3 label*))) OR SJ (((food* N4 ((advertis* or label* or market*) N3 (ban* or restrict* or regulat* or polic* or law* or legislat*))) or ((supermarket or ((food* or grocer* or convenience or corner) N1 (store* or market*))) N4 (design* or redesign* or re-design* or layout* or innovat*)) or (front N3 pack* N3 label*)))

427

S11 TI ((((food* or consumer*) N4 (subsid* or "price control*")) or (food* N4 (cash or "social assistance" or "social safety net" or voucher* or welfare)))) OR SJ((((food* or consumer*) N4 (subsid* or "price control*")) or (food* N4 (cash or "social assistance" or "social safety net" or voucher* or welfare))))

508

S10 TI (("food environment*" or (zoning and (food* N3 (security or access*))) or ((sugar* or SSB or "unhealthy food*") N3 tax*) or nudg* or ((food* or eat* or feed* or meal* or diet*) N4 (deci* or ((cultur* or social) N3 (norm* or preferen*)))) or "ration shop*" or "farmer* market*" or "food desert*" or ((food or grocer*) N3 retail* N3 (tax* or subsid* or incentiv*)) or (school* N4 (meal* or feed* or food* or lunch*)))) OR SJ(("food environment*" or (zoning and (food* N3 (security or access*))) or ((sugar* or SSB or "unhealthy food*") N3 tax*) or nudg* or ((food* or eat* or feed* or meal* or diet*) N4 (deci* or ((cultur* or social) N3 (norm* or preferen*)))) or "ration shop*" or "farmer* market*" or "food desert*" or ((food or grocer*) N3 retail* N3 (tax* or subsid* or incentiv*)) or (school* N4 (meal* or feed* or food* or lunch*))))

5,653

S9 TI (((food N3 (loss* or wast*)) or ((food* or grocer* or soup) N4 (donat* or pantr* or bank* or kitchen* or transfer*)) or (food* N4 near* N4 spoil*))) OR SJ(((food N3 (loss* or wast*)) or ((food* or grocer* or soup) N4 (donat* or pantr* or bank* or kitchen* or transfer*)) or (food* N4 near* N4 spoil*)))

5,993

S8 TI ((((food* or crop* or staple*) N3 (fortif* or biofortif*)) or ((recycl* or compost* or biodegrad* or plastic*) N3 (pack* or sache*)) or (post-harvest N4 (clean* or winnow* or cann* or mill* or thresh* or hull*)) or ((food* or crop* or grain*) N3 dry*))) OR SJ((((food* or crop* or staple*) N3 (fortif* or biofortif*)) or ((recycl* or compost* or biodegrad* or plastic*) N3 (pack* or sache*)) or (post-harvest N4 (clean* or winnow* or cann* or mill* or thresh* or hull*)) or ((food* or crop* or grain*) N3 dry*)))

4,431

S7 TI ((((grain* or crop* or agricultur* or farm* or produce) N4 (silo* or stor* or shed* or warehous*)) or ((agricultur* or farm*) N3 (collection or distribution) N3 (centre* or center* or point* or hub*)) or ((farm* or produce or food* or agricultur*) N4 ("cold chain*" or ((refrigerat* or cold) N3 (truck* or transport* or transit)))) or ((import or imports or importation or export*) N4 (tariff* or quota* or ban* or restrict* or regulat*)) or "trade agreement*")) OR SJ((((grain* or crop* or agricultur* or farm* or produce) N4 (silo* or stor* or shed* or warehous*)) or ((agricultur* or farm*) N3

(collection or distribution) N3 (centre* or center* or point* or hub*)) or ((farm* or produce or food* or agricultur*) N4 ("cold chain*" or ((refrigerat* or cold) N3 (truck* or transport* or transit)))) or ((import or imports or importation or export*) N4 (tariff* or quota* or ban* or restrict* or regulat*)) or "trade agreement*"))

7,170

S6 TI (((Food N3 (system or produc*)) or (agricultur* N3 produc*) or aquacultur* or fisher* or livestock* or ((kitchen or home*) N3 (farm* or garden*)) or "nutrition-sensitive" or (improv* N3 (seed* or variet* or crop*)) or (genetic* N3 modif* N3 (food* or organism*)) or GMO* or ((compost* or manure* or mulch* or fertili* or pesticid* or insecticid*) N3 (appl* or spray* or spread* or use or usage)) or ((drought* or pest* or insect*) N3 (toleran* or resist*)) or (rotat* N3 crop*) or (land N3 manage*) or "fixed distance planting" or (plant* N3 (row or rows*)) or ((farm* or crop or agricultur*) N4 subsid*) or (price* N4 purchas* N4 guarantee*) or ((agricultur* or crop* or rain* or weather or index) N4 insurance) or (irrigat* N4 (project* or program* or access* or improv*)) or "water meter*" or (rain* N3 (fed or feed*)) or (trench* N3 hill*) or hilling or "contour bund*" or zai or "water break" or terrac* or ((farm* or agricultur*) N3 (mechani?e* or mechani?ation*)) or intercrop* or (companion N3 (plant* or variet* or species)) or "integrated soil fertility management" or ISFM or (pest N3 manag*))) OR SJ(((Food N3 (system or produc*)) or (agricultur* N3 produc*) or aquacultur* or fisher* or livestock* or ((kitchen or home*) N3 (farm* or garden*)) or "nutrition-sensitive" or (improv* N3 (seed* or variet* or crop*)) or (genetic* N3 modif* N3 (food* or organism*)) or GMO* or ((compost* or manure* or mulch* or fertili* or pesticid* or insecticid*) N3 (appl* or spray* or spread* or use or usage)) or ((drought* or pest* or insect*) N3 (toleran* or resist*)) or (rotat* N3 crop*) or (land N3 manage*) or "fixed distance planting" or (plant* N3 (row or rows*)) or ((farm* or crop or agricultur*) N4 subsid*) or (price* N4 purchas* N4 guarantee*) or ((agricultur* or crop* or rain* or weather or index) N4 insurance) or (irrigat* N4 (project* or program* or access* or improv*)) or "water meter*" or (rain* N3 (fed or feed*)) or (trench* N3 hill*) or hilling or "contour bund*" or zai or "water break" or terrac* or ((farm* or agricultur*) N3 (mechani?e* or mechani?ation*)) or intercrop* or (companion N3 (plant* or variet* or species)) or "integrated soil fertility management" or ISFM or (pest N3 manag*)))

386,595

S5 TI (("farm* field school*" or (farm* N3 (train* or (build N3 capacity))) or "demonstration plot*" or ((agricultur* or rural) N1 extension) or (farm* N3 educat*) or (farm* N3 (organi?ation* or group* or cooperative* or co-op* or club*)) or (("social protection" or microfinance or "micro finance" or microloan* or "micro loan*") N4 (farm* or smallholder* or agricultur*)))) OR SJ(("farm* field school*" or (farm* N3 (train* or (build N3 capacity))) or "demonstration plot*" or ((agricultur* or rural) N1 extension) or (farm* N3 educat*) or (farm* N3 (organi?ation* or group* or cooperative* or co-op* or club*)) or (("social protection" or microfinance or "micro finance" or microloan* or "micro loan*") N4 (farm* or smallholder* or agricultur*))))

4,674

S4 TI (((afghanistan OR albania OR algeria OR "american samoa" OR angola OR "antigua and barbuda" OR antigua OR barbuda OR argentina OR armenia OR armenian OR aruba OR azerbaijan OR bahrain OR bangladesh OR barbados OR belarus OR byelarus OR belorussia OR byelorussian OR belize OR "british honduras" OR benin OR dahomey OR bhutan OR bolivia OR "bosnia and herzegovina" OR bosnia OR herzegovina OR botswana OR bechuanaland OR brazil OR brasil OR bulgaria OR "burkina faso" OR "burkina fasso" OR "upper volta" OR burundi OR urundi OR "cabo verde" OR "cape verde" OR cambodia OR kampuchea OR "khmer republic" OR cameroon OR cameron OR cameroun OR "central african republic" OR "ubangi shari" OR chad OR chile OR china OR colombia OR comoros

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S3 S1 OR S2
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S2 TI (("systematic review" or "literature review")) OR AB (("systematic review" or "literature review")) OR SU (("systematic review" or "literature review")) OR SO (cochrane database of systematic reviews) Limiters - Publication Year: 2000-2020
48,181
S1 TI ((random* or experiment* or (match* N2 (propensity or coarsened or covariate)) or "propensity score" or ("difference in difference*" or "difference-in-difference*" or "differences in difference*" or "differences-in-difference*" or "double difference*") or ("quasi-experimental" or "quasi experimental" or "quasi-experiment" or "quasi experiment") or ((estimator or counterfactual) and evaluation*) or "instrumental variable*" or (IV N2 (estimation or approach)) or regression discontinuity or time series or segment* regression or (non N2 participant*) or ((control or comparison) N2 (group* or condition* or area* or intervention)))) OR AB ((random* or experiment* or (match* N2 (propensity or coarsened or covariate)) or "propensity score" or ("difference in difference*" or "difference-in-difference*" or "differences in difference*" or "differences-in-difference*" or "double difference*") or ("quasi-experimental" or "quasi experimental" or "quasi-experiment" or "quasi experiment") or ((estimator or counterfactual) and evaluation*) or "instrumental variable*" or (IV N2 (estimation or approach)) or regression discontinuity or time series or segment* regression or (non N2 participant*) or ((control or comparison) N2 (group* or condition* or area* or intervention)))) OR SU ((random* or experiment* or (match* N2 (propensity or coarsened or covariate)) or "propensity score" or ("difference in difference*" or "difference-in-difference*" or "differences in difference*" or "differences-in-difference*" or "double difference*") or ("quasi-experimental" or "quasi experimental" or "quasi-experiment" or "quasi experiment") or ((estimator or counterfactual) and evaluation*) or "instrumental variable*" or (IV N2 (estimation or approach)) or regression discontinuity or time series or segment* regression or (non N2 participant*) or ((control or comparison) N2 (group* or condition* or area* or intervention)))) Limiters - Publication Year: 2000-2020
1,275,294

Scopus – Searched 27th May 2020

(TITLE-ABS(afghanistan OR albania OR algeria OR "american samoa" OR angola OR "antigua and barbuda" OR antigua OR barbuda OR argentina OR armenia OR armenian OR aruba OR azerbaijan OR bahrain OR bangladesh OR barbados OR belarus OR byelarus OR belorussia OR byelorussian OR belize OR "british honduras" OR benin OR dahomey OR bhutan OR bolivia OR "bosnia and herzegovina" OR bosnia OR herzegovina OR botswana OR bechuanaland OR brazil OR brasil OR bulgaria OR "burkina faso" OR "burkina fasso" OR "upper volta" OR burundi OR urundi OR "cabo verde" OR "cape verde" OR cambodia OR kampuchea OR "khmer republic" OR cameroon OR cameron OR cameroun OR "central african republic" OR "ubangi shari" OR chad OR chile OR china OR colombia OR comoros OR "comoro islands" OR "iles comores" OR mayotte OR "democratic republic of the congo" OR "democratic republic congo" OR congo OR zaire OR "costa rica" OR "cote d'ivoire" OR "cote d' ivoire" OR "cote divoire" OR "cote d ivoire" OR "ivory coast" OR croatia OR cuba OR cyprus OR "czech republic" OR czechoslovakia OR djibouti OR "french somaliland" OR dominica OR "dominican republic" OR ecuador

OR egypt OR "united arab republic" OR "el salvador" OR "equatorial guinea" OR "spanish guinea" OR eritrea OR estonia OR eswatini OR swaziland OR ethiopia OR fiji OR gabon OR "gabonese republic" OR gambia OR "georgia (republic)" OR georgian OR ghana OR "gold coast" OR gibraltar OR greece OR grenada OR guam OR guatemala OR guinea OR "guinea bissau" OR guyana OR "british guiana" OR haiti OR hispaniola OR honduras OR hungary OR india OR indonesia OR timor OR iran OR iraq OR "isle of man" OR jamaica OR jordan OR kazakhstan OR kazakh OR kenya OR "democratic people's republic of korea" OR "republic of korea" OR "north korea" OR "south korea" OR korea OR kosovo OR kyrgyzstan OR kirghizia OR kirgizstan OR "kyrgyz republic" OR kirghiz OR laos OR "lao pdr" OR "lao people's democratic republic" OR latvia OR lebanon OR "lebanese republic" OR lesotho OR basutoland OR liberia OR libya OR "libyan arab jamahiriya" OR lithuania OR macau OR macao OR "macedonia (republic)" OR macedonia OR madagascar OR "malagasy republic" OR malawi OR nyasaland OR malaysia OR "malay federation" OR "malaya federation" OR maldives OR "indian ocean islands" OR "indian ocean" OR mali OR malta OR micronesia OR "federated states of micronesia" OR kiribati OR "marshall islands" OR nauru OR "northern mariana islands" OR palau OR tuvalu OR mauritania OR mauritius OR mexico OR moldova OR moldovian OR mongolia OR montenegro OR morocco OR ifni OR mozambique OR "portuguese east africa" OR myanmar OR burma OR namibia OR nepal OR "netherlands antilles" OR nicaragua OR niger OR nigeria OR oman OR muscat OR pakistan OR panama OR "papua new guinea" OR "new guinea" OR paraguay OR peru OR philippines OR philipines OR phillipines OR phillippines OR poland OR "polish people's republic" OR portugal OR "portuguese republic" OR "puerto rico" OR romania OR russia OR "russian federation" OR ussr OR "soviet union" OR "union of soviet socialist republics" OR rwanda OR ruanda OR samoa OR "pacific islands" OR polynesia OR "samoan islands" OR "navigator island" OR "navigator islands" OR "sao tome and principe" OR "saudi arabia" OR senegal OR serbia OR seychelles OR "sierra leone" OR slovakia OR "slovak republic" OR slovenia OR melanesia OR "solomon island" OR "solomon islands" OR "norfolk island" OR "norfolk islands" OR somalia OR "south africa" OR "south sudan" OR "sri lanka" OR ceylon OR "saint kitts and nevis" OR "st. kitts and nevis" OR "saint lucia" OR "st. lucia" OR "saint vincent and the grenadines" OR "saint vincent" OR "st. vincent" OR grenadines OR sudan OR suriname OR surinam OR "dutch guiana" OR "netherlands guiana" OR syria OR "syrian arab republic" OR tajikistan OR tadjikistan OR tadzhikistan OR tadzhik OR tanzania OR tanganyika OR thailand OR siam OR "timor leste" OR "east timor" OR togo OR "togolese republic" OR tonga OR "trinidad and tobago" OR trinidad OR tobago OR tunisia OR turkey OR "turkey (republic)" OR turkmenistan OR turkmen OR uganda OR ukraine OR uruguay OR uzbekistan OR uzbek OR vanuatu OR "new hebrides" OR venezuela OR vietnam OR "viet nam" OR "middle east" OR "west bank" OR gaza OR palestine OR yemen OR yugoslavia OR zambia OR zimbabwe OR "northern rhodesia" OR "global south" OR "africa south of the sahara" OR "sub-saharan africa" OR "subsaharan africa" OR "africa, central" OR "central africa" OR "africa, northern" OR "north africa" OR "northern africa" OR magreb OR maghrib OR sahara OR "africa, southern" OR "southern africa" OR "africa, eastern" OR "east africa" OR "eastern africa" OR "africa, western" OR "west africa" OR "western africa" OR "west indies" OR "indian ocean islands" OR caribbean OR "central america" OR "latin america" OR "south and central america" OR "south america" OR "asia, central" OR "central asia" OR "asia, northern" OR "north asia" OR "northern asia" OR "asia, southeastern" OR "southeastern asia" OR "south eastern asia" OR "southeast asia" OR "south east asia" OR "asia, western" OR "western asia" OR "europe, eastern" OR "east europe" OR "eastern europe" OR "developing country"

OR "developing countries" OR "developing nation*" OR "developing population*" OR "developing world" OR "less developed countr*" OR "less developed nation*" OR "less developed population*" OR "less developed world" OR "lesser developed countr*" OR "lesser developed nation*" OR "lesser developed population*" OR "lesser developed world" OR "under developed countr*" OR "under developed nation*" OR "under developed population*" OR "under developed world" OR "underdeveloped countr*" OR "underdeveloped nation*" OR "underdeveloped population*" OR "underdeveloped world" OR "middle income countr*" OR "middle income nation*" OR "middle income population*" OR "low income countr*" OR "low income nation*" OR "low income population*" OR "lower income countr*" OR "lower income nation*" OR "lower income population*" OR "underserved countr*" OR "underserved nation*" OR "underserved population*" OR "underserved world" OR "under served countr*" OR "under served nation*" OR "under served population*" OR "under served world" OR "deprived countr*" OR "deprived nation*" OR "deprived population*" OR "deprived world" OR "poor countr*" OR "poor nation*" OR "poor population*" OR "poor world" OR "poorer countr*" OR "poorer nation*" OR "poorer population*" OR "poorer world" OR "developing econom*" OR "less developed econom*" OR "lesser developed econom*" OR "under developed econom*" OR "underdeveloped econom*" OR "middle income econom*" OR "low income econom*" OR "lower income econom*" OR "low gdp" OR "low gnp" OR "low gross domestic" OR "low gross national" OR "lower gdp" OR "lower gnp" OR "lower gross domestic" OR "lower gross national" OR lmic OR lmics OR "third world" OR "lami countr*" OR "transitional countr*" OR "emerging econom*" OR "emerging nation*")) and (TITLE-ABS(random* or experiment* or (match* W/2 (propensity or coarsened or covariate)) or "propensity score" or ("difference in difference*" or "difference-in-difference*" or "differences in difference*" or "differences-in-difference*" or "double difference*") or ("quasi-experimental" or "quasi experimental" or "quasi-experiment" or "quasi experiment") or ((estimator or counterfactual) and evaluation*) or "instrumental variable*" or (IV W/2 (estimation or approach)) or "regression discontinuity" or "time series" or "segment* regression" or (non W/2 participant*) or ((control or comparison) W/2 (group* or condition* or area* or intervention or "systematic review" or "literature review")))) and ((TITLE-ABS(cook* or ((meal* or food*) W/3 prepar*) or (wom?n W/4 (food* or eat* or feed* or meal* or diet*) W/4 (empower* or deci*)) or ((food* or eat* or feed* or breastfeed* or "breast feed*" or meal* or diet* or "F&V") W/4 (inform* or educat* or promot* or campaign* or media or initiative* or (peer W/1 (counsel* or support)) or (community W/3 (meet* or class* or engag* or participat*)) or "door-to-door")))) or (TITLE-ABS(((food* W/3 (safe* or quality)) W/3 (regulat* or restrict* or polic* or law* or legislat* or inspect*)) or (food* W/3 certif*))) or (TITLE-ABS((food* W/4 ((advertis* or label* or market*) W/3 (ban* or restrict* or regulat* or polic* or law* or legislat*))) or ((supermarket or ((food* or grocer* or convenience or corner) W/1 (store* or market*))) W/4 (design* or redesign* or re-design* or layout* or innovat*)) or (front W/3 pack* W/3 label*))) or (TITLE-ABS(((food* or consumer*) W/4 (subsid* or "price control*")) or (food* W/4 (cash or "social assistance" or "social safety net" or voucher* or welfare)))) or (TITLE-ABS("food environment*" or (zoning and (food* W/3 (security or access*))) or ((sugar* or SSB or "unhealthy food*") W/3 tax*) or nudg* or ((food* or eat* or feed* or meal* or diet*) W/4 (deci* or ((cultur* or social) W/3 (norm* or preferen*)))) or "ration shop*" or "farmer* market*" or "food desert*" or ((food or grocer*) W/3 retail* W/3 (tax* or subsid* or incentiv*)) or (school* W/4 (meal* or feed* or food* or lunch*)))) or (TITLE-ABS((food W/3 (loss* or wast*)) or ((food* or grocer* or soup) W/4 (donat* or pantr* or bank* or kitchen* or transfer*)) or (food* W/4 near* W/4 spoil*))) or (TITLE-ABS(((food* or crop* or staple*) W/3 (fortif* or biofortif*)) or ((recycl* or compost* or biodegrad* or plastic*) W/3 (pack* or

sache*)) or (post-harvest W/4 (clean* or winnow* or cann* or mill* or thresh* or hull*)) or ((food* or crop* or grain*) W/3 dry*))) or (TITLE-ABS(((grain* or crop* or agricultur* or farm* or produce) W/4 (silo* or stor* or shed* or warehous*)) or ((agricultur* or farm*) W/3 (collection or distribution) W/3 (centre* or center* or point* or hub*)) or ((farm* or produce or food* or agricultur*) W/4 ("cold chain*" or ((refrigerat* or cold) W/3 (truck* or transport* or transit)))) or ((import or imports or importation or export*) W/4 (tariff* or quota* or ban* or restrict* or regulat*)) or "trade agreement*")) or (TITLE-ABS((food W/3 (system or produc*)) or (agricultur* W/3 produc*) or aquacultur* or fisher* or livestock* or ((kitchen or home*) W/3 (farm* or garden*)) or (nutrition W/3 sensitive) or (improv* W/3 (seed* or variet* or crop*)) or (genetic* W/1 modif* W/1 (food* or organism*)) or GMO* or ((compost* or manure* or mulch* or fertili* or pesticid* or insecticid*) W/3 (appl* or spray* or spread* or use or usage)) or ((drought* or pest* or insect*) W/3 (toleran* or resist*)) or (rotat* W/3 crop*) or (land W/3 manage*) or "fixed distance planting" or (plant* W/3 row?) or ((farm* or crop or agricultur*) W/4 subsid*) or (price* W/4 purchas* W/4 guarantee*) or ((agricultur* or crop* or rain* or weather or index) W/4 insurance) or (irrigat* W/4 (project* or program* or access* or improv*)) or "water meter*" or (rain* W/3 (fed or feed*)) or (trench* W/3 hill*) or hilling or "contour bund*" or zai or "water break" or terrac* or ((farm* or agricultur*) W/3 (mechani?e* or mechani?ation*)) or intercrop* or (companion W/3 (plant* or variet* or species)) or "integrated soil fertility management" or ISFM or (pest W/3 manage*))) or (TITLE-ABS("farm* field school*" or (farm* W/3 (train* or (build W/3 capacity))) or "demonstration plot*" or ((agricultur* or rural) W/1 extension) or (farm* W/3 educat*) or (farm* W/3 (organi?ation* or group* or cooperative* or co-op* or club*)) or (("social protection" or microfinance or "micro finance" or microloan* or "micro loan*") W/4 (farm* or smallholder* or agricultur*)))))) AND (LIMIT-TO (PUBYEAR,2020) OR LIMIT-TO (PUBYEAR,2019) OR LIMIT-TO (PUBYEAR,2018) OR LIMIT-TO (PUBYEAR,2017) OR LIMIT-TO (PUBYEAR,2016) OR LIMIT-TO (PUBYEAR,2015) OR LIMIT-TO (PUBYEAR,2014) OR LIMIT-TO (PUBYEAR,2013) OR LIMIT-TO (PUBYEAR,2012) OR LIMIT-TO (PUBYEAR,2011) OR LIMIT-TO (PUBYEAR,2010) OR LIMIT-TO (PUBYEAR,2009) OR LIMIT-TO (PUBYEAR,2008) OR LIMIT-TO (PUBYEAR,2007) OR LIMIT-TO (PUBYEAR,2006) OR LIMIT-TO (PUBYEAR,2005) OR LIMIT-TO (PUBYEAR,2004) OR LIMIT-TO (PUBYEAR,2003) OR LIMIT-TO (PUBYEAR,2002) OR LIMIT-TO (PUBYEAR,2001) OR LIMIT-TO (PUBYEAR,2000)) – **33959 hits**

Agricola (Ebsco) – Searched 26th May 2020

S16 S3 AND S4 AND S15 Limiters - Date Published: 20000101-20201231 **1,712**

S15 S5 OR S6 OR S7 OR S8 OR S9 OR S10 OR S11 OR S12 OR S13 OR 166,712

S14 TI ((cook* or ((meal* or food*) N3 prepar*) or (wom?n N4 (food* or eat* or feed* or meal* or diet*) N4 (empower* or deci*)) or ((food* or eat* or feed* or breastfeed* or "breast feed*" or meal* or diet* or "F&V") N4 (inform* or educat* or promot* or campaign* or media or initiative* or (peer W1 (counsel* or support)) or (community N3 (meet* or class* or engag* or participat*)) or "door-to-door")))) OR SJ((cook* or ((meal* or food*) N3 prepar*) or (wom?n N4 (food* or eat* or feed* or meal* or diet*) N4 (empower* or deci*)) or ((food* or eat* or feed* or breastfeed* or "breast feed*" or meal* or diet* or "F&V") N4 (inform* or educat* or promot* or campaign* or media or initiative* or (peer W1 (counsel* or support)) or (community N3 (meet* or class* or engag* or participat*)) or "door-to-door"))))

21,034
S13 TI ((((food* N3 (safe* or quality)) N3 (regulat* or restrict* or polic* or law* or legislat* or inspect*)) or (food* N3 certif*))) OR SJ ((((food* N3 (safe* or quality)) N3 (regulat* or restrict* or polic* or law* or legislat* or inspect*)) or (food* N3 certif*)))
605
S12 TI (((food* N4 ((advertis* or label* or market*) N3 (ban* or restrict* or regulat* or polic* or law* or legislat*))) or ((supermarket or ((food* or grocer* or convenience or corner) W1 (store* or market*))) N4 (design* or redesign* or re-design* or layout* or innovat*)) or (front N3 pack* N3 label*))) OR SJ (((food* N4 ((advertis* or label* or market*) N3 (ban* or restrict* or regulat* or polic* or law* or legislat*))) or ((supermarket or ((food* or grocer* or convenience or corner) W1 (store* or market*))) N4 (design* or redesign* or re-design* or layout* or innovat*)) or (front N3 pack* N3 label*)))
292
S11 TI ((((food* or consumer*) N4 (subsid* or "price control*")) or (food* N4 (cash or "social assistance" or "social safety net" or voucher* or welfare)))) OR SJ((((food* or consumer*) N4 (subsid* or "price control*")) or (food* N4 (cash or "social assistance" or "social safety net" or voucher* or welfare))))
361
S10 TI (("food environment*" or (zoning and (food* N3 (security or access*))) or ((sugar* or SSB or "unhealthy food*") N3 tax*) or nudg* or ((food* or eat* or feed* or meal* or diet*) N4 (deci* or ((cultur* or social) N3 (norm* or preferen*)))) or "ration shop*" or "farmer* market*" or "food desert*" or ((food or grocer*) N3 retail* N3 (tax* or subsid* or incentiv*)) or (school* N4 (meal* or feed* or food* or lunch*)))) OR SJ(("food environment*" or (zoning and (food* N3 (security or access*))) or ((sugar* or SSB or "unhealthy food*") N3 tax*) or nudg* or ((food* or eat* or feed* or meal* or diet*) N4 (deci* or ((cultur* or social) N3 (norm* or preferen*)))) or "ration shop*" or "farmer* market*" or "food desert*" or ((food or grocer*) N3 retail* N3 (tax* or subsid* or incentiv*)) or (school* N4 (meal* or feed* or food* or lunch*))))
3,937
S9 TI (((food N3 (loss* or wast*)) or ((food* or grocer* or soup) N4 (donat* or pantr* or bank* or kitchen* or transfer*)) or (food* N4 near* N4 spoil*))) OR SJ(((food N3 (loss* or wast*)) or ((food* or grocer* or soup) N4 (donat* or pantr* or bank* or kitchen* or transfer*)) or (food* N4 near* N4 spoil*)))
3,044
S8 TI ((((food* or crop* or staple*) N3 (fortif* or biofortif*)) or ((recycl* or compost* or biodegrad* or plastic*) N3 (pack* or sache*)) or (post-harvest N4 (clean* or winnow* or cann* or mill* or thresh* or hull*)) or ((food* or crop* or grain*) N3 dry*))) OR SJ((((food* or crop* or staple*) N3 (fortif* or biofortif*)) or ((recycl* or compost* or biodegrad* or plastic*) N3 (pack* or sache*)) or (post-harvest N4 (clean* or winnow* or cann* or mill* or thresh* or hull*)) or ((food* or crop* or grain*) N3 dry*)))
4,183
S7 TI ((((grain* or crop* or agricultur* or farm* or produce) N4 (silo* or stor* or shed* or warehous*)) or ((agricultur* or farm*) N3 (collection or distribution) N3 (centre* or center* or point* or hub*)) or ((farm* or produce or food* or agricultur*) N4 ("cold chain*" or ((refrigerat* or cold) N3 (truck* or transport* or transit)))) or ((import or imports or importation or export*) N4 (tariff* or quota* or ban* or restrict* or regulat*)) or "trade agreement*")) OR SJ((((grain* or crop* or agricultur* or farm* or produce) N4 (silo* or stor* or shed* or warehous*)) or ((agricultur* or farm*) N3 (collection or distribution) N3 (centre* or center* or point* or hub*)) or ((farm* or produce or food* or agricultur*) N4 ("cold chain*" or ((refrigerat* or cold) N3 (truck* or

transport* or transit)))) or ((import or imports or importation or export*) N4 (tariff* or quota* or ban* or restrict* or regulat*)) or "trade agreement*"))

6,214

S6 TI (((Food N3 (system or produc*)) or (agricultur* N3 produc*) or aquacultur* or fisher* or livestock* or ((kitchen or home*) N3 (farm* or garden*)) or "nutrition-sensitive" or (improv* N3 (seed* or variet* or crop*)) or (genetic* N3 modif* N3 (food* or organism*)) or GMO* or ((compost* or manure* or mulch* or fertili* or pesticid* or insecticid*) N3 (appl* or spray* or spread* or use or usage)) or ((drought* or pest* or insect*) N3 (toleran* or resist*)) or (rotat* N3 crop*) or (land N3 manage*) or "fixed distance planting" or (plant* N3 (row or rows*)) or ((farm* or crop or agricultur*) N4 subsid*) or (price* N4 purchas* N4 guarantee*) or ((agricultur* or crop* or rain* or weather or index) N4 insurance) or (irrigat* N4 (project* or program* or access* or improv*)) or "water meter*" or (rain* N3 (fed or feed*)) or (trench* N3 hill*) or hilling or "contour bund*" or zai or "water break" or terrac* or ((farm* or agricultur*) N3 (mechani?e* or mechani?ation*)) or intercrop* or (companion N3 (plant* or variet* or species)) or "integrated soil fertility management" or ISFM or (pest N3 manag*))) OR SJ(((Food N3 (system or produc*)) or (agricultur* N3 produc*) or aquacultur* or fisher* or livestock* or ((kitchen or home*) N3 (farm* or garden*)) or "nutrition-sensitive" or (improv* N3 (seed* or variet* or crop*)) or (genetic* N3 modif* N3 (food* or organism*)) or GMO* or ((compost* or manure* or mulch* or fertili* or pesticid* or insecticid*) N3 (appl* or spray* or spread* or use or usage)) or ((drought* or pest* or insect*) N3 (toleran* or resist*)) or (rotat* N3 crop*) or (land N3 manage*) or "fixed distance planting" or (plant* N3 (row or rows*)) or ((farm* or crop or agricultur*) N4 subsid*) or (price* N4 purchas* N4 guarantee*) or ((agricultur* or crop* or rain* or weather or index) N4 insurance) or (irrigat* N4 (project* or program* or access* or improv*)) or "water meter*" or (rain* N3 (fed or feed*)) or (trench* N3 hill*) or hilling or "contour bund*" or zai or "water break" or terrac* or ((farm* or agricultur*) N3 (mechani?e* or mechani?ation*)) or intercrop* or (companion N3 (plant* or variet* or species)) or "integrated soil fertility management" or ISFM or (pest N3 manag*)))

122,856

S5 TI (("farm* field school*" or (farm* N3 (train* or (build N3 capacity))) or "demonstration plot*" or ((agricultur* or rural) N1 extension) or (farm* N3 educat*) or (farm* N3 (organi?ation* or group* or cooperative* or co-op* or club*)) or (("social protection" or microfinance or "micro finance" or microloan* or "micro loan*") N4 (farm* or smallholder* or agricultur*)))) OR SJ(("farm* field school*" or (farm* N3 (train* or (build N3 capacity))) or "demonstration plot*" or ((agricultur* or rural) N1 extension) or (farm* N3 educat*) or (farm* N3 (organi?ation* or group* or cooperative* or co-op* or club*)) or (("social protection" or microfinance or "micro finance" or microloan* or "micro loan*") N4 (farm* or smallholder* or agricultur*))))

7,058

S4 TI (((afghanistan OR albania OR algeria OR "american samoa" OR angola OR "antigua and barbuda" OR antigua OR barbuda OR argentina OR armenia OR armenian OR aruba OR azerbaijan OR bahrain OR bangladesh OR barbados OR belarus OR byelarus OR belorussia OR byelorussian OR belize OR "british honduras" OR benin OR dahomey OR bhutan OR bolivia OR "bosnia and herzegovina" OR bosnia OR herzegovina OR botswana OR bechuanaland OR brazil OR brasil OR bulgaria OR "burkina faso" OR "burkina fasso" OR "upper volta" OR burundi OR urundi OR "cabo verde" OR "cape verde" OR cambodia OR kampuchea OR "khmer republic" OR cameroon OR cameron OR cameroun OR "central african republic" OR "ubangi shari" OR chad OR chile OR china OR colombia OR comoros OR "comoro islands" OR "iles comores" OR mayotte OR "democratic republic of the congo" OR "democratic republic congo" OR congo OR zaire OR "costa rica" OR

"cote d'ivoire" OR "cote d' ivoire" OR "cote divoire" OR "cote d ivoire" OR "ivory coast" OR croatia OR cuba OR cyprus OR "czech republic" OR czechoslovakia OR djibouti OR "french somaliland" OR dominica OR "dominican republic" OR ecuador OR egypt OR "united arab republic" OR "el salvador" OR "equatorial guinea" OR "spanish guinea" OR eritrea OR estonia OR eswatini OR swaziland OR ethiopia OR fiji OR gabon OR "gabonese republic" OR gambia OR "georgia (republic)" OR georgian OR ghana OR "gold coast" OR gibraltar OR greece OR grenada OR guam OR guatemala OR guinea OR "guinea bissau" OR guyana OR "british guiana" OR haiti OR hispaniola OR honduras OR hungary OR india OR indonesia OR timor OR iran OR iraq OR "isle of man" OR jamaica OR jordan OR kazakhstan OR kazakh OR kenya OR "democratic people's republic of korea" OR "republic of korea" OR "north korea" OR "south korea" OR korea OR kosovo OR kyrgyzstan OR kirghizia OR kirgizstan OR "kyrgyz republic" OR kirghiz OR laos OR "lao pdr" OR "lao people's democratic republic" OR latvia OR lebanon OR "lebanese republic" OR lesotho OR basutoland OR liberia OR libya OR "libyan arab jamahiriya" OR lithuania OR macau OR macao OR "macedonia (republic)" OR macedonia OR madagascar OR "malagasy republic" OR malawi OR nyasaland OR malaysia OR "malay federation" OR "malaya federation" OR maldives OR "indian ocean islands" OR "indian ocean" OR mali OR malta OR micronesia OR "federated states of micronesia" OR kiribati OR "marshall islands" OR nauru OR "northern mariana islands" OR palau OR tuvalu OR mauritania OR mauritius OR mexico OR moldova OR moldovian OR mongolia OR montenegro OR morocco OR ifni OR mozambique OR "portuguese east africa" OR myanmar OR burma OR namibia OR nepal OR "netherlands antilles" OR nicaragua OR niger OR nigeria OR oman OR muscat OR pakistan OR panama OR "papua new guinea" OR "new guinea" OR paraguay OR peru OR philippines OR philipines OR phillipines OR phillippines OR poland OR "polish people's republic" OR portugal OR "portuguese republic" OR "puerto rico" OR romania OR russia OR "russian federation" OR ussr OR "soviet union" OR "union of soviet socialist republics" OR rwanda OR ruanda OR samoa OR "pacific islands" OR polynesia OR "samoan islands" OR "navigator island" OR "navigator islands" OR "sao tome and principe" OR "saudi arabia" OR senegal OR serbia OR seychelles OR "sierra leone" OR slovakia OR "slovak republic" OR slovenia OR melanesia OR "solomon island" OR "solomon islands" OR "norfolk island" OR "norfolk islands" OR somalia OR "south africa" OR "south sudan" OR "sri lanka" OR ceylon OR "saint kitts and nevis" OR "st. kitts and nevis" OR "saint lucia" OR "st. lucia" OR "saint vincent and the grenadines" OR "saint vincent" OR "st. vincent" OR grenadines OR sudan OR suriname OR surinam OR "dutch guiana" OR "netherlands guiana" OR syria OR "syrian arab republic" OR tajikistan OR tadjikistan OR tadzhikistan OR tadzhik OR tanzania OR tanganyika OR thailand OR siam OR "timor leste" OR "east timor" OR togo OR "togolese republic" OR tonga OR "trinidad and tobago" OR trinidad OR tobago OR tunisia OR turkey OR "turkey (republic)" OR turkmenistan OR turkmen OR uganda OR ukraine OR uruguay OR uzbekistan OR uzbek OR vanuatu OR "new hebrides" OR venezuela OR vietnam OR "viet nam" OR "middle east" OR "west bank" OR gaza OR palestine OR yemen OR yugoslavia OR zambia OR zimbabwe OR "northern rhodesia" OR "global south" OR "africa south of the sahara" OR "sub-saharan africa" OR "subsaharan africa" OR "africa, central" OR "central africa" OR "africa, northern" OR "north africa" OR "northern africa" OR magreb OR maghrib OR sahara OR "africa, southern" OR "southern africa" OR "africa, eastern" OR "east africa" OR "eastern africa" OR "africa, western" OR "west africa" OR "western africa" OR "west indies" OR "indian ocean islands" OR caribbean OR "central america" OR "latin america" OR "south and central america" OR "south america" OR "asia, central" OR "central asia" OR "asia, northern" OR "north asia" OR "northern asia"

OR "asia, southeastern" OR "southeastern asia" OR "south eastern asia" OR "southeast asia" OR "south east asia" OR "asia, western" OR "western asia" OR "europe, eastern" OR "east europe" OR "eastern europe" OR "developing country" OR "developing countries" OR "developing nation*" OR "developing population*" OR "developing world" OR "less developed countr*" OR "less developed nation*" OR "less developed population*" OR "less developed world" OR "lesser developed countr*" OR "lesser developed nation*" OR "lesser developed population*" OR "lesser developed world" OR "under developed countr*" OR "under developed nation*" OR "under developed population*" OR "under developed world" OR "underdeveloped countr*" OR "underdeveloped nation*" OR "underdeveloped population*" OR "underdeveloped world" OR "middle income countr*" OR "middle income nation*" OR "middle income population*" OR "low income countr*" OR "low income nation*" OR "low income population*" OR "lower income countr*" OR "lower income nation*" OR "lower income population*" OR "underserved countr*" OR "underserved nation*" OR "underserved population*" OR "underserved world" OR "under served countr*" OR "under served nation*" OR "under served population*" OR "under served world" OR "deprived countr*" OR "deprived nation*" OR "deprived population*" OR "deprived world" OR "poor countr*" OR "poor nation*" OR "poor population*" OR "poor world" OR "poorer countr*" OR "poorer nation*" OR "poorer population*" OR "poorer world" OR "developing econom*" OR "less developed econom*" OR "lesser developed econom*" OR "under developed econom*" OR "underdeveloped econom*" OR "middle income econom*" OR "low income econom*" OR "lower income econom*" OR "low gdp" OR "low gnp" OR "low gross domestic" OR "low gross national" OR "lower gdp" OR "lower gnp" OR "lower gross domestic" OR "lower gross national" OR lmic OR lmics OR "third world" OR "lami countr*" OR "transitional countr*" OR "emerging econom*" OR "emerging nation*"))) OR AB (((afghanistan OR albania OR algeria OR "american samoa" OR angola OR "antigua and barbuda" OR antigua OR barbuda OR argentina OR armenia OR armenian OR aruba OR azerbaijan OR bahrain OR bangladesh OR barbados OR belarus OR byelarus OR belorussia OR byelorussian OR belize OR "british honduras" OR benin OR dahomey OR bhutan OR bolivia OR "bosnia and herzegovina" OR bosnia OR herzegovina OR botswana OR bechuanaland OR brazil OR brasil OR bulgaria OR "burkina faso" OR "burkina fasso" OR "upper volta" OR burundi OR urundi OR "cabo verde" OR "cape verde" OR cambodia OR kampuchea OR "khmer republic" OR cameroon OR cameron OR cameroun OR "central african republic" OR "ubangi shari" OR chad OR chile OR china OR colombia OR comoros OR "comoro islands" OR "iles comores" OR mayotte OR "democratic republic of the congo" OR "democratic republic congo" OR congo OR zaire OR "costa rica" OR "cote d'ivoire" OR "cote d' ivoire" OR "cote divoire" OR "cote d ivoire" OR "ivory coast" OR croatia OR cuba OR cyprus OR "czech republic" OR czechoslovakia OR djibouti OR "french somaliland" OR dominica OR "dominican republic" OR ecuador OR egypt OR "united arab republic" OR "el salvador" OR "equatorial guinea" OR "spanish guinea" OR eritrea OR estonia OR eswatini OR swaziland OR ethiopia OR fiji OR gabon OR "gabonese republic" OR gambia OR "georgia (republic)" OR georgian OR ghana OR "gold coast" OR gibraltar OR greece OR grenada OR guam OR guatemala OR guinea OR "guinea bissau" OR guyana OR "british guiana" OR haiti OR hispaniola OR honduras OR hungary OR india OR indonesia OR timor OR iran OR iraq OR "isle of man" OR jamaica OR jordan OR kazakhstan OR kazakh OR kenya OR "democratic people's republic of korea" OR "republic of korea" OR "north korea" OR "south korea" OR korea OR kosovo OR kyrgyzstan OR kirghizia OR kirgizstan OR "kyrgyz republic" OR kirghiz OR laos OR "lao pdr" OR "lao people's democratic republic" OR latvia OR lebanon OR "lebanese republic" OR lesotho OR basutoland

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"underserved nation*" OR "underserved population*" OR "underserved world" OR "under served countr*" OR "under served nation*" OR "under served population*" OR "under served world" OR "deprived countr*" OR "deprived nation*" OR "deprived population*" OR "deprived world" OR "poor countr*" OR "poor nation*" OR "poor population*" OR "poor world" OR "poorer countr*" OR "poorer nation*" OR "poorer population*" OR "poorer world" OR "developing econom*" OR "less developed econom*" OR "lesser developed econom*" OR "under developed econom*" OR "underdeveloped econom*" OR "middle income econom*" OR "low income econom*" OR "lower income econom*" OR "low gdp" OR "low gnp" OR "low gross domestic" OR "low gross national" OR "lower gdp" OR "lower gnp" OR "lower gross domestic" OR "lower gross national" OR lmic OR lmics OR "third world" OR "lami countr*" OR "transitional countr*" OR "emerging econom*" OR "emerging nation*"))) OR GL (((afghanistan OR albania OR algeria OR "american samoa" OR angola OR "antigua and barbuda" OR antigua OR barbuda OR argentina OR armenia OR armenian OR aruba OR azerbaijan OR bahrain OR bangladesh OR barbados OR belarus OR byelarus OR belorussia OR byelorussian OR belize OR "british honduras" OR benin OR dahomey OR bhutan OR bolivia OR "bosnia and herzegovina" OR bosnia OR herzegovina OR botswana OR bechuanaland OR brazil OR brasil OR bulgaria OR "burkina faso" OR "burkina fasso" OR "upper volta" OR burundi OR urundi OR "cabo verde" OR "cape verde" OR cambodia OR kampuchea OR "khmer republic" OR cameroon OR cameron OR cameroun OR "central african republic" OR "ubangi shari" OR chad OR chile OR china OR colombia OR comoros OR "comoro islands" OR "iles comores" OR mayotte OR "democratic republic of the congo" OR "democratic republic congo" OR congo OR zaire OR "costa rica" OR "cote d'ivoire" OR "cote d' ivoire" OR "cote divoire" OR "cote d ivoire" OR "ivory coast" OR croatia OR cuba OR cyprus OR "czech republic" OR czechoslovakia OR djibouti OR "french somaliland" OR dominica OR "dominican republic" OR ecuador OR egypt OR "united arab republic" OR "el salvador" OR "equatorial guinea" OR "spanish guinea" OR eritrea OR estonia OR eswatini OR swaziland OR ethiopia OR fiji OR gabon OR "gabonese republic" OR gambia OR "georgia (republic)" OR georgian OR ghana OR "gold coast" OR gibraltar OR greece OR grenada OR guam OR guatemala OR guinea OR "guinea bissau" OR guyana OR "british guiana" OR haiti OR hispaniola OR honduras OR hungary OR india OR indonesia OR timor OR iran OR iraq OR "isle of man" OR jamaica OR jordan OR kazakhstan OR kazakh OR kenya OR "democratic people's republic of korea" OR "republic of korea" OR "north korea" OR "south korea" OR korea OR kosovo OR kyrgyzstan OR kirghizia OR kirgizstan OR "kyrgyz republic" OR kirghiz OR laos OR "lao pdr" OR "lao people's democratic republic" OR latvia OR lebanon OR "lebanese republic" OR lesotho OR basutoland OR liberia OR libya OR "libyan arab jamahiriya" OR lithuania OR macau OR macao OR "macedonia (republic)" OR macedonia OR madagascar OR "malagasy republic" OR malawi OR nyasaland OR malaysia OR "malay federation" OR "malaya federation" OR maldives OR "indian ocean islands" OR "indian ocean" OR mali OR malta OR micronesia OR "federated states of micronesia" OR kiribati OR "marshall islands" OR nauru OR "northern mariana islands" OR palau OR tuvalu OR mauritania OR mauritius OR mexico OR moldova OR moldovian OR mongolia OR montenegro OR morocco OR ifni OR mozambique OR "portuguese east africa" OR myanmar OR burma OR namibia OR nepal OR "netherlands antilles" OR nicaragua OR niger OR nigeria OR oman OR muscat OR pakistan OR panama OR "papua new guinea" OR "new guinea" OR paraguay OR peru OR philippines OR philipines OR phillipines OR phillippines OR poland OR "polish people's republic" OR portugal OR "portuguese republic" OR "puerto rico" OR romania OR russia OR "russian federation" OR ussr OR "soviet union" OR "union of soviet socialist republics" OR

rwanda OR ruanda OR samoa OR "pacific islands" OR polynesia OR "samoan islands" OR "navigator island" OR "navigator islands" OR "sao tome and principe" OR "saudi arabia" OR senegal OR serbia OR seychelles OR "sierra leone" OR slovakia OR "slovak republic" OR slovenia OR melanesia OR "solomon island" OR "solomon islands" OR "norfolk island" OR "norfolk islands" OR somalia OR "south africa" OR "south sudan" OR "sri lanka" OR ceylon OR "saint kitts and nevis" OR "st. kitts and nevis" OR "saint lucia" OR "st. lucia" OR "saint vincent and the grenadines" OR "saint vincent" OR "st. vincent" OR grenadines OR sudan OR suriname OR surinam OR "dutch guiana" OR "netherlands guiana" OR syria OR "syrian arab republic" OR tajikistan OR tadjikistan OR tadzhikistan OR tadzhik OR tanzania OR tanganyika OR thailand OR siam OR "timor leste" OR "east timor" OR togo OR "togolese republic" OR tonga OR "trinidad and tobago" OR trinidad OR tobago OR tunisia OR turkey OR "turkey (republic)" OR turkmenistan OR turkmen OR uganda OR ukraine OR uruguay OR uzbekistan OR uzbek OR vanuatu OR "new hebrides" OR venezuela OR vietnam OR "viet nam" OR "middle east" OR "west bank" OR gaza OR palestine OR yemen OR yugoslavia OR zambia OR zimbabwe OR "northern rhodesia" OR "global south" OR "africa south of the sahara" OR "sub-saharan africa" OR "subsaharan africa" OR "africa, central" OR "central africa" OR "africa, northern" OR "north africa" OR "northern africa" OR magreb OR maghrib OR sahara OR "africa, southern" OR "southern africa" OR "africa, eastern" OR "east africa" OR "eastern africa" OR "africa, western" OR "west africa" OR "western africa" OR "west indies" OR "indian ocean islands" OR caribbean OR "central america" OR "latin america" OR "south and central america" OR "south america" OR "asia, central" OR "central asia" OR "asia, northern" OR "north asia" OR "northern asia" OR "asia, southeastern" OR "southeastern asia" OR "south eastern asia" OR "southeast asia" OR "south east asia" OR "asia, western" OR "western asia" OR "europe, eastern" OR "east europe" OR "eastern europe" OR "developing country" OR "developing countries" OR "developing nation*" OR "developing population*" OR "developing world" OR "less developed countr*" OR "less developed nation*" OR "less developed population*" OR "less developed world" OR "lesser developed countr*" OR "lesser developed nation*" OR "lesser developed population*" OR "lesser developed world" OR "under developed countr*" OR "under developed nation*" OR "under developed population*" OR "under developed world" OR "underdeveloped countr*" OR "underdeveloped nation*" OR "underdeveloped population*" OR "underdeveloped world" OR "middle income countr*" OR "middle income nation*" OR "middle income population*" OR "low income countr*" OR "low income nation*" OR "low income population*" OR "lower income countr*" OR "lower income nation*" OR "lower income population*" OR "underserved countr*" OR "underserved nation*" OR "underserved population*" OR "underserved world" OR "under served countr*" OR "under served nation*" OR "under served population*" OR "under served world" OR "deprived countr*" OR "deprived nation*" OR "deprived population*" OR "deprived world" OR "poor countr*" OR "poor nation*" OR "poor population*" OR "poor world" OR "poorer countr*" OR "poorer nation*" OR "poorer population*" OR "poorer world" OR "developing econom*" OR "less developed econom*" OR "lesser developed econom*" OR "under developed econom*" OR "underdeveloped econom*" OR "middle income econom*" OR "low income econom*" OR "lower income econom*" OR "low gdp" OR "low gnp" OR "low gross domestic" OR "low gross national" OR "lower gdp" OR "lower gnp" OR "lower gross domestic" OR "lower gross national" OR lmic OR lmics OR "third world" OR "lami countr*" OR "transitional countr*" OR "emerging econom*" OR "emerging nation*")))

591,723

S3 S1 OR S2

540,906
S2 TI (("systematic review" or "literature review")) OR AB (("systematic review" or "literature review")) OR SU (("systematic review" or "literature review")) OR SO (cochrane database of systematic reviews)
9,240
S1 TI ((random* or experiment* or (match* N2 (propensity or coarsened or covariate)) or "propensity score" or ("difference in difference*" or "difference-in-difference*" or "differences in difference*" or "differences-in-difference*" or "double difference*") or ("quasi-experimental" or "quasi experimental" or "quasi-experiment" or "quasi experiment") or ((estimator or counterfactual) and evaluation*) or "instrumental variable*" or (IV N2 (estimation or approach)) or regression discontinuity or time series or segment* regression or (non N2 participant*) or ((control or comparison) N2 (group* or condition* or area* or intervention)))) OR AB ((random* or experiment* or (match* N2 (propensity or coarsened or covariate)) or "propensity score" or ("difference in difference*" or "difference-in-difference*" or "differences in difference*" or "differences-in-difference*" or "double difference*") or ("quasi-experimental" or "quasi experimental" or "quasi-experiment" or "quasi experiment") or ((estimator or counterfactual) and evaluation*) or "instrumental variable*" or (IV N2 (estimation or approach)) or regression discontinuity or time series or segment* regression or (non N2 participant*) or ((control or comparison) N2 (group* or condition* or area* or intervention)))) OR SU ((random* or experiment* or (match* N2 (propensity or coarsened or covariate)) or "propensity score" or ("difference in difference*" or "difference-in-difference*" or "differences in difference*" or "differences-in-difference*" or "double difference*") or ("quasi-experimental" or "quasi experimental" or "quasi-experiment" or "quasi experiment") or ((estimator or counterfactual) and evaluation*) or "instrumental variable*" or (IV N2 (estimation or approach)) or regression discontinuity or time series or segment* regression or (non N2 participant*) or ((control or comparison) N2 (group* or condition* or area* or intervention))))
533,962

Africa-Wide (Ebsco) – Searched 26th May 2020

S16 S1 AND S12 AND S15
Database - Africa-Wide Information **4,338**
S15 S13 OR S14
205,244
S14 TI (("systematic review" or "literature review")) OR AB (("systematic review" or "literature review")) OR SU (("systematic review" or "literature review")) OR SO (cochrane database of systematic reviews)
16,498
S13 TI ((random* or experiment* or (match* N2 (propensity or coarsened or covariate)) or "propensity score" or ("difference in difference*" or "difference-in-difference*" or "differences in difference*" or "differences-in-difference*" or "double difference*") or ("quasi-experimental" or "quasi experimental" or "quasi-experiment" or "quasi experiment") or ((estimator or counterfactual) and evaluation*) or "instrumental variable*" or (IV N2 (estimation or approach)) or regression discontinuity or time series or segment* regression or (non N2 participant*) or ((control or comparison) N2 (group* or condition* or area* or intervention)))) OR AB ((random* or experiment* or (match* N2 (propensity or coarsened or covariate)) or

"propensity score" or ("difference in difference*" or "difference-in-difference*" or "differences in difference*" or "differences-in-difference*" or "double difference*") or ("quasi-experimental" or "quasi experimental" or "quasi-experiment" or "quasi experiment") or ((estimator or counterfactual) and evaluation*) or "instrumental variable*" or (IV N2 (estimation or approach)) or regression discontinuity or time series or segment* regression or (non N2 participant*) or ((control or comparison) N2 (group* or condition* or area* or intervention)))) OR SU ((random* or experiment* or (match* N2 (propensity or coarsened or covariate)) or "propensity score" or ("difference in difference*" or "difference-in-difference*" or "differences in difference*" or "differences-in-difference*" or "double difference*") or ("quasi-experimental" or "quasi experimental" or "quasi-experiment" or "quasi experiment") or ((estimator or counterfactual) and evaluation*) or "instrumental variable*" or (IV N2 (estimation or approach)) or regression discontinuity or time series or segment* regression or (non N2 participant*) or ((control or comparison) N2 (group* or condition* or area* or intervention))))

193,261

S12 S2 OR S3 OR S4 OR S5 OR S6 OR S7 OR S8 OR S9 OR S10 OR S11

100,603

S11 TI (("farm* field school*" or (farm* N3 (train* or (build N3 capacity))) or "demonstration plot*" or ((agricultur* or rural) N1 extension) or (farm* N3 educat*) or (farm* N3 (organi?ation* or group* or cooperative* or co-op* or club*)) or (("social protection" or microfinance or "micro finance" or microloan* or "micro loan*") N4 (farm* or smallholder* or agricultur*)))) OR SU(("farm* field school*" or (farm* N3 (train* or (build N3 capacity))) or "demonstration plot*" or ((agricultur* or rural) N1 extension) or (farm* N3 educat*) or (farm* N3 (organi?ation* or group* or cooperative* or co-op* or club*)) or (("social protection" or microfinance or "micro finance" or microloan* or "micro loan*") N4 (farm* or smallholder* or agricultur*))))

3,274

S10 TI ((cook* or ((meal* or food*) N3 prepar*) or (wom?n N4 (food* or eat* or feed* or meal* or diet*) N4 (empower* or deci*)) or ((food* or eat* or feed* or breastfeed* or "breast feed*" or meal* or diet* or "F&V") N4 (inform* or educat* or promot* or campaign* or media or initiative* or (peer N1 (counsel* or support)) or (community N3 (meet* or class* or engag* or participat*)) or "door-to-door")))) OR SU((cook* or ((meal* or food*) N3 prepar*) or (wom?n N4 (food* or eat* or feed* or meal* or diet*) N4 (empower* or deci*)) or ((food* or eat* or feed* or breastfeed* or "breast feed*" or meal* or diet* or "F&V") N4 (inform* or educat* or promot* or campaign* or media or initiative* or (peer N1 (counsel* or support)) or (community N3 (meet* or class* or engag* or participat*)) or "door-to-door"))))

8,084

S9 TI ((((food* N3 (safe* or quality)) N3 (regulat* or restrict* or polic* or law* or legislat* or inspect*)) or (food* N3 certif*))) OR SU((((food* N3 (safe* or quality)) N3 (regulat* or restrict* or polic* or law* or legislat* or inspect*)) or (food* N3 certif*))

86

S8 TI (((food* N4 ((advertis* or label* or market*) N3 (ban* or restrict* or regulat* or polic* or law* or legislat*))) or ((supermarket or ((food* or grocer* or convenience or corner) N1 (store* or market*))) N4 (design* or redesign* or re-design* or layout* or innovat*)) or (front N3 pack* N3 label*))) OR SU(((food* N4 ((advertis* or label* or market*) N3 (ban* or restrict* or regulat* or polic* or law* or legislat*))) or ((supermarket or ((food* or grocer* or convenience or corner) N1 (store* or market*))) N4 (design* or redesign* or re-design* or layout* or innovat*)) or (front N3 pack* N3 label*)))

98

S7 TI ((((food* or consumer*) N4 (subsid* or "price control*")) or (food* N4 (cash or "social assistance" or "social safety net" or voucher* or welfare)))) OR SU((((food* or consumer*) N4 (subsid* or "price control*")) or (food* N4 (cash or "social assistance" or "social safety net" or voucher* or welfare))))

193

S6 TI (("food environment*" or (zoning and (food* N3 (security or access*))) or ((sugar* or SSB or "unhealthy food*") N3 tax*) or nudg* or ((food* or eat* or feed* or meal* or diet*) N4 (deci* or ((cultur* or social) N3 (norm* or preferen*)))) or "ration shop*" or "farmer* market*" or "food desert*" or ((food or grocer*) N3 retail* N3 (tax* or subsid* or incentiv*)) or (school* N4 (meal* or feed* or food* or lunch*)))) OR SU(("food environment*" or (zoning and (food* N3 (security or access*))) or ((sugar* or SSB or "unhealthy food*") N3 tax*) or nudg* or ((food* or eat* or feed* or meal* or diet*) N4 (deci* or ((cultur* or social) N3 (norm* or preferen*)))) or "ration shop*" or "farmer* market*" or "food desert*" or ((food or grocer*) N3 retail* N3 (tax* or subsid* or incentiv*)) or (school* N4 (meal* or feed* or food* or lunch*))))

713

S5 TI (((food N3 (loss* or wast*)) or ((food* or grocer* or soup) N4 (donat* or pantr* or bank* or kitchen* or transfer*)) or (food* N4 near* N4 spoil*))) OR SU(((food N3 (loss* or wast*)) or ((food* or grocer* or soup) N4 (donat* or pantr* or bank* or kitchen* or transfer*)) or (food* N4 near* N4 spoil*)))

521

S4 TI ((((food* or crop* or staple*) N3 (fortif* or biofortif*)) or ((recycl* or compost* or biodegrad* or plastic*) N3 (pack* or sache*)) or (post-harvest N4 (clean* or winnow* or cann* or mill* or thresh* or hull*)) or ((food* or crop* or grain*) N3 dry*))) OR SU((((food* or crop* or staple*) N3 (fortif* or biofortif*)) or ((recycl* or compost* or biodegrad* or plastic*) N3 (pack* or sache*)) or (post-harvest N4 (clean* or winnow* or cann* or mill* or thresh* or hull*)) or ((food* or crop* or grain*) N3 dry*)))

1,322

S3 TI ((((grain* or crop* or agricultur* or farm* or produce) N4 (silo* or stor* or shed* or warehous*)) or ((agricultur* or farm*) N3 (collection or distribution) N3 (centre* or center* or point* or hub*)) or ((farm* or produce or food* or agricultur*) N4 ("cold chain*" or ((refrigerat* or cold) N3 (truck* or transport* or transit)))) or ((import or imports or importation or export*) N4 (tariff* or quota* or ban* or restrict* or regulat*)) or "trade agreement*")) OR SU((((grain* or crop* or agricultur* or farm* or produce) N4 (silo* or stor* or shed* or warehous*)) or ((agricultur* or farm*) N3 (collection or distribution) N3 (centre* or center* or point* or hub*)) or ((farm* or produce or food* or agricultur*) N4 ("cold chain*" or ((refrigerat* or cold) N3 (truck* or transport* or transit)))) or ((import or imports or importation or export*) N4 (tariff* or quota* or ban* or restrict* or regulat*)) or "trade agreement*"))

4,664

S2 TI (((Food N3 (system or produc*)) or (agricultur* N3 produc*) or aquacultur* or fisher* or livestock* or ((kitchen or home*) N3 (farm* or garden*)) or "nutrition-sensitive" or (improv* N3 (seed* or variet* or crop*)) or (genetic* N3 modif* N3 (food* or organism*)) or GMO* or ((compost* or manure* or mulch* or fertili* or pesticid* or insecticid*) N3 (appl* or spray* or spread* or use or usage)) or ((drought* or pest* or insect*) N3 (toleran* or resist*)) or (rotat* N3 crop*) or (land N3 manage*) or "fixed distance planting" or (plant* N3 (row or rows*)) or ((farm* or crop or agricultur*) N4 subsid*) or (price* N4 purchas* N4 guarantee*) or ((agricultur* or crop* or rain* or weather or index) N4 insurance) or (irrigat* N4 (project* or program* or access* or improv*)) or "water meter*" or (rain* N3 (fed or feed*)) or (trench* N3 hill*) or hilling or "contour bund*" or zai or "water break" or terrac* or ((farm* or agricultur*) N3

(mechani?e* or mechani?ation*)) or intercrop* or (companion N3 (plant* or variet* or species)) or "integrated soil fertility management" or ISFM or (pest N3 manag*))) OR SU(((Food N3 (system or produc*)) or (agricultur* N3 produc*) or aquacultur* or fisher* or livestock* or ((kitchen or home*) N3 (farm* or garden*)) or "nutrition-sensitive" or (improv* N3 (seed* or variet* or crop*)) or (genetic* N3 modif* N3 (food* or organism*)) or GMO* or ((compost* or manure* or mulch* or fertili* or pesticid* or insecticid*) N3 (appl* or spray* or spread* or use or usage)) or ((drought* or pest* or insect*) N3 (toleran* or resist*)) or (rotat* N3 crop*) or (land N3 manage*) or "fixed distance planting" or (plant* N3 (row or rows*)) or ((farm* or crop or agricultur*) N4 subsid*) or (price* N4 purchas* N4 guarantee*) or ((agricultur* or crop* or rain* or weather or index) N4 insurance) or (irrigat* N4 (project* or program* or access* or improv*)) or "water meter*" or (rain* N3 (fed or feed*)) or (trench* N3 hill*) or hilling or "contour bund*" or zai or "water break" or terrac* or ((farm* or agricultur*) N3 (mechani?e* or mechani?ation*)) or intercrop* or (companion N3 (plant* or variet* or species)) or "integrated soil fertility management" or ISFM or (pest N3 manag*)))

83,252

S1 TI (((afghanistan OR albania OR algeria OR "american samoa" OR angola OR "antigua and barbuda" OR antigua OR barbuda OR argentina OR armenia OR armenian OR aruba OR azerbaijan OR bahrain OR bangladesh OR barbados OR belarus OR byelarus OR belorussia OR byelorussian OR belize OR "british honduras" OR benin OR dahomey OR bhutan OR bolivia OR "bosnia and herzegovina" OR bosnia OR herzegovina OR botswana OR bechuanaland OR brazil OR brasil OR bulgaria OR "burkina faso" OR "burkina fasso" OR "upper volta" OR burundi OR urundi OR "cabo verde" OR "cape verde" OR cambodia OR kampuchea OR "khmer republic" OR cameroon OR cameron OR cameroun OR "central african republic" OR "ubangi shari" OR chad OR chile OR china OR colombia OR comoros OR "comoro islands" OR "iles comores" OR mayotte OR "democratic republic of the congo" OR "democratic republic congo" OR congo OR zaire OR "costa rica" OR "cote d'ivoire" OR "cote d' ivoire" OR "cote divoire" OR "cote d ivoire" OR "ivory coast" OR croatia OR cuba OR cyprus OR "czech republic" OR czechoslovakia OR djibouti OR "french somaliland" OR dominica OR "dominican republic" OR ecuador OR egypt OR "united arab republic" OR "el salvador" OR "equatorial guinea" OR "spanish guinea" OR eritrea OR estonia OR eswatini OR swaziland OR ethiopia OR fiji OR gabon OR "gabonese republic" OR gambia OR "georgia (republic)" OR georgian OR ghana OR "gold coast" OR gibraltar OR greece OR grenada OR guam OR guatemala OR guinea OR "guinea bissau" OR guyana OR "british guiana" OR haiti OR hispaniola OR honduras OR hungary OR india OR indonesia OR timor OR iran OR iraq OR "isle of man" OR jamaica OR jordan OR kazakhstan OR kazakh OR kenya OR "democratic people's republic of korea" OR "republic of korea" OR "north korea" OR "south korea" OR korea OR kosovo OR kyrgyzstan OR kirghizia OR kirgizstan OR "kyrgyz republic" OR kirghiz OR laos OR "lao pdr" OR "lao people's democratic republic" OR latvia OR lebanon OR "lebanese republic" OR lesotho OR basutoland OR liberia OR libya OR "libyan arab jamahiriya" OR lithuania OR macau OR macao OR "macedonia (republic)" OR macedonia OR madagascar OR "malagasy republic" OR malawi OR nyasaland OR malaysia OR "malay federation" OR "malaya federation" OR maldives OR "indian ocean islands" OR "indian ocean" OR mali OR malta OR micronesia OR "federated states of micronesia" OR kiribati OR "marshall islands" OR nauru OR "northern mariana islands" OR palau OR tuvalu OR mauritania OR mauritius OR mexico OR moldova OR moldovian OR mongolia OR montenegro OR morocco OR ifni OR mozambique OR "portuguese east africa" OR myanmar OR burma OR namibia OR nepal OR "netherlands antilles" OR nicaragua OR niger OR nigeria OR oman OR muscat OR pakistan OR panama OR

"papua new guinea" OR "new guinea" OR paraguay OR peru OR philippines OR philipines OR phillipines OR phillippines OR poland OR "polish people's republic" OR portugal OR "portuguese republic" OR "puerto rico" OR romania OR russia OR "russian federation" OR ussr OR "soviet union" OR "union of soviet socialist republics" OR rwanda OR ruanda OR samoa OR "pacific islands" OR polynesia OR "samoan islands" OR "navigator island" OR "navigator islands" OR "sao tome and principe" OR "saudi arabia" OR senegal OR serbia OR seychelles OR "sierra leone" OR slovakia OR "slovak republic" OR slovenia OR melanesia OR "solomon island" OR "solomon islands" OR "norfolk island" OR "norfolk islands" OR somalia OR "south africa" OR "south sudan" OR "sri lanka" OR ceylon OR "saint kitts and nevis" OR "st. kitts and nevis" OR "saint lucia" OR "st. lucia" OR "saint vincent and the grenadines" OR "saint vincent" OR "st. vincent" OR grenadines OR sudan OR suriname OR surinam OR "dutch guiana" OR "netherlands guiana" OR syria OR "syrian arab republic" OR tajikistan OR tadjikistan OR tadzhikistan OR tadzhik OR tanzania OR tanganyika OR thailand OR siam OR "timor leste" OR "east timor" OR togo OR "togolese republic" OR tonga OR "trinidad and tobago" OR trinidad OR tobago OR tunisia OR turkey OR "turkey (republic)" OR turkmenistan OR turkmen OR uganda OR ukraine OR uruguay OR uzbekistan OR uzbek OR vanuatu OR "new hebrides" OR venezuela OR vietnam OR "viet nam" OR "middle east" OR "west bank" OR gaza OR palestine OR yemen OR yugoslavia OR zambia OR zimbabwe OR "northern rhodesia" OR "global south" OR "africa south of the sahara" OR "sub-saharan africa" OR "subsaharan africa" OR "africa, central" OR "central africa" OR "africa, northern" OR "north africa" OR "northern africa" OR magreb OR maghrib OR sahara OR "africa, southern" OR "southern africa" OR "africa, eastern" OR "east africa" OR "eastern africa" OR "africa, western" OR "west africa" OR "western africa" OR "west indies" OR "indian ocean islands" OR caribbean OR "central america" OR "latin america" OR "south and central america" OR "south america" OR "asia, central" OR "central asia" OR "asia, northern" OR "north asia" OR "northern asia" OR "asia, southeastern" OR "southeastern asia" OR "south eastern asia" OR "southeast asia" OR "south east asia" OR "asia, western" OR "western asia" OR "europe, eastern" OR "east europe" OR "eastern europe" OR "developing country" OR "developing countries" OR "developing nation*" OR "developing population*" OR "developing world" OR "less developed countr*" OR "less developed nation*" OR "less developed population*" OR "less developed world" OR "lesser developed countr*" OR "lesser developed nation*" OR "lesser developed population*" OR "lesser developed world" OR "under developed countr*" OR "under developed nation*" OR "under developed population*" OR "under developed world" OR "underdeveloped countr*" OR "underdeveloped nation*" OR "underdeveloped population*" OR "underdeveloped world" OR "middle income countr*" OR "middle income nation*" OR "middle income population*" OR "low income countr*" OR "low income nation*" OR "low income population*" OR "lower income countr*" OR "lower income nation*" OR "lower income population*" OR "underserved countr*" OR "underserved nation*" OR "underserved population*" OR "underserved world" OR "under served countr*" OR "under served nation*" OR "under served population*" OR "under served world" OR "deprived countr*" OR "deprived nation*" OR "deprived population*" OR "deprived world" OR "poor countr*" OR "poor nation*" OR "poor population*" OR "poor world" OR "poorer countr*" OR "poorer nation*" OR "poorer population*" OR "poorer world" OR "developing econom*" OR "less developed econom*" OR "lesser developed econom*" OR "under developed econom*" OR "underdeveloped econom*" OR "middle income econom*" OR "low income econom*" OR "lower income econom*" OR "low gdp" OR "low gnp" OR "low gross domestic" OR "low gross national" OR "lower gdp" OR "lower gnp" OR "lower gross domestic"

OR "lower gross national" OR lmic OR lmics OR "third world" OR "lami countr*" OR "transitional countr*" OR "emerging econom*" OR "emerging nation*"))) OR AB (((afghanistan OR albania OR algeria OR "american samoa" OR angola OR "antigua and barbuda" OR antigua OR barbuda OR argentina OR armenia OR armenian OR aruba OR azerbaijan OR bahrain OR bangladesh OR barbados OR belarus OR byelarus OR belorussia OR byelorussian OR belize OR "british honduras" OR benin OR dahomey OR bhutan OR bolivia OR "bosnia and herzegovina" OR bosnia OR herzegovina OR botswana OR bechuanaland OR brazil OR brasil OR bulgaria OR "burkina faso" OR "burkina fasso" OR "upper volta" OR burundi OR urundi OR "cabo verde" OR "cape verde" OR cambodia OR kampuchea OR "khmer republic" OR cameroon OR cameron OR cameroun OR "central african republic" OR "ubangi shari" OR chad OR chile OR china OR colombia OR comoros OR "comoro islands" OR "iles comores" OR mayotte OR "democratic republic of the congo" OR "democratic republic congo" OR congo OR zaire OR "costa rica" OR "cote d'ivoire" OR "cote d' ivoire" OR "cote divoire" OR "cote d ivoire" OR "ivory coast" OR croatia OR cuba OR cyprus OR "czech republic" OR czechoslovakia OR djibouti OR "french somaliland" OR dominica OR "dominican republic" OR ecuador OR egypt OR "united arab republic" OR "el salvador" OR "equatorial guinea" OR "spanish guinea" OR eritrea OR estonia OR eswatini OR swaziland OR ethiopia OR fiji OR gabon OR "gabonese republic" OR gambia OR "georgia (republic)" OR georgian OR ghana OR "gold coast" OR gibraltar OR greece OR grenada OR guam OR guatemala OR guinea OR "guinea bissau" OR guyana OR "british guiana" OR haiti OR hispaniola OR honduras OR hungary OR india OR indonesia OR timor OR iran OR iraq OR "isle of man" OR jamaica OR jordan OR kazakhstan OR kazakh OR kenya OR "democratic people's republic of korea" OR "republic of korea" OR "north korea" OR "south korea" OR korea OR kosovo OR kyrgyzstan OR kirghizia OR kirgizstan OR "kyrgyz republic" OR kirghiz OR laos OR "lao pdr" OR "lao people's democratic republic" OR latvia OR lebanon OR "lebanese republic" OR lesotho OR basutoland OR liberia OR libya OR "libyan arab jamahiriya" OR lithuania OR macau OR macao OR "macedonia (republic)" OR macedonia OR madagascar OR "malagasy republic" OR malawi OR nyasaland OR malaysia OR "malay federation" OR "malaya federation" OR maldives OR "indian ocean islands" OR "indian ocean" OR mali OR malta OR micronesia OR "federated states of micronesia" OR kiribati OR "marshall islands" OR nauru OR "northern mariana islands" OR palau OR tuvalu OR mauritania OR mauritius OR mexico OR moldova OR moldovian OR mongolia OR montenegro OR morocco OR ifni OR mozambique OR "portuguese east africa" OR myanmar OR burma OR namibia OR nepal OR "netherlands antilles" OR nicaragua OR niger OR nigeria OR oman OR muscat OR pakistan OR panama OR "papua new guinea" OR "new guinea" OR paraguay OR peru OR philippines OR philipines OR phillipines OR phillippines OR poland OR "polish people's republic" OR portugal OR "portuguese republic" OR "puerto rico" OR romania OR russia OR "russian federation" OR ussr OR "soviet union" OR "union of soviet socialist republics" OR rwanda OR ruanda OR samoa OR "pacific islands" OR polynesia OR "samoan islands" OR "navigator island" OR "navigator islands" OR "sao tome and principe" OR "saudi arabia" OR senegal OR serbia OR seychelles OR "sierra leone" OR slovakia OR "slovak republic" OR slovenia OR melanesia OR "solomon island" OR "solomon islands" OR "norfolk island" OR "norfolk islands" OR somalia OR "south africa" OR "south sudan" OR "sri lanka" OR ceylon OR "saint kitts and nevis" OR "st. kitts and nevis" OR "saint lucia" OR "st. lucia" OR "saint vincent and the grenadines" OR "saint vincent" OR "st. vincent" OR grenadines OR sudan OR suriname OR surinam OR "dutch guiana" OR "netherlands guiana" OR syria OR "syrian arab republic" OR tajikistan OR tadjikistan OR tadzhikistan OR tadzhik OR tanzania OR

tanganyika OR thailand OR siam OR "timor leste" OR "east timor" OR togo OR "togolese republic" OR tonga OR "trinidad and tobago" OR trinidad OR tobago OR tunisia OR turkey OR "turkey (republic)" OR turkmenistan OR turkmen OR uganda OR ukraine OR uruguay OR uzbekistan OR uzbek OR vanuatu OR "new hebrides" OR venezuela OR vietnam OR "viet nam" OR "middle east" OR "west bank" OR gaza OR palestine OR yemen OR yugoslavia OR zambia OR zimbabwe OR "northern rhodesia" OR "global south" OR "africa south of the sahara" OR "sub-saharan africa" OR "subsaharan africa" OR "africa, central" OR "central africa" OR "africa, northern" OR "north africa" OR "northern africa" OR magreb OR maghrib OR sahara OR "africa, southern" OR "southern africa" OR "africa, eastern" OR "east africa" OR "eastern africa" OR "africa, western" OR "west africa" OR "western africa" OR "west indies" OR "indian ocean islands" OR caribbean OR "central america" OR "latin america" OR "south and central america" OR "south america" OR "asia, central" OR "central asia" OR "asia, northern" OR "north asia" OR "northern asia" OR "asia, southeastern" OR "southeastern asia" OR "south eastern asia" OR "southeast asia" OR "south east asia" OR "asia, western" OR "western asia" OR "europe, eastern" OR "east europe" OR "eastern europe" OR "developing country" OR "developing countries" OR "developing nation*" OR "developing population*" OR "developing world" OR "less developed countr*" OR "less developed nation*" OR "less developed population*" OR "less developed world" OR "lesser developed countr*" OR "lesser developed nation*" OR "lesser developed population*" OR "lesser developed world" OR "under developed countr*" OR "under developed nation*" OR "under developed population*" OR "under developed world" OR "underdeveloped countr*" OR "underdeveloped nation*" OR "underdeveloped population*" OR "underdeveloped world" OR "middle income countr*" OR "middle income nation*" OR "middle income population*" OR "low income countr*" OR "low income nation*" OR "low income population*" OR "lower income countr*" OR "lower income nation*" OR "lower income population*" OR "underserved countr*" OR "underserved nation*" OR "underserved population*" OR "underserved world" OR "under served countr*" OR "under served nation*" OR "under served population*" OR "under served world" OR "deprived countr*" OR "deprived nation*" OR "deprived population*" OR "deprived world" OR "poor countr*" OR "poor nation*" OR "poor population*" OR "poor world" OR "poorer countr*" OR "poorer nation*" OR "poorer population*" OR "poorer world" OR "developing econom*" OR "less developed econom*" OR "lesser developed econom*" OR "under developed econom*" OR "underdeveloped econom*" OR "middle income econom*" OR "low income econom*" OR "lower income econom*" OR "low gdp" OR "low gnp" OR "low gross domestic" OR "low gross national" OR "lower gdp" OR "lower gnp" OR "lower gross domestic" OR "lower gross national" OR lmic OR lmics OR "third world" OR "lami countr*" OR "transitional countr*" OR "emerging econom*" OR "emerging nation*"))) OR SU (((afghanistan OR albania OR algeria OR "american samoa" OR angola OR "antigua and barbuda" OR antigua OR barbuda OR argentina OR armenia OR armenian OR aruba OR azerbaijan OR bahrain OR bangladesh OR barbados OR belarus OR byelarus OR belorussia OR byelorussian OR belize OR "british honduras" OR benin OR dahomey OR bhutan OR bolivia OR "bosnia and herzegovina" OR bosnia OR herzegovina OR botswana OR bechuanaland OR brazil OR brasil OR bulgaria OR "burkina faso" OR "burkina fasso" OR "upper volta" OR burundi OR urundi OR "cabo verde" OR "cape verde" OR cambodia OR kampuchea OR "khmer republic" OR cameroon OR cameron OR cameroun OR "central african republic" OR "ubangi shari" OR chad OR chile OR china OR colombia OR comoros OR "comoro islands" OR "iles comores" OR mayotte OR "democratic republic of the congo" OR "democratic republic congo" OR congo OR zaire OR "costa rica" OR "cote d'ivoire"

OR "cote d' ivoire" OR "cote divoire" OR "cote d ivoire" OR "ivory coast" OR croatia OR cuba OR cyprus OR "czech republic" OR czechoslovakia OR djibouti OR "french somaliland" OR dominica OR "dominican republic" OR ecuador OR egypt OR "united arab republic" OR "el salvador" OR "equatorial guinea" OR "spanish guinea" OR eritrea OR estonia OR eswatini OR swaziland OR ethiopia OR fiji OR gabon OR "gabonese republic" OR gambia OR "georgia (republic)" OR georgian OR ghana OR "gold coast" OR gibraltar OR greece OR grenada OR guam OR guatemala OR guinea OR "guinea bissau" OR guyana OR "british guiana" OR haiti OR hispaniola OR honduras OR hungary OR india OR indonesia OR timor OR iran OR iraq OR "isle of man" OR jamaica OR jordan OR kazakhstan OR kazakh OR kenya OR "democratic people's republic of korea" OR "republic of korea" OR "north korea" OR "south korea" OR korea OR kosovo OR kyrgyzstan OR kirghizia OR kirgizstan OR "kyrgyz republic" OR kirghiz OR laos OR "lao pdr" OR "lao people's democratic republic" OR latvia OR lebanon OR "lebanese republic" OR lesotho OR basutoland OR liberia OR libya OR "libyan arab jamahiriya" OR lithuania OR macau OR macao OR "macedonia (republic)" OR macedonia OR madagascar OR "malagasy republic" OR malawi OR nyasaland OR malaysia OR "malay federation" OR "malaya federation" OR maldives OR "indian ocean islands" OR "indian ocean" OR mali OR malta OR micronesia OR "federated states of micronesia" OR kiribati OR "marshall islands" OR nauru OR "northern mariana islands" OR palau OR tuvalu OR mauritania OR mauritius OR mexico OR moldova OR moldovian OR mongolia OR montenegro OR morocco OR ifni OR mozambique OR "portuguese east africa" OR myanmar OR burma OR namibia OR nepal OR "netherlands antilles" OR nicaragua OR niger OR nigeria OR oman OR muscat OR pakistan OR panama OR "papua new guinea" OR "new guinea" OR paraguay OR peru OR philippines OR philipines OR phillipines OR phillippines OR poland OR "polish people's republic" OR portugal OR "portuguese republic" OR "puerto rico" OR romania OR russia OR "russian federation" OR ussr OR "soviet union" OR "union of soviet socialist republics" OR rwanda OR ruanda OR samoa OR "pacific islands" OR polynesia OR "samoan islands" OR "navigator island" OR "navigator islands" OR "sao tome and principe" OR "saudi arabia" OR senegal OR serbia OR seychelles OR "sierra leone" OR slovakia OR "slovak republic" OR slovenia OR melanesia OR "solomon island" OR "solomon islands" OR "norfolk island" OR "norfolk islands" OR somalia OR "south africa" OR "south sudan" OR "sri lanka" OR ceylon OR "saint kitts and nevis" OR "st. kitts and nevis" OR "saint lucia" OR "st. lucia" OR "saint vincent and the grenadines" OR "saint vincent" OR "st. vincent" OR grenadines OR sudan OR suriname OR surinam OR "dutch guiana" OR "netherlands guiana" OR syria OR "syrian arab republic" OR tajikistan OR tadjikistan OR tadzhikistan OR tadzhik OR tanzania OR tanganyika OR thailand OR siam OR "timor leste" OR "east timor" OR togo OR "togolese republic" OR tonga OR "trinidad and tobago" OR trinidad OR tobago OR tunisia OR turkey OR "turkey (republic)" OR turkmenistan OR turkmen OR uganda OR ukraine OR uruguay OR uzbekistan OR uzbek OR vanuatu OR "new hebrides" OR venezuela OR vietnam OR "viet nam" OR "middle east" OR "west bank" OR gaza OR palestine OR yemen OR yugoslavia OR zambia OR zimbabwe OR "northern rhodesia" OR "global south" OR "africa south of the sahara" OR "sub-saharan africa" OR "subsaharan africa" OR "africa, central" OR "central africa" OR "africa, northern" OR "north africa" OR "northern africa" OR magreb OR maghrib OR sahara OR "africa, southern" OR "southern africa" OR "africa, eastern" OR "east africa" OR "eastern africa" OR "africa, western" OR "west africa" OR "western africa" OR "west indies" OR "indian ocean islands" OR caribbean OR "central america" OR "latin america" OR "south and central america" OR "south america" OR "asia, central" OR "central asia" OR "asia, northern" OR "north asia" OR "northern asia"

OR "asia, southeastern" OR "southeastern asia" OR "south eastern asia" OR "southeast asia" OR "south east asia" OR "asia, western" OR "western asia" OR "europe, eastern" OR "east europe" OR "eastern europe" OR "developing country" OR "developing countries" OR "developing nation*" OR "developing population*" OR "developing world" OR "less developed countr*" OR "less developed nation*" OR "less developed population*" OR "less developed world" OR "lesser developed countr*" OR "lesser developed nation*" OR "lesser developed population*" OR "lesser developed world" OR "under developed countr*" OR "under developed nation*" OR "under developed population*" OR "under developed world" OR "underdeveloped countr*" OR "underdeveloped nation*" OR "underdeveloped population*" OR "underdeveloped world" OR "middle income countr*" OR "middle income nation*" OR "middle income population*" OR "low income countr*" OR "low income nation*" OR "low income population*" OR "lower income countr*" OR "lower income nation*" OR "lower income population*" OR "underserved countr*" OR "underserved nation*" OR "underserved population*" OR "underserved world" OR "under served countr*" OR "under served nation*" OR "under served population*" OR "under served world" OR "deprived countr*" OR "deprived nation*" OR "deprived population*" OR "deprived world" OR "poor countr*" OR "poor nation*" OR "poor population*" OR "poor world" OR "poorer countr*" OR "poorer nation*" OR "poorer population*" OR "poorer world" OR "developing econom*" OR "less developed econom*" OR "lesser developed econom*" OR "under developed econom*" OR "underdeveloped econom*" OR "middle income econom*" OR "low income econom*" OR "lower income econom*" OR "low gdp" OR "low gnp" OR "low gross domestic" OR "low gross national" OR "lower gdp" OR "lower gnp" OR "lower gross domestic" OR "lower gross national" OR lmic OR lmics OR "third world" OR "lami countr*" OR "transitional countr*" OR "emerging econom*" OR "emerging nation*")))

2,070,077

CINAHL (Ebsco) – Searched 26th May 2020

S17 S1 AND S12 AND S15 Limiters - Published Date: 20000101-20201231

4,950

S16 S1 AND S12 AND S15

5,013

S15 S13 OR S14

805,831

S14 TI (("systematic review" or "literature review")) OR AB (("systematic review" or "literature review")) OR SU (("systematic review" or "literature review")) OR SO (cochrane database of systematic reviews)

172,958

S13 TI ((random* or experiment* or (match* N2 (propensity or coarsened or covariate)) or "propensity score" or ("difference in difference*" or "difference-in-difference*" or "differences in difference*" or "differences-in-difference*" or "double difference*") or ("quasi-experimental" or "quasi experimental" or "quasi-experiment" or "quasi experiment") or ((estimator or counterfactual) and evaluation*) or "instrumental variable*" or (IV N2 (estimation or approach)) or regression discontinuity or time series or segment* regression or (non N2 participant*) or ((control or comparison) N2 (group* or condition* or area* or intervention)))) OR AB ((random* or experiment* or (match* N2 (propensity or coarsened or covariate)) or "propensity score" or ("difference in difference*" or "difference-in-difference*" or

"differences in difference*" or "differences-in-difference*" or "double difference*") or ("quasi-experimental" or "quasi experimental" or "quasi-experiment" or "quasi experiment") or ((estimator or counterfactual) and evaluation*) or "instrumental variable*" or (IV N2 (estimation or approach)) or regression discontinuity or time series or segment* regression or (non N2 participant*) or ((control or comparison) N2 (group* or condition* or area* or intervention)))) OR SU ((random* or experiment* or (match* N2 (propensity or coarsened or covariate)) or "propensity score" or ("difference in difference*" or "difference-in-difference*" or "differences in difference*" or "differences-in-difference*" or "double difference*") or ("quasi-experimental" or "quasi experimental" or "quasi-experiment" or "quasi experiment") or ((estimator or counterfactual) and evaluation*) or "instrumental variable*" or (IV N2 (estimation or approach)) or regression discontinuity or time series or segment* regression or (non N2 participant*) or ((control or comparison) N2 (group* or condition* or area* or intervention))))

681,035

S12 S2 OR S3 OR S4 OR S5 OR S6 OR S7 OR S8 OR S9 OR S10 OR S11

105,614

S11 TI (("farm* field school*" or (farm* N3 (train* or (build N3 capacity))) or "demonstration plot*" or ((agricultur* or rural) N1 extension) or (farm* N3 educat*) or (farm* N3 (organi?ation* or group* or cooperative* or co-op* or club*)) or (("social protection" or microfinance or "micro finance" or microloan* or "micro loan*") N4 (farm* or smallholder* or agricultur*)))) OR SU(("farm* field school*" or (farm* N3 (train* or (build N3 capacity))) or "demonstration plot*" or ((agricultur* or rural) N1 extension) or (farm* N3 educat*) or (farm* N3 (organi?ation* or group* or cooperative* or co-op* or club*)) or (("social protection" or microfinance or "micro finance" or microloan* or "micro loan*") N4 (farm* or smallholder* or agricultur*))))

195

S10 TI ((cook* or ((meal* or food*) N3 prepar*) or (wom?n N4 (food* or eat* or feed* or meal* or diet*) N4 (empower* or deci*)) or ((food* or eat* or feed* or breastfeed* or "breast feed*" or meal* or diet* or "F&V") N4 (inform* or educat* or promot* or campaign* or media or initiative* or (peer W1 (counsel* or support)) or (community N3 (meet* or class* or engag* or participat*)) or "door-to-door")))) OR SU((cook* or ((meal* or food*) N3 prepar*) or (wom?n N4 (food* or eat* or feed* or meal* or diet*) N4 (empower* or deci*)) or ((food* or eat* or feed* or breastfeed* or "breast feed*" or meal* or diet* or "F&V") N4 (inform* or educat* or promot* or campaign* or media or initiative* or (peer W1 (counsel* or support)) or (community N3 (meet* or class* or engag* or participat*)) or "door-to-door"))))

23,115

S9 TI ((((food* N3 (safe* or quality)) N3 (regulat* or restrict* or polic* or law* or legislat* or inspect*)) or (food* N3 certif*))) OR SU((((food* N3 (safe* or quality)) N3 (regulat* or restrict* or polic* or law* or legislat* or inspect*)) or (food* N3 certif*))

155

S8 TI (((food* N4 ((advertis* or label* or market*) N3 (ban* or restrict* or regulat* or polic* or law* or legislat*))) or ((supermarket or ((food* or grocer* or convenience or corner) W1 (store* or market*))) N4 (design* or redesign* or re-design* or layout* or innovat*)) or (front N3 pack* N3 label*))) OR SU(((food* N4 ((advertis* or label* or market*) N3 (ban* or restrict* or regulat* or polic* or law* or legislat*))) or ((supermarket or ((food* or grocer* or convenience or corner) W1 (store* or market*))) N4 (design* or redesign* or re-design* or layout* or innovat*)) or (front N3 pack* N3 label*)))

720

S7 TI ((((food* or consumer*) N4 (subsid* or "price control*")) or (food* N4 (cash or "social assistance" or "social safety net" or voucher* or welfare)))) OR SU((((food* or consumer*) N4 (subsid* or "price control*")) or (food* N4 (cash or "social assistance" or "social safety net" or voucher* or welfare))))

88

S6 TI (("food environment*" or (zoning and (food* N3 (security or access*))) or ((sugar* or SSB or "unhealthy food*") N3 tax*) or nudg* or ((food* or eat* or feed* or meal* or diet*) N4 (deci* or ((cultur* or social) N3 (norm* or preferen*)))) or "ration shop*" or "farmer* market*" or "food desert*" or ((food or grocer*) N3 retail* N3 (tax* or subsid* or incentiv*)) or (school* N4 (meal* or feed* or food* or lunch*)))) OR SU(("food environment*" or (zoning and (food* N3 (security or access*))) or ((sugar* or SSB or "unhealthy food*") N3 tax*) or nudg* or ((food* or eat* or feed* or meal* or diet*) N4 (deci* or ((cultur* or social) N3 (norm* or preferen*)))) or "ration shop*" or "farmer* market*" or "food desert*" or ((food or grocer*) N3 retail* N3 (tax* or subsid* or incentiv*)) or (school* N4 (meal* or feed* or food* or lunch*))))

3,439

S5 TI (((food N3 (loss* or wast*)) or ((food* or grocer* or soup) N4 (donat* or pantr* or bank* or kitchen* or transfer*)) or (food* N4 near* N4 spoil*))) OR SU(((food N3 (loss* or wast*)) or ((food* or grocer* or soup) N4 (donat* or pantr* or bank* or kitchen* or transfer*)) or (food* N4 near* N4 spoil*)))

569

S4 TI ((((food* or crop* or staple*) N3 (fortif* or biofortif*)) or ((recycl* or compost* or biodegrad* or plastic*) N3 (pack* or sache*)) or (post-harvest N4 (clean* or winnow* or cann* or mill* or thresh* or hull*)) or ((food* or crop* or grain*) N3 dry*))) OR SU((((food* or crop* or staple*) N3 (fortif* or biofortif*)) or ((recycl* or compost* or biodegrad* or plastic*) N3 (pack* or sache*)) or (post-harvest N4 (clean* or winnow* or cann* or mill* or thresh* or hull*)) or ((food* or crop* or grain*) N3 dry*)))

4,226

S3 TI ((((grain* or crop* or agricultur* or farm* or produce) N4 (silo* or stor* or shed* or warehous*)) or ((agricultur* or farm*) N3 (collection or distribution) N3 (centre* or center* or point* or hub*)) or ((farm* or produce or food* or agricultur*) N4 ("cold chain*" or ((refrigerat* or cold) N3 (truck* or transport* or transit)))) or ((import or imports or importation or export*) N4 (tariff* or quota* or ban* or restrict* or regulat*)) or "trade agreement*")) OR SU((((grain* or crop* or agricultur* or farm* or produce) N4 (silo* or stor* or shed* or warehous*)) or ((agricultur* or farm*) N3 (collection or distribution) N3 (centre* or center* or point* or hub*)) or ((farm* or produce or food* or agricultur*) N4 ("cold chain*" or ((refrigerat* or cold) N3 (truck* or transport* or transit)))) or ((import or imports or importation or export*) N4 (tariff* or quota* or ban* or restrict* or regulat*)) or "trade agreement*"))

166

S2 TI (((Food N3 (system or produc*)) or (agricultur* N3 produc*) or aquacultur* or fisher* or livestock* or ((kitchen or home*) N3 (farm* or garden*)) or "nutrition-sensitive" or (improv* N3 (seed* or variet* or crop*)) or (genetic* N3 modif* N3 (food* or organism*)) or GMO* or ((compost* or manure* or mulch* or fertili* or pesticid* or insecticid*) N3 (appl* or spray* or spread* or use or usage)) or ((drought* or pest* or insect*) N3 (toleran* or resist*)) or (rotat* N3 crop*) or (land N3 manage*) or "fixed distance planting" or (plant* N3 (row or rows*)) or ((farm* or crop or agricultur*) N4 subsid*) or (price* N4 purchas* N4 guarantee*) or ((agricultur* or crop* or rain* or weather or index) N4 insurance) or (irrigat* N4 (project* or program* or access* or improv*)) or "water meter*" or (rain* N3 (fed or feed*)) or (trench* N3 hill*) or hilling or "contour bund*" or zai or "water break" or terrac* or ((farm* or agricultur*) N3

(mechani?e* or mechani?ation*)) or intercrop* or (companion N3 (plant* or variet* or species)) or "integrated soil fertility management" or ISFM or (pest N3 manag*))) OR SU(((Food N3 (system or produc*)) or (agricultur* N3 produc*) or aquacultur* or fisher* or livestock* or ((kitchen or home*) N3 (farm* or garden*)) or "nutrition-sensitive" or (improv* N3 (seed* or variet* or crop*)) or (genetic* N3 modif* N3 (food* or organism*)) or GMO* or ((compost* or manure* or mulch* or fertili* or pesticid* or insecticid*) N3 (appl* or spray* or spread* or use or usage)) or ((drought* or pest* or insect*) N3 (toleran* or resist*)) or (rotat* N3 crop*) or (land N3 manage*) or "fixed distance planting" or (plant* N3 (row or rows*)) or ((farm* or crop or agricultur*) N4 subsid*) or (price* N4 purchas* N4 guarantee*) or ((agricultur* or crop* or rain* or weather or index) N4 insurance) or (irrigat* N4 (project* or program* or access* or improv*)) or "water meter*" or (rain* N3 (fed or feed*)) or (trench* N3 hill*) or hilling or "contour bund*" or zai or "water break" or terrac* or ((farm* or agricultur*) N3 (mechani?e* or mechani?ation*)) or intercrop* or (companion N3 (plant* or variet* or species)) or "integrated soil fertility management" or ISFM or (pest N3 manag*)))

74,091

S1 TI (((afghanistan OR albania OR algeria OR "american samoa" OR angola OR "antigua and barbuda" OR antigua OR barbuda OR argentina OR armenia OR armenian OR aruba OR azerbaijan OR bahrain OR bangladesh OR barbados OR belarus OR byelarus OR belorussia OR byelorussian OR belize OR "british honduras" OR benin OR dahomey OR bhutan OR bolivia OR "bosnia and herzegovina" OR bosnia OR herzegovina OR botswana OR bechuanaland OR brazil OR brasil OR bulgaria OR "burkina faso" OR "burkina fasso" OR "upper volta" OR burundi OR urundi OR "cabo verde" OR "cape verde" OR cambodia OR kampuchea OR "khmer republic" OR cameroon OR cameron OR cameroun OR "central african republic" OR "ubangi shari" OR chad OR chile OR china OR colombia OR comoros OR "comoro islands" OR "iles comores" OR mayotte OR "democratic republic of the congo" OR "democratic republic congo" OR congo OR zaire OR "costa rica" OR "cote d'ivoire" OR "cote d' ivoire" OR "cote divoire" OR "cote d ivoire" OR "ivory coast" OR croatia OR cuba OR cyprus OR "czech republic" OR czechoslovakia OR djibouti OR "french somaliland" OR dominica OR "dominican republic" OR ecuador OR egypt OR "united arab republic" OR "el salvador" OR "equatorial guinea" OR "spanish guinea" OR eritrea OR estonia OR eswatini OR swaziland OR ethiopia OR fiji OR gabon OR "gabonese republic" OR gambia OR "georgia (republic)" OR georgian OR ghana OR "gold coast" OR gibraltar OR greece OR grenada OR guam OR guatemala OR guinea OR "guinea bissau" OR guyana OR "british guiana" OR haiti OR hispaniola OR honduras OR hungary OR india OR indonesia OR timor OR iran OR iraq OR "isle of man" OR jamaica OR jordan OR kazakhstan OR kazakh OR kenya OR "democratic people's republic of korea" OR "republic of korea" OR "north korea" OR "south korea" OR korea OR kosovo OR kyrgyzstan OR kirghizia OR kirgizstan OR "kyrgyz republic" OR kirghiz OR laos OR "lao pdr" OR "lao people's democratic republic" OR latvia OR lebanon OR "lebanese republic" OR lesotho OR basutoland OR liberia OR libya OR "libyan arab jamahiriya" OR lithuania OR macau OR macao OR "macedonia (republic)" OR macedonia OR madagascar OR "malagasy republic" OR malawi OR nyasaland OR malaysia OR "malay federation" OR "malaya federation" OR maldives OR "indian ocean islands" OR "indian ocean" OR mali OR malta OR micronesia OR "federated states of micronesia" OR kiribati OR "marshall islands" OR nauru OR "northern mariana islands" OR palau OR tuvalu OR mauritania OR mauritius OR mexico OR moldova OR moldovian OR mongolia OR montenegro OR morocco OR ifni OR mozambique OR "portuguese east africa" OR myanmar OR burma OR namibia OR nepal OR "netherlands antilles" OR nicaragua OR niger OR nigeria OR oman OR muscat OR pakistan OR panama OR

"papua new guinea" OR "new guinea" OR paraguay OR peru OR philippines OR philipines OR phillipines OR phillippines OR poland OR "polish people's republic" OR portugal OR "portuguese republic" OR "puerto rico" OR romania OR russia OR "russian federation" OR ussr OR "soviet union" OR "union of soviet socialist republics" OR rwanda OR ruanda OR samoa OR "pacific islands" OR polynesia OR "samoan islands" OR "navigator island" OR "navigator islands" OR "sao tome and principe" OR "saudi arabia" OR senegal OR serbia OR seychelles OR "sierra leone" OR slovakia OR "slovak republic" OR slovenia OR melanesia OR "solomon island" OR "solomon islands" OR "norfolk island" OR "norfolk islands" OR somalia OR "south africa" OR "south sudan" OR "sri lanka" OR ceylon OR "saint kitts and nevis" OR "st. kitts and nevis" OR "saint lucia" OR "st. lucia" OR "saint vincent and the grenadines" OR "saint vincent" OR "st. vincent" OR grenadines OR sudan OR suriname OR surinam OR "dutch guiana" OR "netherlands guiana" OR syria OR "syrian arab republic" OR tajikistan OR tadjikistan OR tadzhikistan OR tadzhik OR tanzania OR tanganyika OR thailand OR siam OR "timor leste" OR "east timor" OR togo OR "togolese republic" OR tonga OR "trinidad and tobago" OR trinidad OR tobago OR tunisia OR turkey OR "turkey (republic)" OR turkmenistan OR turkmen OR uganda OR ukraine OR uruguay OR uzbekistan OR uzbek OR vanuatu OR "new hebrides" OR venezuela OR vietnam OR "viet nam" OR "middle east" OR "west bank" OR gaza OR palestine OR yemen OR yugoslavia OR zambia OR zimbabwe OR "northern rhodesia" OR "global south" OR "africa south of the sahara" OR "sub-saharan africa" OR "subsaharan africa" OR "africa, central" OR "central africa" OR "africa, northern" OR "north africa" OR "northern africa" OR magreb OR maghrib OR sahara OR "africa, southern" OR "southern africa" OR "africa, eastern" OR "east africa" OR "eastern africa" OR "africa, western" OR "west africa" OR "western africa" OR "west indies" OR "indian ocean islands" OR caribbean OR "central america" OR "latin america" OR "south and central america" OR "south america" OR "asia, central" OR "central asia" OR "asia, northern" OR "north asia" OR "northern asia" OR "asia, southeastern" OR "southeastern asia" OR "south eastern asia" OR "southeast asia" OR "south east asia" OR "asia, western" OR "western asia" OR "europe, eastern" OR "east europe" OR "eastern europe" OR "developing country" OR "developing countries" OR "developing nation*" OR "developing population*" OR "developing world" OR "less developed countr*" OR "less developed nation*" OR "less developed population*" OR "less developed world" OR "lesser developed countr*" OR "lesser developed nation*" OR "lesser developed population*" OR "lesser developed world" OR "under developed countr*" OR "under developed nation*" OR "under developed population*" OR "under developed world" OR "underdeveloped countr*" OR "underdeveloped nation*" OR "underdeveloped population*" OR "underdeveloped world" OR "middle income countr*" OR "middle income nation*" OR "middle income population*" OR "low income countr*" OR "low income nation*" OR "low income population*" OR "lower income countr*" OR "lower income nation*" OR "lower income population*" OR "underserved countr*" OR "underserved nation*" OR "underserved population*" OR "underserved world" OR "under served countr*" OR "under served nation*" OR "under served population*" OR "under served world" OR "deprived countr*" OR "deprived nation*" OR "deprived population*" OR "deprived world" OR "poor countr*" OR "poor nation*" OR "poor population*" OR "poor world" OR "poorer countr*" OR "poorer nation*" OR "poorer population*" OR "poorer world" OR "developing econom*" OR "less developed econom*" OR "lesser developed econom*" OR "under developed econom*" OR "underdeveloped econom*" OR "middle income econom*" OR "low income econom*" OR "lower income econom*" OR "low gdp" OR "low gnp" OR "low gross domestic" OR "low gross national" OR "lower gdp" OR "lower gnp" OR "lower gross domestic"

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543,093

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Results limited to Academic Search Complete – 8361; Agris – 9818; Repec – 1570; World Bank e-lib – 60; Oxfam Policy & Practice - 8

S17 S1 AND S12 AND S15 Limiters - Date of Publication: 20000101-20201231

196,305

S16 S1 AND S12 AND S15

207,276

S15 S13 OR S14

27,915,113

S14 TI (("systematic review" or "literature review")) OR AB (("systematic review" or "literature review")) OR SU (("systematic review" or "literature review")) OR SO (cochrane database of systematic reviews)

1,585,841

S13 TI ((random* or experiment* or (match* N2 (propensity or coarsened or covariate)) or "propensity score" or ("difference in difference*" or "difference-in-difference*" or "differences in difference*" or "differences-in-difference*" or "double difference*") or ("quasi-experimental" or "quasi experimental" or "quasi-experiment" or "quasi experiment") or ((estimator or counterfactual) and evaluation*) or "instrumental variable*" or (IV N2 (estimation or approach)) or regression discontinuity or time series or segment* regression or (non N2 participant*) or ((control or comparison) N2 (group* or condition* or area* or intervention)))) OR AB ((random* or experiment* or (match* N2 (propensity or coarsened or covariate)) or "propensity score" or ("difference in difference*" or "difference-in-difference*" or

"differences in difference*" or "differences-in-difference*" or "double difference*") or ("quasi-experimental" or "quasi experimental" or "quasi-experiment" or "quasi experiment") or ((estimator or counterfactual) and evaluation*) or "instrumental variable*" or (IV N2 (estimation or approach)) or regression discontinuity or time series or segment* regression or (non N2 participant*) or ((control or comparison) N2 (group* or condition* or area* or intervention)))) OR SU ((random* or experiment* or (match* N2 (propensity or coarsened or covariate)) or "propensity score" or ("difference in difference*" or "difference-in-difference*" or "differences in difference*" or "differences-in-difference*" or "double difference*") or ("quasi-experimental" or "quasi experimental" or "quasi-experiment" or "quasi experiment") or ((estimator or counterfactual) and evaluation*) or "instrumental variable*" or (IV N2 (estimation or approach)) or regression discontinuity or time series or segment* regression or (non N2 participant*) or ((control or comparison) N2 (group* or condition* or area* or intervention))))

26,862,458

S12 S2 OR S3 OR S4 OR S5 OR S6 OR S7 OR S8 OR S9 OR S10 OR S11

2,361,321

S11 TI (("farm* field school*" or (farm* N3 (train* or (build N3 capacity))) or "demonstration plot*" or ((agricultur* or rural) N1 extension) or (farm* N3 educat*) or (farm* N3 (organi?ation* or group* or cooperative* or co-op* or club*)) or (("social protection" or microfinance or "micro finance" or microloan* or "micro loan*") N4 (farm* or smallholder* or agricultur*)))) OR SU(("farm* field school*" or (farm* N3 (train* or (build N3 capacity))) or "demonstration plot*" or ((agricultur* or rural) N1 extension) or (farm* N3 educat*) or (farm* N3 (organi?ation* or group* or cooperative* or co-op* or club*)) or (("social protection" or microfinance or "micro finance" or microloan* or "micro loan*") N4 (farm* or smallholder* or agricultur*))))

78,036

S10 TI ((cook* or ((meal* or food*) N3 prepar*) or (wom?n N4 (food* or eat* or feed* or meal* or diet*) N4 (empower* or deci*)) or ((food* or eat* or feed* or breastfeed* or "breast feed*" or meal* or diet* or "F&V") N4 (inform* or educat* or promot* or campaign* or media or initiative* or (peer N1 (counsel* or support)) or (community N3 (meet* or class* or engag* or participat*)) or "door-to-door")))) OR SU((cook* or ((meal* or food*) N3 prepar*) or (wom?n N4 (food* or eat* or feed* or meal* or diet*) N4 (empower* or deci*)) or ((food* or eat* or feed* or breastfeed* or "breast feed*" or meal* or diet* or "F&V") N4 (inform* or educat* or promot* or campaign* or media or initiative* or (peer N1 (counsel* or support)) or (community N3 (meet* or class* or engag* or participat*)) or "door-to-door"))))

681,386

S9 TI ((((food* N3 (safe* or quality)) N3 (regulat* or restrict* or polic* or law* or legislat* or inspect*)) or (food* N3 certif*))) OR SU((((food* N3 (safe* or quality)) N3 (regulat* or restrict* or polic* or law* or legislat* or inspect*)) or (food* N3 certif*))

10,462

S8 TI (((food* N4 ((advertis* or label* or market*) N3 (ban* or restrict* or regulat* or polic* or law* or legislat*))) or ((supermarket or ((food* or grocer* or convenience or corner) N1 (store* or market*))) N4 (design* or redesign* or re-design* or layout* or innovat*)) or (front N3 pack* N3 label*))) OR SU(((food* N4 ((advertis* or label* or market*) N3 (ban* or restrict* or regulat* or polic* or law* or legislat*))) or ((supermarket or ((food* or grocer* or convenience or corner) N1 (store* or market*))) N4 (design* or redesign* or re-design* or layout* or innovat*)) or (front N3 pack* N3 label*)))

8,223

S7 TI ((((food* or consumer*) N4 (subsid* or "price control*")) or (food* N4 (cash or "social assistance" or "social safety net" or voucher* or welfare)))) OR SU((((food* or consumer*) N4 (subsid* or "price control*")) or (food* N4 (cash or "social assistance" or "social safety net" or voucher* or welfare))))

7,733

S6 TI (("food environment*" or (zoning and (food* N3 (security or access*))) or ((sugar* or SSB or "unhealthy food*") N3 tax*) or nudg* or ((food* or eat* or feed* or meal* or diet*) N4 (deci* or ((cultur* or social) N3 (norm* or preferen*)))) or "ration shop*" or "farmer* market*" or "food desert*" or ((food or grocer*) N3 retail* N3 (tax* or subsid* or incentiv*)) or (school* N4 (meal* or feed* or food* or lunch*)))) OR SU(("food environment*" or (zoning and (food* N3 (security or access*))) or ((sugar* or SSB or "unhealthy food*") N3 tax*) or nudg* or ((food* or eat* or feed* or meal* or diet*) N4 (deci* or ((cultur* or social) N3 (norm* or preferen*)))) or "ration shop*" or "farmer* market*" or "food desert*" or ((food or grocer*) N3 retail* N3 (tax* or subsid* or incentiv*)) or (school* N4 (meal* or feed* or food* or lunch*))))

93,429

S5 TI (((food N3 (loss* or wast*)) or ((food* or grocer* or soup) N4 (donat* or pantr* or bank* or kitchen* or transfer*)) or (food* N4 near* N4 spoil*))) OR SU(((food N3 (loss* or wast*)) or ((food* or grocer* or soup) N4 (donat* or pantr* or bank* or kitchen* or transfer*)) or (food* N4 near* N4 spoil*)))

52,484

S4 TI ((((food* or crop* or staple*) N3 (fortif* or biofortif*)) or ((recycl* or compost* or biodegrad* or plastic*) N3 (pack* or sache*)) or (post-harvest N4 (clean* or winnow* or cann* or mill* or thresh* or hull*)) or ((food* or crop* or grain*) N3 dry*))) OR SU((((food* or crop* or staple*) N3 (fortif* or biofortif*)) or ((recycl* or compost* or biodegrad* or plastic*) N3 (pack* or sache*)) or (post-harvest N4 (clean* or winnow* or cann* or mill* or thresh* or hull*)) or ((food* or crop* or grain*) N3 dry*)))

40,988

S3 TI ((((grain* or crop* or agricultur* or farm* or produce) N4 (silo* or stor* or shed* or warehous*)) or ((agricultur* or farm*) N3 (collection or distribution) N3 (centre* or center* or point* or hub*)) or ((farm* or produce or food* or agricultur*) N4 ("cold chain*" or ((refrigerat* or cold) N3 (truck* or transport* or transit)))) or ((import or imports or importation or export*) N4 (tariff* or quota* or ban* or restrict* or regulat*)) or "trade agreement*")) OR SU((((grain* or crop* or agricultur* or farm* or produce) N4 (silo* or stor* or shed* or warehous*)) or ((agricultur* or farm*) N3 (collection or distribution) N3 (centre* or center* or point* or hub*)) or ((farm* or produce or food* or agricultur*) N4 ("cold chain*" or ((refrigerat* or cold) N3 (truck* or transport* or transit)))) or ((import or imports or importation or export*) N4 (tariff* or quota* or ban* or restrict* or regulat*)) or "trade agreement*"))

131,999

S2 TI (((Food N3 (system or produc*)) or (agricultur* N3 produc*) or aquacultur* or fisher* or livestock* or ((kitchen or home*) N3 (farm* or garden*)) or "nutrition-sensitive" or (improv* N3 (seed* or variet* or crop*)) or (genetic* N3 modif* N3 (food* or organism*)) or GMO* or ((compost* or manure* or mulch* or fertili* or pesticid* or insecticid*) N3 (appl* or spray* or spread* or use or usage)) or ((drought* or pest* or insect*) N3 (toleran* or resist*)) or (rotat* N3 crop*) or (land N3 manage*) or "fixed distance planting" or (plant* N3 (row or rows*)) or ((farm* or crop or agricultur*) N4 subsid*) or (price* N4 purchas* N4 guarantee*) or ((agricultur* or crop* or rain* or weather or index) N4 insurance) or (irrigat* N4 (project* or program* or access* or improv*)) or "water meter*" or (rain* N3 (fed or feed*)) or (trench* N3 hill*) or hilling or "contour bund*" or zai or "water break" or terrac* or ((farm* or agricultur*) N3

(mechani?e* or mechani?ation*)) or intercrop* or (companion N3 (plant* or variet* or species)) or "integrated soil fertility management" or ISFM or (pest N3 manag*))) OR SU(((Food N3 (system or produc*)) or (agricultur* N3 produc*) or aquacultur* or fisher* or livestock* or ((kitchen or home*) N3 (farm* or garden*)) or "nutrition-sensitive" or (improv* N3 (seed* or variet* or crop*)) or (genetic* N3 modif* N3 (food* or organism*)) or GMO* or ((compost* or manure* or mulch* or fertili* or pesticid* or insecticid*) N3 (appl* or spray* or spread* or use or usage)) or ((drought* or pest* or insect*) N3 (toleran* or resist*)) or (rotat* N3 crop*) or (land N3 manage*) or "fixed distance planting" or (plant* N3 (row or rows*)) or ((farm* or crop or agricultur*) N4 subsid*) or (price* N4 purchas* N4 guarantee*) or ((agricultur* or crop* or rain* or weather or index) N4 insurance) or (irrigat* N4 (project* or program* or access* or improv*)) or "water meter*" or (rain* N3 (fed or feed*)) or (trench* N3 hill*) or hilling or "contour bund*" or zai or "water break" or terrac* or ((farm* or agricultur*) N3 (mechani?e* or mechani?ation*)) or intercrop* or (companion N3 (plant* or variet* or species)) or "integrated soil fertility management" or ISFM or (pest N3 manag*)))

2,311,797

S1 TI (((afghanistan OR albania OR algeria OR "american samoa" OR angola OR "antigua and barbuda" OR antigua OR barbuda OR argentina OR armenia OR armenian OR aruba OR azerbaijan OR bahrain OR bangladesh OR barbados OR belarus OR byelarus OR belorussia OR byelorussian OR belize OR "british honduras" OR benin OR dahomey OR bhutan OR bolivia OR "bosnia and herzegovina" OR bosnia OR herzegovina OR botswana OR bechuanaland OR brazil OR brasil OR bulgaria OR "burkina faso" OR "burkina fasso" OR "upper volta" OR burundi OR urundi OR "cabo verde" OR "cape verde" OR cambodia OR kampuchea OR "khmer republic" OR cameroon OR cameron OR cameroun OR "central african republic" OR "ubangi shari" OR chad OR chile OR china OR colombia OR comoros OR "comoro islands" OR "iles comores" OR mayotte OR "democratic republic of the congo" OR "democratic republic congo" OR congo OR zaire OR "costa rica" OR "cote d'ivoire" OR "cote d' ivoire" OR "cote divoire" OR "cote d ivoire" OR "ivory coast" OR croatia OR cuba OR cyprus OR "czech republic" OR czechoslovakia OR djibouti OR "french somaliland" OR dominica OR "dominican republic" OR ecuador OR egypt OR "united arab republic" OR "el salvador" OR "equatorial guinea" OR "spanish guinea" OR eritrea OR estonia OR eswatini OR swaziland OR ethiopia OR fiji OR gabon OR "gabonese republic" OR gambia OR "georgia (republic)" OR georgian OR ghana OR "gold coast" OR gibraltar OR greece OR grenada OR guam OR guatemala OR guinea OR "guinea bissau" OR guyana OR "british guiana" OR haiti OR hispaniola OR honduras OR hungary OR india OR indonesia OR timor OR iran OR iraq OR "isle of man" OR jamaica OR jordan OR kazakhstan OR kazakh OR kenya OR "democratic people's republic of korea" OR "republic of korea" OR "north korea" OR "south korea" OR korea OR kosovo OR kyrgyzstan OR kirghizia OR kirgizstan OR "kyrgyz republic" OR kirghiz OR laos OR "lao pdr" OR "lao people's democratic republic" OR latvia OR lebanon OR "lebanese republic" OR lesotho OR basutoland OR liberia OR libya OR "libyan arab jamahiriya" OR lithuania OR macau OR macao OR "macedonia (republic)" OR macedonia OR madagascar OR "malagasy republic" OR malawi OR nyasaland OR malaysia OR "malay federation" OR "malaya federation" OR maldives OR "indian ocean islands" OR "indian ocean" OR mali OR malta OR micronesia OR "federated states of micronesia" OR kiribati OR "marshall islands" OR nauru OR "northern mariana islands" OR palau OR tuvalu OR mauritania OR mauritius OR mexico OR moldova OR moldovian OR mongolia OR montenegro OR morocco OR ifni OR mozambique OR "portuguese east africa" OR myanmar OR burma OR namibia OR nepal OR "netherlands antilles" OR nicaragua OR niger OR nigeria OR oman OR muscat OR pakistan OR panama OR

"papua new guinea" OR "new guinea" OR paraguay OR peru OR philippines OR philipines OR phillipines OR phillippines OR poland OR "polish people's republic" OR portugal OR "portuguese republic" OR "puerto rico" OR romania OR russia OR "russian federation" OR ussr OR "soviet union" OR "union of soviet socialist republics" OR rwanda OR ruanda OR samoa OR "pacific islands" OR polynesia OR "samoan islands" OR "navigator island" OR "navigator islands" OR "sao tome and principe" OR "saudi arabia" OR senegal OR serbia OR seychelles OR "sierra leone" OR slovakia OR "slovak republic" OR slovenia OR melanesia OR "solomon island" OR "solomon islands" OR "norfolk island" OR "norfolk islands" OR somalia OR "south africa" OR "south sudan" OR "sri lanka" OR ceylon OR "saint kitts and nevis" OR "st. kitts and nevis" OR "saint lucia" OR "st. lucia" OR "saint vincent and the grenadines" OR "saint vincent" OR "st. vincent" OR grenadines OR sudan OR suriname OR surinam OR "dutch guiana" OR "netherlands guiana" OR syria OR "syrian arab republic" OR tajikistan OR tadjikistan OR tadzhikistan OR tadzhik OR tanzania OR tanganyika OR thailand OR siam OR "timor leste" OR "east timor" OR togo OR "togolese republic" OR tonga OR "trinidad and tobago" OR trinidad OR tobago OR tunisia OR turkey OR "turkey (republic)" OR turkmenistan OR turkmen OR uganda OR ukraine OR uruguay OR uzbekistan OR uzbek OR vanuatu OR "new hebrides" OR venezuela OR vietnam OR "viet nam" OR "middle east" OR "west bank" OR gaza OR palestine OR yemen OR yugoslavia OR zambia OR zimbabwe OR "northern rhodesia" OR "global south" OR "africa south of the sahara" OR "sub-saharan africa" OR "subsaharan africa" OR "africa, central" OR "central africa" OR "africa, northern" OR "north africa" OR "northern africa" OR magreb OR maghrib OR sahara OR "africa, southern" OR "southern africa" OR "africa, eastern" OR "east africa" OR "eastern africa" OR "africa, western" OR "west africa" OR "western africa" OR "west indies" OR "indian ocean islands" OR caribbean OR "central america" OR "latin america" OR "south and central america" OR "south america" OR "asia, central" OR "central asia" OR "asia, northern" OR "north asia" OR "northern asia" OR "asia, southeastern" OR "southeastern asia" OR "south eastern asia" OR "southeast asia" OR "south east asia" OR "asia, western" OR "western asia" OR "europe, eastern" OR "east europe" OR "eastern europe" OR "developing country" OR "developing countries" OR "developing nation*" OR "developing population*" OR "developing world" OR "less developed countr*" OR "less developed nation*" OR "less developed population*" OR "less developed world" OR "lesser developed countr*" OR "lesser developed nation*" OR "lesser developed population*" OR "lesser developed world" OR "under developed countr*" OR "under developed nation*" OR "under developed population*" OR "under developed world" OR "underdeveloped countr*" OR "underdeveloped nation*" OR "underdeveloped population*" OR "underdeveloped world" OR "middle income countr*" OR "middle income nation*" OR "middle income population*" OR "low income countr*" OR "low income nation*" OR "low income population*" OR "lower income countr*" OR "lower income nation*" OR "lower income population*" OR "underserved countr*" OR "underserved nation*" OR "underserved population*" OR "underserved world" OR "under served countr*" OR "under served nation*" OR "under served population*" OR "under served world" OR "deprived countr*" OR "deprived nation*" OR "deprived population*" OR "deprived world" OR "poor countr*" OR "poor nation*" OR "poor population*" OR "poor world" OR "poorer countr*" OR "poorer nation*" OR "poorer population*" OR "poorer world" OR "developing econom*" OR "less developed econom*" OR "lesser developed econom*" OR "under developed econom*" OR "underdeveloped econom*" OR "middle income econom*" OR "low income econom*" OR "lower income econom*" OR "low gdp" OR "low gnp" OR "low gross domestic" OR "low gross national" OR "lower gdp" OR "lower gnp" OR "lower gross domestic"

OR "lower gross national" OR lmic OR lmics OR "third world" OR "lami countr*" OR "transitional countr*" OR "emerging econom*" OR "emerging nation*"))) OR AB (((afghanistan OR albania OR algeria OR "american samoa" OR angola OR "antigua and barbuda" OR antigua OR barbuda OR argentina OR armenia OR armenian OR aruba OR azerbaijan OR bahrain OR bangladesh OR barbados OR belarus OR byelarus OR belorussia OR byelorussian OR belize OR "british honduras" OR benin OR dahomey OR bhutan OR bolivia OR "bosnia and herzegovina" OR bosnia OR herzegovina OR botswana OR bechuanaland OR brazil OR brasil OR bulgaria OR "burkina faso" OR "burkina fasso" OR "upper volta" OR burundi OR urundi OR "cabo verde" OR "cape verde" OR cambodia OR kampuchea OR "khmer republic" OR cameroon OR cameron OR cameroun OR "central african republic" OR "ubangi shari" OR chad OR chile OR china OR colombia OR comoros OR "comoro islands" OR "iles comores" OR mayotte OR "democratic republic of the congo" OR "democratic republic congo" OR congo OR zaire OR "costa rica" OR "cote d'ivoire" OR "cote d' ivoire" OR "cote divoire" OR "cote d ivoire" OR "ivory coast" OR croatia OR cuba OR cyprus OR "czech republic" OR czechoslovakia OR djibouti OR "french somaliland" OR dominica OR "dominican republic" OR ecuador OR egypt OR "united arab republic" OR "el salvador" OR "equatorial guinea" OR "spanish guinea" OR eritrea OR estonia OR eswatini OR swaziland OR ethiopia OR fiji OR gabon OR "gabonese republic" OR gambia OR "georgia (republic)" OR georgian OR ghana OR "gold coast" OR gibraltar OR greece OR grenada OR guam OR guatemala OR guinea OR "guinea bissau" OR guyana OR "british guiana" OR haiti OR hispaniola OR honduras OR hungary OR india OR indonesia OR timor OR iran OR iraq OR "isle of man" OR jamaica OR jordan OR kazakhstan OR kazakh OR kenya OR "democratic people's republic of korea" OR "republic of korea" OR "north korea" OR "south korea" OR korea OR kosovo OR kyrgyzstan OR kirghizia OR kirgizstan OR "kyrgyz republic" OR kirghiz OR laos OR "lao pdr" OR "lao people's democratic republic" OR latvia OR lebanon OR "lebanese republic" OR lesotho OR basutoland OR liberia OR libya OR "libyan arab jamahiriya" OR lithuania OR macau OR macao OR "macedonia (republic)" OR macedonia OR madagascar OR "malagasy republic" OR malawi OR nyasaland OR malaysia OR "malay federation" OR "malaya federation" OR maldives OR "indian ocean islands" OR "indian ocean" OR mali OR malta OR micronesia OR "federated states of micronesia" OR kiribati OR "marshall islands" OR nauru OR "northern mariana islands" OR palau OR tuvalu OR mauritania OR mauritius OR mexico OR moldova OR moldovian OR mongolia OR montenegro OR morocco OR ifni OR mozambique OR "portuguese east africa" OR myanmar OR burma OR namibia OR nepal OR "netherlands antilles" OR nicaragua OR niger OR nigeria OR oman OR muscat OR pakistan OR panama OR "papua new guinea" OR "new guinea" OR paraguay OR peru OR philippines OR philipines OR phillipines OR phillippines OR poland OR "polish people's republic" OR portugal OR "portuguese republic" OR "puerto rico" OR romania OR russia OR "russian federation" OR ussr OR "soviet union" OR "union of soviet socialist republics" OR rwanda OR ruanda OR samoa OR "pacific islands" OR polynesia OR "samoan islands" OR "navigator island" OR "navigator islands" OR "sao tome and principe" OR "saudi arabia" OR senegal OR serbia OR seychelles OR "sierra leone" OR slovakia OR "slovak republic" OR slovenia OR melanesia OR "solomon island" OR "solomon islands" OR "norfolk island" OR "norfolk islands" OR somalia OR "south africa" OR "south sudan" OR "sri lanka" OR ceylon OR "saint kitts and nevis" OR "st. kitts and nevis" OR "saint lucia" OR "st. lucia" OR "saint vincent and the grenadines" OR "saint vincent" OR "st. vincent" OR grenadines OR sudan OR suriname OR surinam OR "dutch guiana" OR "netherlands guiana" OR syria OR "syrian arab republic" OR tajikistan OR tadjikistan OR tadzhikistan OR tadzhik OR tanzania OR

tanganyika OR thailand OR siam OR "timor leste" OR "east timor" OR togo OR "togolese republic" OR tonga OR "trinidad and tobago" OR trinidad OR tobago OR tunisia OR turkey OR "turkey (republic)" OR turkmenistan OR turkmen OR uganda OR ukraine OR uruguay OR uzbekistan OR uzbek OR vanuatu OR "new hebrides" OR venezuela OR vietnam OR "viet nam" OR "middle east" OR "west bank" OR gaza OR palestine OR yemen OR yugoslavia OR zambia OR zimbabwe OR "northern rhodesia" OR "global south" OR "africa south of the sahara" OR "sub-saharan africa" OR "subsaharan africa" OR "africa, central" OR "central africa" OR "africa, northern" OR "north africa" OR "northern africa" OR magreb OR maghrib OR sahara OR "africa, southern" OR "southern africa" OR "africa, eastern" OR "east africa" OR "eastern africa" OR "africa, western" OR "west africa" OR "western africa" OR "west indies" OR "indian ocean islands" OR caribbean OR "central america" OR "latin america" OR "south and central america" OR "south america" OR "asia, central" OR "central asia" OR "asia, northern" OR "north asia" OR "northern asia" OR "asia, southeastern" OR "southeastern asia" OR "south eastern asia" OR "southeast asia" OR "south east asia" OR "asia, western" OR "western asia" OR "europe, eastern" OR "east europe" OR "eastern europe" OR "developing country" OR "developing countries" OR "developing nation*" OR "developing population*" OR "developing world" OR "less developed countr*" OR "less developed nation*" OR "less developed population*" OR "less developed world" OR "lesser developed countr*" OR "lesser developed nation*" OR "lesser developed population*" OR "lesser developed world" OR "under developed countr*" OR "under developed nation*" OR "under developed population*" OR "under developed world" OR "underdeveloped countr*" OR "underdeveloped nation*" OR "underdeveloped population*" OR "underdeveloped world" OR "middle income countr*" OR "middle income nation*" OR "middle income population*" OR "low income countr*" OR "low income nation*" OR "low income population*" OR "lower income countr*" OR "lower income nation*" OR "lower income population*" OR "underserved countr*" OR "underserved nation*" OR "underserved population*" OR "underserved world" OR "under served countr*" OR "under served nation*" OR "under served population*" OR "under served world" OR "deprived countr*" OR "deprived nation*" OR "deprived population*" OR "deprived world" OR "poor countr*" OR "poor nation*" OR "poor population*" OR "poor world" OR "poorer countr*" OR "poorer nation*" OR "poorer population*" OR "poorer world" OR "developing econom*" OR "less developed econom*" OR "lesser developed econom*" OR "under developed econom*" OR "underdeveloped econom*" OR "middle income econom*" OR "low income econom*" OR "lower income econom*" OR "low gdp" OR "low gnp" OR "low gross domestic" OR "low gross national" OR "lower gdp" OR "lower gnp" OR "lower gross domestic" OR "lower gross national" OR lmic OR lmics OR "third world" OR "lami countr*" OR "transitional countr*" OR "emerging econom*" OR "emerging nation*"))) OR SU (((afghanistan OR albania OR algeria OR "american samoa" OR angola OR "antigua and barbuda" OR antigua OR barbuda OR argentina OR armenia OR armenian OR aruba OR azerbaijan OR bahrain OR bangladesh OR barbados OR belarus OR byelarus OR belorussia OR byelorussian OR belize OR "british honduras" OR benin OR dahomey OR bhutan OR bolivia OR "bosnia and herzegovina" OR bosnia OR herzegovina OR botswana OR bechuanaland OR brazil OR brasil OR bulgaria OR "burkina faso" OR "burkina fasso" OR "upper volta" OR burundi OR urundi OR "cabo verde" OR "cape verde" OR cambodia OR kampuchea OR "khmer republic" OR cameroon OR cameron OR cameroun OR "central african republic" OR "ubangi shari" OR chad OR chile OR china OR colombia OR comoros OR "comoro islands" OR "iles comores" OR mayotte OR "democratic republic of the congo" OR "democratic republic congo" OR congo OR zaire OR "costa rica" OR "cote d'ivoire"

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Cochrane Library – Searched 27th May 2020

#1 (afghanistan OR albania OR algeria OR "american samoa" OR angola OR "antigua and barbuda" OR antigua OR barbuda OR argentina OR armenia OR armenian OR aruba OR azerbaijan OR bahrain OR bangladesh OR barbados OR "republic of belarus" OR belarus OR byelarus OR belorussia OR byelorussian OR belize OR "british honduras" OR benin OR dahomey OR bhutan OR bolivia OR "bosnia and herzegovina" OR bosnia OR herzegovina OR botswana OR bechuanaland OR brazil OR brasil OR bulgaria OR "burkina faso" OR "burkina fasso" OR "upper volta" OR burundi OR urundi OR "cabo verde" OR "cape verde" OR cambodia OR kampuchea OR "khmer republic" OR cameroon OR cameron OR cameroun OR "central african republic" OR "ubangi shari" OR chad OR chile OR china OR colombia OR comoros OR "comoro islands" OR "iles comores" OR mayotte OR "democratic republic of the congo" OR "democratic republic congo" OR congo OR zaire OR "costa rica" OR "cote d'ivoire" OR "cote d' ivoire" OR "cote divoire" OR "cote d ivoire" OR "ivory coast" OR croatia OR cuba OR cyprus OR "czech republic" OR czechoslovakia OR djibouti OR "french somaliland" OR dominica OR "dominican republic" OR ecuador OR egypt OR "united arab republic" OR "el salvador" OR "equatorial guinea" OR "spanish guinea" OR eritrea OR estonia OR eswatini OR swaziland OR ethiopia OR fiji OR gabon OR "gabonese republic" OR gambia OR "georgia (republic)" OR georgia OR georgian OR ghana OR "gold coast" OR gibraltar OR greece OR grenada OR guam OR guatemala OR guinea OR

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#2 ((("farm* field school*" or (farm* near/3 (train* or (build near/3 capacity))) or "demonstration plot*" or ((agricultur* or rural) near extension) or farm*) near/3 educat*) or (farm* near/3 (organi?ation* or group* or cooperative* or co-op* or club*)) or (("social protection" or microfinance or "micro finance" or microloan* or "micro loan*") near/4 (farm* or smallholder* or agricultur*))):ti,ab,kw

#3 ((Food near/3 (system or produc*)) or (agricultur* near/3 produc*) or aquacultur* or fisher* or livestock* or ((kitchen or home*) near/3 (farm* or garden*)) or "nutrition-sensitive" or (improv* near/3 (seed* or variet* or crop*)) or (genetic* near modif* near (food* or organism*)) or GMO* or ((compost* or manure* or mulch* or fertili* or pesticid* or insecticid*) near/3 (appl* or spray* or spread* or "use" or usage)) or ((drought* or pest* or insect*) near/3 (toleran* or resist*)) or (rotat* near/3 crop*) or (land near/3 manage*) or "fixed distance planting" or (plant* near/3 row?) or ((farm* or crop or agricultur*) near/6 subsid*) or (price* near/6 purchas* near/6 guarantee*) or ((agricultur* or crop* or rain* or weather or index) near/6 insurance) or (irrigat* near/6 (project* or program* or access* or improv*)) or "water meter*" or (rain* near/3 (fed or feed*)) or (trench* near/3 hill*) or hilling or "contour bund*" or zai

or "water break" or terrac* or ((farm* or agricultur*) near/3 (mechani?e* or mechani?ation*)) or intercrop* or (companion near/3 (plant* or variet* or species)) or "integrated soil fertility management" or ISFM or (pest near/3 manage*)):ti,ab,kw
#4 (((grain* or crop* or agricultur* or aquacultur* or farm* or produce) near/6 (silo* or stor* or shed* or warehous*)) or ((agricultur* or farm*) near/3 (collect* or distribut*) near/3 (centre* or center* or point* or hub*)) or ((farm* or produce or food* or agricultur*) near/6 ("cold chain*" or ((refrigerat* or cold) near/3 (truck* or transport* or transit)))) or ((import? or importation or export*) near/6 (tariff* or quota* or ban* or restrict* or regulat*)) or "trade agreement*"):ti,ab,kw
#5 (((food* or crop* or staple*) near/3 (fortif* or biofortif*)) or ((recycl* or compost* or biodegrad* or plastic*) near/3 (pack* or sache*)) or (post-harvest near/6 (clean* or winnow* or cann* or mill* or thresh* or hull*)) or ((food* or crop* or grain*) near/3 dry*)):ti,ab,kw
#6 ((food near/3 (loss* or wast*)) or ((food* or grocer* or soup) near/6 (donat* or pantr* or bank* or kitchen* or transfer*)) or (food* near/6 near* near/6 spoil*)):ti,ab,kw
#7 ("food environment*" or (zoning and (food* near/3 (security or access*))) or ((sugar* or SSB or "unhealthy food*") near3 tax*) or nudg* or ((food* or eat* or feed* or meal* or diet*) near/6 (deci* or ((cultur* or social) near/3 (norm* or preferen*)))) or "ration shop*" or "farmer* market*" or "food desert*" or ((food or grocer*) near/3 retail* near/3 (tax* or subsid* or incentiv*)) or (school* near/6 (meal* or feed* or food* or lunch*))):ti,ab,kw
#8 (((food* or consumer*) near/6 (subsid* or "price control*")) or (food* near/6 (cash or "social assistance" or "social safety net" or voucher* or welfare))):ti,ab,kw
#9 ((food* near/6 ((advertis* or label* or market*) near/3 (ban* or restrict* or regulat* or polic* or law* or legislat*))) or ((supermarket or ((food* or grocer* or convenience or corner) near (store* or market*))) near/6 (design* or redesign* or re-design* or layout* or innovat*)) or (front near/3 pack* near/3 label*)):ti,ab,kw
#10 ((food* near/3 (safe* or quality) near/3 (regulat* or restrict* or polic* or law* or legislat* or inspect*)) or (food* near/3 certif*)):ti,ab,kw
#11 (cook* or ((meal* or food*) near/3 prepar*) or (wom?n near/6 (food* or eat* or feed* or meal* or diet*) near/6 (empower* or deci*)) or ((food* or eat* or feed* or breastfeed* or "breast feed*" or meal* or diet* or "F&V") near/6 (inform* or educat* or promot* or campaign* or media or initiative* or (peer near (counsel* or support)) or (community near/3 (meet* or class* or engag* or participat*)) or "door-to-door"))):ti,ab,kw
#12 [mh ^Agriculture] or [mh ^"Agricultural Irrigation"] or [mh ^"Animal Husbandry"]
#13 [mh ^Aquaculture] or [mh ^Beekeeping] or [mh ^"Crop Production"] or [mh ^"Crop Protection"] or [mh ^Dairying] or [mh ^Domestication] or [mh ^Farms] or [mh ^Gardens] or [mh ^Horticulture] or [mh ^Hydroponics] or [mh ^"Organic Agriculture"] or [mh ^"Weed Control"] or [mh ^"Food Assistance"]
#14 [mh ^"Food Safety"] or [mh ^"Food Contamination"] or [mh ^"Food Inspection"] or [mh ^"Hazard Analysis Critical Control Points"] or [mh ^"Nutritive Value"] or [mh ^"Glycemic Index"] or [mh ^"Glycemic Load"] or [mh ^"Nutrition Policy"] or [mh ^"Recommended Dietary Allowances"] or [mh ^"Nutrition Therapy"] or [mh ^"Diet Therapy"] or [mh ^"Nutritional Support"]
#15 [mh ^Abattoirs] or [mh ^"Food Quality"]
#16 [mh ^"Meat-Packing Industry"]
#17 [mh ^"Food Packaging"] or [mh ^"Edible Films"]
#18 [mh ^"Food Labeling"] or [mh ^"Food Preservation"]
#19 [mh ^"Food Storage"]
#20 [mh ^"Food-Processing Industry"]

#21 {OR #2-#20}
#22 **#1 AND #21 with Cochrane Library publication date Between Jan 2000 and May 2020 – 4447 hits**

Embase Classic+Embase <1947 to 2020 May 27> - Searched 28th May 2020

1 (afghanistan or albania or algeria or american samoa or angola or "antigua and barbuda" or antigua or barbuda or argentina or armenia or armenian or aruba or azerbaijan or bahrain or bangladesh or barbados or republic of belarus or belarus or byelarus or belorussia or byelorussian or belize or british honduras or benin or dahomey or bhutan or bolivia or "bosnia and herzegovina" or bosnia or herzegovina or botswana or bechuanaland or brazil or brasil or bulgaria or burkina faso or burkina fasso or upper volta or burundi or urundi or cabo verde or cape verde or cambodia or kampuchea or khmer republic or cameroon or cameron or cameroun or central african republic or ubangi shari or chad or chile or china or colombia or comoros or comoro islands or iles comores or mayotte or democratic republic of the congo or democratic republic congo or congo or zaire or costa rica or "cote d'ivoire" or "cote d' ivoire" or cote divoire or cote d ivoire or ivory coast or croatia or cuba or cyprus or czech republic or czechoslovakia or djibouti or french somaliland or dominica or dominican republic or ecuador or egypt or united arab republic or el salvador or equatorial guinea or spanish guinea or eritrea or estonia or eswatini or swaziland or ethiopia or fiji or gabon or gabonese republic or gambia or "georgia (republic)" or georgian or ghana or gold coast or gibraltar or greece or grenada or guam or guatemala or guinea or guinea bissau or guyana or british guiana or haiti or hispaniola or honduras or hungary or india or indonesia or timor or iran or iraq or isle of man or jamaica or jordan or kazakhstan or kazakh or kenya or "democratic people's republic of korea" or republic of korea or north korea or south korea or korea or kosovo or kyrgyzstan or kirghizia or kirgizstan or kyrgyz republic or kirghiz or laos or lao pdr or "lao people's democratic republic" or latvia or lebanon or lebanese republic or lesotho or basutoland or liberia or libya or libyan arab jamahiriya or lithuania or macau or macao or "macedonia (republic)" or macedonia or madagascar or malagasy republic or malawi or nyasaland or malaysia or malay federation or malaya federation or maldives or indian ocean islands or indian ocean or mali or malta or micronesia or federated states of micronesia or kiribati or marshall islands or nauru or northern mariana islands or palau or tuvalu or mauritania or mauritius or mexico or moldova or moldovian or mongolia or montenegro or "montenegro (republic)" or morocco or ifni or mozambique or portuguese east africa or myanmar or burma or namibia or nepal or netherlands antilles or nicaragua or niger or nigeria or oman or muscat or pakistan or panama or papua new guinea or new guinea or paraguay or peru or philippines or philipines or phillipines or phillippines or poland or "polish people's republic" or portugal or portuguese republic or puerto rico or romania or russia or russian federation or ussr or soviet union or union of soviet socialist republics or rwanda or ruanda or samoa or pacific islands or polynesia or samoan islands or navigator island or navigator islands or "sao tome and principe" or saudi arabia or senegal or serbia or seychelles or sierra leone or slovakia or slovak republic or slovenia or melanesia or solomon island or solomon islands or norfolk island or norfolk islands or somalia or south africa or south sudan or sri lanka or ceylon or "saint kitts and nevis" or "st. kitts and nevis" or saint lucia or

"st. lucia" or "saint vincent and the grenadines" or saint vincent or "st. vincent" or grenadines or sudan or suriname or surinam or dutch guiana or netherlands guiana or syria or syrian arab republic or tajikistan or tadjikistan or tadzhikistan or tadzhik or tanzania or tanganyika or thailand or siam or timor leste or east timor or togo or togolese republic or tonga or "trinidad and tobago" or trinidad or tobago or tunisia or turkey or "turkey (republic)" or turkmenistan or turkmen or uganda or ukraine or uruguay or uzbekistan or uzbek or vanuatu or new hebrides or venezuela or vietnam or viet nam or middle east or west bank or gaza or palestine or yemen or yugoslavia or zambia or zimbabwe or northern rhodesia or global south or africa south of the sahara or "sub saharan africa" or subsaharan africa or africa, central or central africa or africa, northern or north africa or northern africa or magreb or maghrib or sahara or africa, southern or southern africa or africa, eastern or east africa or eastern africa or africa, western or west africa or western africa or west indies or indian ocean islands or caribbean region or caribbean islands or caribbean or central america or latin america or "south and central america" or south america or asia, central or central asia or asia, northern or north asia or northern asia or asia, southeastern or southeastern asia or south eastern asia or southeast asia or south east asia or asia, western or western asia or europe, eastern or east europe or eastern europe or developing country or developing countries or developing nation? or developing population? or developing world or less developed countr* or less developed nation? or less developed population? or less developed world or lesser developed countr* or lesser developed nation? or lesser developed population? or lesser developed world or under developed countr* or under developed nation? or under developed population? or under developed world or underdeveloped countr* or underdeveloped nation? or underdeveloped population? or underdeveloped world or middle income countr* or middle income nation? or middle income population? or low income countr* or low income nation? or low income population? or lower income countr* or lower income nation? or lower income population? or underserved countr* or underserved nation? or underserved population? or underserved world or under served countr* or under served nation? or under served population? or under served world or deprived countr* or deprived nation? or deprived population? or deprived world or poor countr* or poor nation? or poor population? or poor world or poorer countr* or poorer nation? or poorer population? or poorer world or developing econom* or less developed econom* or lesser developed econom* or under developed econom* or underdeveloped econom* or middle income econom* or low income econom* or lower income econom* or low gdp or low gnp or low gross domestic or low gross national or lower gdp or lower gnp or lower gross domestic or lower gross national or lmic or lmics or third world or lami countr* or transitional countr* or emerging economy or emerging economies or emerging nation?).ti,ab,sh,kw. (2310960)

2 ((Food adj3 (system or produc*)) or (agricultur* adj3 produc*) or aquacultur* or fisher* or livestock* or ((kitchen or home*) adj3 (farm* or garden*)) or "nutrition-sensitive" or (improv* adj3 (seed* or variet* or crop*)) or (genetic* adj3 modif* adj3 (food* or organism*)) or GMO* or ((compost* or manure* or mulch* or fertili* or pesticid* or insecticid*) adj3 (appl* or spray* or spread* or "use" or usage)) or ((drought* or pest* or insect*) adj3 (toleran* or resist*)) or (rotat* adj3 crop*) or (land adj3 manage*) or "fixed distance planting" or (plant* adj3 (row or rows*)) or ((farm* or crop or agricultur*) adj4 subsid*) or (price* adj4 purchas* adj4 guarantee*) or ((agricultur* or crop* or rain* or weather or index) adj4 insurance) or (irrigat* adj4 (project* or program* or access* or improv*)) or "water meter*" or (rain* adj3 (fed or feed*)) or (trench* adj3 hill*) or hilling or "contour bund*" or zai or "water break" or terrac* or ((farm* or agricultur*) adj3 (mechani?e* or mechani?ation*)) or intercrop*

or (companion adj3 (plant* or variet* or species)) or "integrated soil fertility management" or ISFM or (pest adj3 manag*)).ti,ab,kw. (235400)
3 agriculture/ or agricultural irrigation/ or aquaculture/ or fisheries/ or crop production/ or crop protection/ or organic agriculture/ or weed control/ or gardens/ or horticulture/ (82828)
4 (((grain* or crop* or agricultur* or farm* or produce) adj4 (silo* or stor* or shed* or warehous*)) or ((agricultur* or farm*) adj3 (collection or distribution) adj3 (centre* or center* or point* or hub*)) or ((farm* or produce or food* or agricultur*) adj4 ("cold chain*" or ((refrigerat* or cold) adj3 (truck* or transport* or transit)))) or ((import or imports or importation or export*) adj4 (tariff* or quota* or ban* or restrict* or regulat*)) or "trade agreement*").ti,ab,kw. (6673)
5 food industry/ or food storage/ (31179)
6 (((food* or crop* or staple*) adj3 (fortif* or biofortif*)) or ((recycl* or compost* or biodegrad* or plastic*) adj3 (pack* or sache*)) or (post-harvest adj4 (clean* or winnow* or cann* or mill* or thresh* or hull*)) or ((food* or crop* or grain*) adj3 dry*)).ti,ab,kw. (7772)
7 biofortification/ or food packaging/ (10825)
8 ((food adj3 (loss* or wast*)) or ((food* or grocer* or soup) adj4 (donat* or pantr* or bank* or kitchen* or transfer*)) or (food* adj4 near* adj4 spoil*)).ti,ab,kw. (8101)
9 ("food environment*" or (zoning and (food* adj3 (security or access*))) or ((sugar* or SSB or "unhealthy food*") adj3 tax*) or nudg* or ((food* or eat* or feed* or meal* or diet*) adj4 (deci* or ((cultur* or social) adj3 (norm* or preferen*)))) or "ration shop*" or "farmer* market*" or "food desert*" or ((food or grocer*) adj3 retail* adj3 (tax* or subsid* or incentiv*)) or (school* adj4 (meal* or feed* or food* or lunch*))).ti,ab,kw. (14797)
10 (((food* or consumer*) adj4 (subsid* or "price control*")) or (food* adj4 (cash or "social assistance" or "social safety net" or voucher* or welfare))).ti,ab,kw. (1031)
11 ((food* adj4 ((advertis* or label* or market*) adj3 (ban* or restrict* or regulat* or polic* or law* or legislat*))) or ((supermarket or ((food* or grocer* or convenience or corner) adj1 (store* or market*))) adj4 (design* or redesign* or re-design* or layout* or innovat*)) or (front adj3 pack* adj3 label*)).ti,ab,kw. (1129)
12 Food Labeling/ (10252)
13 ((food* adj3 (safe* or quality) adj3 (regulat* or restrict* or polic* or law* or legislat* or inspect*)) or (food* adj3 certif*)).ti,ab,kw. (1310)
14 food safety/ or food inspection/ (40214)
15 (cook* or ((meal* or food*) adj3 prepar*) or (wom?n adj4 (food* or eat* or feed* or meal* or diet*) adj4 (empower* or deci*)) or ((food* or eat* or feed* or breastfeed* or "breast feed*" or meal* or diet* or "F&V") adj4 (inform* or educat* or promot* or campaign* or media or initiative* or (peer adj1 (counsel* or support)) or (community adj3 (meet* or class* or engag* or participat*)) or "door-to-door"))).ti,ab,kw. (95892)
16 (Community Participation/ or Feeding Behavior/) and (Breast Feeding/ or food/ or meals/ or diet, healthy/) (7794)
17 ("farm* field school*" or (farm* adj3 (train* or (build adj3 capacity))) or "demonstration plot*" or ((agricultur* or rural) adj1 extension) or (farm* adj3 educat*) or (farm* adj3 (organi?ation* or group* or cooperative* or co-op* or club*)) or (("social protection" or microfinance or "micro finance" or microloan* or "micro loan*") adj4 (farm* or smallholder* or agricultur*))).ti,ab,kw. (2833)
18 or/2-17 (479418)
19 (random* or experiment* or (match* adj2 (propensity or coarsened or covariate)) or "propensity score" or ("difference in difference*" or "difference-in-difference*" or "differences in difference*" or "differences-in-difference*" or "double difference*") or ("quasi-experimental" or "quasi experimental" or "quasi-experiment"

or "quasi experiment") or ((estimator or counterfactual) and evaluation*) or "instrumental variable*" or (IV adj2 (estimation or approach)) or regression discontinuity or time series or segment* regression or (non adj2 participant*) or ((control or comparison) adj2 (group* or condition* or area* or intervention))).ti,ab,kw. (4483120)
20 randomized controlled trial/ or equivalence trial/ or pragmatic clinical trial/ or meta-analysis/ or propensity score/ or Interrupted Time Series Analysis/ or control groups/ or random allocation/ (1193928)
21 ("systematic review" or "literature review").ti,ab,kw. (302896)
22 "systematic review"/ or "Review Literature as Topic"/ (289396)
23 or/19-22 (5144942)
24 1 and 18 and 23 (15886)
25 limit 24 to yr="2000 -Current" (14369)
26 limit 25 to embase (7216)
27 limit 26 to exclude medline journals (**1638**)

World Health Organization Global Index Medicus – Searched 28th May 2020

(tw:("food system" or "food systems" or farm or farms or farming)) AND (tw:((random* or experiment* or (match* AND (propensity or coarsened or covariate)) or "propensity score" or ("difference in difference*" or "difference-in-difference*" or "differences in difference*" or "differences-in-difference*" or "double difference*") or ("quasi-experimental" or "quasi experimental" or "quasi-experiment" or "quasi experiment" or "systematic review" or "literature review") or ((estimator or counterfactual) and evaluation*) or "instrumental variable*" or (IV AND (estimation or approach)) or "regression discontinuity" or "time series" or "segment* regression" or (non AND participant*) or ((control or comparison) AND (group* or condition* or area* or intervention)))))) – **2047 hits**

Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Daily and Versions(R) <1946 to May 22, 2020> - Searched 27th May 2020

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1 (random* or experiment* or (match* adj2 (propensity or coarsened or covariate)) or "propensity score" or ("difference in difference*" or "difference-in-difference*" or "differences in difference*" or "differences-in-difference*" or "double difference*") or ("quasi-experimental" or "quasi experimental" or "quasi-experiment" or "quasi experiment") or ((estimator or counterfactual) and evaluation*) or "instrumental variable*" or (IV adj2 (estimation or approach)) or regression discontinuity or time series or segment* regression or (non adj2 participant*) or ((control or comparison) adj2 (group* or condition* or area* or intervention))).ti,ab,kw. (3518882)
2 Randomized Controlled Trial/ or Random Allocation/ or Evaluation Studies/ or Propensity Score/ or Interrupted Time Series Analysis/ or Controlled Before-After Studies/ or Controlled Clinical Trial/ or Non-Randomized Controlled Trials as Topic/ (935658)
3 1 or 2 (3938796)
4 Systematic Review/ (127969)

5 (systematic review or meta-analysis).pt. (189882)
6 cochrane database of systematic reviews.jn. (14833)
7 (systematic review or literature review or meta-analy* or metaanaly* or meta analy*).ti. (221241)
8 5 or 6 or 7 (276569)
9 3 or 8 (4104305)
10 Africa/ or Asia/ or Caribbean/ or West Indies/ or South America/ or Latin America/ or Central America/ (76408)
11 (afghanistan or albania or algeria or "american samoa" or angola or "antigua and barbuda" or antigua or barbuda or argentina or armenia or armenian or aruba or azerbaijan or bahrain or bangladesh or barbados or belarus or byelarus or belorussia or byelorussian or belize or "british honduras" or benin or dahomey or bhutan or bolivia or "bosnia and herzegovina" or bosnia or herzegovina or botswana or bechuanaland or brazil or brasil or bulgaria or "burkina faso" or "burkina fasso" or "upper volta" or burundi or urundi or "cabo verde" or "cape verde" or cambodia or kampuchea or "khmer republic" or cameroon or cameron or cameroun or "central african republic" or "ubangi shari" or chad or chile or china or colombia or comoros or "comoro islands" or "iles comores" or mayotte or "democratic republic of the congo" or "democratic republic congo" or congo or zaire or "costa rica" or "cote d'ivoire" or "cote d' ivoire" or "cote divoire" or "cote d ivoire" or "ivory coast" or croatia or cuba or cyprus or "czech republic" or czechoslovakia or djibouti or "french somaliland" or dominica or "dominican republic" or ecuador or egypt or "united arab republic" or "el salvador" or "equatorial guinea" or "spanish guinea" or eritrea or estonia or eswatini or swaziland or ethiopia or fiji or gabon or "gabonese republic" or gambia or "georgia (republic)" or georgian or ghana or "gold coast" or gibraltar or greece or grenada or guam or guatemala or guinea or "guinea bissau" or guyana or "british guiana" or haiti or hispaniola or honduras or hungary or india or indonesia or timor or iran or iraq or "isle of man" or jamaica or jordan or kazakhstan or kazakh or kenya or "democratic people's republic of korea" or "republic of korea" or "north korea" or "south korea" or korea or kosovo or kyrgyzstan or kirghizia or kirgizstan or "kyrgyz republic" or kirghiz or laos or "lao pdr" or "lao people's democratic republic" or latvia or lebanon or "lebanese republic" or lesotho or basutoland or liberia or libya or "libyan arab jamahiriya" or lithuania or macau or macao or "macedonia (republic)" or macedonia or madagascar or "malagasy republic" or malawi or nyasaland or malaysia or "malay federation" or "malaya federation" or maldives or "indian ocean islands" or "indian ocean" or mali or malta or micronesia or "federated states of micronesia" or kiribati or "marshall islands" or nauru or "northern mariana islands" or palau or tuvalu or mauritania or mauritius or mexico or moldova or moldovian or mongolia or montenegro or morocco or ifni or mozambique or "portuguese east africa" or myanmar or burma or namibia or nepal or "netherlands antilles" or nicaragua or niger or nigeria or oman or muscat or pakistan or panama or "papua new guinea" or "new guinea" or paraguay or peru or philippines or philipines or phillipines or phillippines or poland or "polish people's republic" or portugal or "portuguese republic" or "puerto rico" or romania or russia or "russian federation" or ussr or "soviet union" or "union of soviet socialist republics" or rwanda or ruanda or samoa or "pacific islands" or polynesia or "samoan islands" or "navigator island" or "navigator islands" or "sao tome and principe" or "saudi arabia" or senegal or serbia or seychelles or "sierra leone" or slovakia or "slovak republic" or slovenia or melanesia or "solomon island" or "solomon islands" or "norfolk island" or "norfolk islands" or somalia or "south africa" or "south sudan" or "sri lanka" or ceylon or "saint kitts and nevis" or "st. kitts and nevis" or "saint lucia" or "st. lucia" or "saint vincent and the grenadines" or "saint vincent" or "st. vincent" or grenadines or sudan or suriname or surinam or "dutch

guiana" or "netherlands guiana" or syria or "syrian arab republic" or tajikistan or tadjikistan or tadzhikistan or tadzhik or tanzania or tanganyika or thailand or siam or "timor leste" or "east timor" or togo or "togolese republic" or tonga or "trinidad and tobago" or trinidad or tobago or tunisia or turkey or "turkey (republic)" or turkmenistan or turkmen or uganda or ukraine or uruguay or uzbekistan or uzbek or vanuatu or "new hebrides" or venezuela or vietnam or "viet nam" or "middle east" or "west bank" or gaza or palestine or yemen or yugoslavia or zambia or zimbabwe or "northern rhodesia" or "global south" or "africa south of the sahara" or "sub-saharan africa" or "subsaharan africa" or "africa, central" or "central africa" or "africa, northern" or "north africa" or "northern africa" or magreb or maghrib or sahara or "africa, southern" or "southern africa" or "africa, eastern" or "east africa" or "eastern africa" or "africa, western" or "west africa" or "western africa" or "west indies" or "indian ocean islands" or caribbean or "central america" or "latin america" or "south and central america" or "south america" or "asia, central" or "central asia" or "asia, northern" or "north asia" or "northern asia" or "asia, southeastern" or "southeastern asia" or "south eastern asia" or "southeast asia" or "south east asia" or "asia, western" or "western asia" or "europe, eastern" or "east europe" or "eastern europe" or "developing country" or "developing countries" or "developing nation*" or "developing population*" or "developing world" or "less developed countr*" or "less developed nation*" or "less developed population*" or "less developed world" or "lesser developed countr*" or "lesser developed nation*" or "lesser developed population*" or "lesser developed world" or "under developed countr*" or "*under developed nation*" or "under developed population*" or "under developed world" or "underdeveloped countr*" or "underdeveloped nation*" or "underdeveloped population*" or "underdeveloped world" or "middle income countr*" or "middle income nation*" or "middle income population*" or "low income countr*" or "low income nation*" or "low income population*" or "lower income countr*" or "lower income nation*" or "lower income population*" or "underserved countr*" or "underserved nation*" or "underserved population*" or "underserved world" or "under served countr*" or "under served nation*" or "under served population*" or "under served world" or "deprived countr*" or "deprived nation*" or "deprived population*" or "deprived world" or "poor countr*" or "poor nation*" or "poor population*" or "poor world" or "poorer countr*" or "poorer nation*" or "poorer population*" or "poorer world" or "developing econom*" or "less developed econom*" or "lesser developed econom*" or "under developed econom*" or "underdeveloped econom*" or "middle income econom*" or "low income econom*" or "lower income econom*" or "low gdp" or "low gnp" or "low gross domestic" or "low gross national" or "lower gdp" or "lower gnp" or "lower gross domestic" or "lower gross national" or lmic or lmics or "third world" or "lami countr*" or "transitional countr*" or "emerging econom*" or "emerging nation*").ti,ab,kw,sh. (1891302)

12 or/10-11 (1912281)

13 9 and 12 (239411)

14 Agriculture/ or Agricultural Irrigation/ or Animal Husbandry/ or Aquaculture/ or Beekeeping/ or Crop Production/ or Crop Protection/ or Dairying/ or Domestication/ or Farms/ or Gardens/ or Horticulture/ or Hydroponics/ or Organic Agriculture/ or Weed Control/ or Food Assistance/ or Food Packaging/ or Edible Films/ or Food Labeling/ or Food Preservation/ or Food Storage/ or Food-Processing Industry/ or Meat-Packing Industry/ or Abattoirs/ or Food Quality/ or Food Safety/ or Food Contamination/ or Food Inspection/ or Hazard Analysis Critical Control Points/ or Nutritive Value/ or Glycemic Index/ or Glycemic Load/ or Nutrition Policy/ or Recommended Dietary Allowances/ or Nutrition Therapy/ or Diet Therapy/ or Nutritional Support/ (201674)

15 (((farm* field school* or (farm* adj3 (train* or (build adj3 capacity))) or demonstration plot* or ((agricultur* or rural) adj extension) or farm*) adj3 educat*) or (farm* adj3 (organi#ation* or group* or cooperative* or co-op* or club*)) or (("social protection" or microfinance or "micro finance" or microloan* or "micro loan*") adj4 (farm* or smallholder* or agricultur*))).ti,ab,kw. (1986)
16 ((Food adj3 (system or produc*)) or (agricultur* adj3 produc*) or aquacultur* or fisher* or livestock* or ((kitchen or home*) adj3 (farm* or garden*)) or "nutrition-sensitive" or (improv* adj3 (seed* or variet* or crop*)) or (genetic* adj modif* adj (food* or organism*)) or GMO* or ((compost* or manure* or mulch* or fertili* or pesticid* or insecticid*) adj3 (appl* or spray* or spread* or "use" or usage)) or ((drought* or pest* or insect*) adj3 (toleran* or resist*)) or (rotat* adj3 crop*) or (land adj3 manage*) or "fixed distance planting" or (plant* adj3 row?) or ((farm* or crop or agricultur*) adj6 subsid*) or (price* adj6 purchas* adj6 guarantee*) or ((agricultur* or crop* or rain* or weather or index) adj6 insurance) or (irrigat* adj6 (project* or program* or access* or improv*)) or "water meter*" or (rain* adj3 (fed or feed*)) or (trench* adj3 hill*) or hilling or contour bund* or zai or "water break" or terrac* or ((farm* or agricultur*) adj3 (mechani#e* or mechani#ation*)) or intercrop* or (companion adj3 (plant* or variet* or species)) or "integrated soil fertility management" or ISFM or (pest adj3 manage*)).ti,ab,kw. (173639)
17 (((grain* or crop* or agricultur* or aquacultur* or farm* or produce) adj6 (silo* or stor* or shed* or warehous*)) or ((agricultur* or farm*) adj3 (collect* or distribut*) adj3 (centre* or center* or point* or hub*)) or ((farm* or produce or food* or agricultur*) adj6 ("cold chain*" or ((refrigerat* or cold) adj3 (truck* or transport* or transit)))) or ((import? or importation or export*) adj6 (tariff* or quota* or ban* or restrict* or regulat*)) or "trade agreement*").ti,ab,kw. (7549)
18 (((food* or crop* or staple*) adj3 (fortif* or biofortif*)) or ((recycl* or compost* or biodegrad* or plastic*) adj3 (pack* or sache*)) or (post-harvest adj6 (clean* or winnow* or cann* or mill* or thresh* or hull*)) or ((food* or crop* or grain*) adj3 dry*)).ti,ab,kw. (6297)
19 ((food adj3 (loss* or wast*)) or ((food* or grocer* or soup) adj6 (donat* or pantr* or bank* or kitchen* or transfer*)) or (food* adj6 near* adj6 spoil*)).ti,ab,kw. (7160)
20 ("food environment*" or (zoning and (food* adj3 (security or access*))) or ((sugar* or SSB or "unhealthy food*") adj3 tax*) or nudg* or ((food* or eat* or feed* or meal* or diet*) adj6 (deci* or ((cultur* or social) adj3 (norm* or preferen*)))) or "ration shop*" or "farmer* market*" or "food desert*" or ((food or grocer*) adj3 retail* adj3 (tax* or subsid* or incentiv*)) or (school* adj6 (meal* or feed* or food* or lunch*))).ti,ab,kw. (14173)
21 (((food* or consumer*) adj6 (subsid* or "price control*")) or (food* adj6 (cash or "social assistance" or "social safety net" or voucher* or welfare))).ti,ab,kw. (1183)
22 ((food* adj6 ((advertis* or label* or market*) adj3 (ban* or restrict* or regulat* or polic* or law* or legislat*))) or ((supermarket or ((food* or grocer* or convenience or corner) adj (store* or market*))) adj6 (design* or redesign* or re-design* or layout* or innovat*)) or (front adj3 pack* adj3 label*)).ti,ab,kw. (980)
23 ((food* adj3 (safe* or quality) adj3 (regulat* or restrict* or polic* or law* or legislat* or inspect*)) or (food* adj3 certif*)).ti,ab,kw. (1214)
24 (cook* or ((meal* or food*) adj3 prepar*) or (wom#n adj6 (food* or eat* or feed* or meal* or diet*) adj6 (empower* or deci*)) or ((food* or eat* or feed* or breastfeed* or "breast feed*" or meal* or diet* or "F&V") adj6 (inform* or educat* or promot* or campaign* or media or initiative* or (peer adj (counsel* or support)) or (community adj3 (meet* or class* or engag* or participat*)) or "door-to-door"))).ti,ab,kw. (87360)
25 or/14-24 (450525)
26 13 and 25 (14487)

27 limit 26 to yr="2000 -Current" (**13314**)

Global Health <1910 to 2020 Week 20> (Ovid) - Searched 27th May 2020

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1 (((farm* field school* or (farm* adj3 (train* or (build adj3 capacity))) or demonstration plot* or ((agricultur* or rural) adj extension) or farm*) adj3 educat*) or (farm* adj3 (organi#ation* or group* or cooperative* or co-op* or club*)) or (("social protection" or microfinance or "micro finance" or microloan* or "micro loan*") adj4 (farm* or smallholder* or agricultur*))).ti,ab,hw. (2027)
2 ((Food adj3 (system or produc*)) or (agricultur* adj3 produc*) or aquacultur* or fisher* or livestock* or ((kitchen or home*) adj3 (farm* or garden*)) or "nutrition-sensitive" or (improv* adj3 (seed* or variet* or crop*)) or (genetic* adj modif* adj (food* or organism*)) or GMO* or ((compost* or manure* or mulch* or fertili* or pesticid* or insecticid*) adj3 (appl* or spray* or spread* or "use" or usage)) or ((drought* or pest* or insect*) adj3 (toleran* or resist*)) or (rotat* adj3 crop*) or (land adj3 manage*) or "fixed distance planting" or (plant* adj3 row?) or ((farm* or crop or agricultur*) adj6 subsid*) or (price* adj6 purchas* adj6 guarantee*) or ((agricultur* or crop* or rain* or weather or index) adj6 insurance) or (irrigat* adj6 (project* or program* or access* or improv*)) or "water meter*" or (rain* adj3 (fed or feed*)) or (trench* adj3 hill*) or hilling or contour bund* or zai or "water break" or terrac* or ((farm* or agricultur*) adj3 (mechani#e* or mechani#ation*)) or intercrop* or (companion adj3 (plant* or variet* or species)) or "integrated soil fertility management" or ISFM or (pest adj3 manage*)).ti,ab,hw. (140426)
3 (((grain* or crop* or agricultur* or aquacultur* or farm* or produce) adj6 (silo* or stor* or shed* or warehous*)) or ((agricultur* or farm*) adj3 (collect* or distribut*) adj3 (centre* or center* or point* or hub*)) or ((farm* or produce or food* or agricultur*) adj6 ("cold chain*" or ((refrigerat* or cold) adj3 (truck* or transport* or transit)))) or ((import? or importation or export*) adj6 (tariff* or quota* or ban* or restrict* or regulat*)) or "trade agreement*").ti,ab,hw. (5724)
4 (((food* or crop* or staple*) adj3 (fortif* or biofortif*)) or ((recycl* or compost* or biodegrad* or plastic*) adj3 (pack* or sache*)) or (post-harvest adj6 (clean* or winnow* or cann* or mill* or thresh* or hull*)) or ((food* or crop* or grain*) adj3 dry*)).ti,ab,hw. (6336)
5 ((food adj3 (loss* or wast*)) or ((food* or grocer* or soup) adj6 (donat* or pantr* or bank* or kitchen* or transfer*)) or (food* adj6 near* adj6 spoil*)).ti,ab,hw. (7942)
6 ("food environment*" or (zoning and (food* adj3 (security or access*))) or ((sugar* or SSB or "unhealthy food*") adj3 tax*) or nudg* or ((food* or eat* or feed* or meal* or diet*) adj6 (deci* or ((cultur* or social) adj3 (norm* or preferen*)))) or "ration shop*" or "farmer* market*" or "food desert*" or ((food or grocer*) adj3 retail* adj3 (tax* or subsid* or incentiv*)) or (school* adj6 (meal* or feed* or food* or lunch*))).ti,ab,hw. (14640)
7 (((food* or consumer*) adj6 (subsid* or "price control*")) or (food* adj6 (cash or "social assistance" or "social safety net" or voucher* or welfare))).ti,ab,hw. (2018)
8 ((food* adj6 ((advertis* or label* or market*) adj3 (ban* or restrict* or regulat* or polic* or law* or legislat*))) or ((supermarket or ((food* or grocer* or convenience or corner) adj (store* or market*))) adj6 (design* or redesign* or re-design* or layout* or innovat*)) or (front adj3 pack* adj3 label*)).ti,ab,hw. (1337)

9 ((food* adj3 (safe* or quality) adj3 (regulat* or restrict* or polic* or law* or legislat* or inspect*)) or (food* adj3 certif*)).ti,ab,hw. (2759)
10 (cook* or ((meal* or food*) adj3 prepar*) or (wom#n adj6 (food* or eat* or feed* or meal* or diet*) adj6 (empower* or deci*)) or ((food* or eat* or feed* or breastfeed* or "breast feed*" or meal* or diet* or "F&V") adj6 (inform* or educat* or promot* or campaign* or media or initiative* or (peer adj (counsel* or support)) or (community adj3 (meet* or class* or engag* or participat*)) or "door-to-door"))).ti,ab,hw. (90449)
11 agriculture/ or agricultural production/ or agricultural trade/ or irrigation/ or pest management/ or fertilizers/ or organic fertilizers/ or inorganic fertilizers/ or soil fertility/ or soil quality/ or genetically engineered organisms/ or grain/ or cereal grains/ or feed grains/ or food grains/ or crops/ or cash crops/ or companion crops/ or cover crops/ or food crops/ or grain crops/ or green manures/ or horticultural crops/ or intercrops/ or nut crops/ or root crops/ or seed crops/ or starch crops/ or sugar crops/ or crop damage/ or crop density/ or crop insurance/ or crop losses/ or crop management/ or crop quality/ or intensive cropping/ or rowcrops/ or vegetables/ or bulbous vegetables/ or fruit vegetables/ or leafy vegetables/ or root vegetables/ or stem vegetables/ or mushrooms/ or vegetable growing/ or livestock farming/ or aquaculture/ or cattle farming/ or goat keeping/ or pig farming/ or poultry farming/ or sheep farming/ or farmers' associations/ or farming systems/ or farms/ or food/ or foods/ or food products/ or food consumption/ or food cooperatives/ or food distribution programs/ or food grades/ or food groups/ or food marketing/ or food preparation/ or recipes/ or food purchasing/ or food shortages/ or food storage/ or food stores/ or foodways/ or food serving methods/ or food beliefs/ or food packaging/ or food preservation/ or food technology/ or food industry/ or food processing/ or food access/ or food security/ or food costs/ or food supply/ or food quality/ or food acceptability/ or food safety/ or food contamination/ or food supplements/ or functional foods/ or supplementary feeding/ or diet/ or dietary guidelines/ or meals/ or diet counselling/ or nutrient sources/ or breast feeding/ or infant foods/ or weaning/ or food policy/ or agricultural policy/ or agricultural planning/ or agricultural prices/ or agricultural financial policy/ or food legislation/ or nutrition/ or community nutrition/ or nutrition education/ or nutrition information/ or nutrition knowledge/ or nutrition labelling/ or nutrition planning/ or nutritional adequacy/ or nutritional disorders/ or nutritional intervention/ or nutritional support/ or nutritive value/ or malnutrition/ or maternal nutrition/ or child nutrition/ or elderly nutrition/ (588595)
12 or/1-11 (696663)
13 (afghanistan or albania or algeria or "american samoa" or angola or "antigua and barbuda" or antigua or barbuda or argentina or armenia or armenian or aruba or azerbaijan or bahrain or bangladesh or barbados or belarus or byelarus or belorussia or byelorussian or belize or "british honduras" or benin or dahomey or bhutan or bolivia or "bosnia and herzegovina" or bosnia or herzegovina or botswana or bechuanaland or brazil or brasil or bulgaria or "burkina faso" or "burkina fasso" or "upper volta" or burundi or urundi or "cabo verde" or "cape verde" or cambodia or kampuchea or "khmer republic" or cameroon or cameron or cameroun or "central african republic" or "ubangi shari" or chad or chile or china or colombia or comoros or "comoro islands" or "iles comores" or mayotte or "democratic republic of the congo" or "democratic republic congo" or congo or zaire or "costa rica" or "cote d'ivoire" or "cote d' ivoire" or "cote divoire" or "cote d ivoire" or "ivory coast" or croatia or cuba or cyprus or "czech republic" or czechoslovakia or djibouti or "french somaliland" or dominica or "dominican republic" or ecuador or egypt or "united arab republic" or "el salvador" or "equatorial guinea" or "spanish guinea" or eritrea or estonia or eswatini or swaziland or ethiopia or fiji or gabon or "gabonese republic" or gambia or "georgia

(republic)" or georgian or ghana or "gold coast" or gibraltar or greece or grenada or guam or guatemala or guinea or "guinea bissau" or guyana or "british guiana" or haiti or hispaniola or honduras or hungary or india or indonesia or timor or iran or iraq or "isle of man" or jamaica or jordan or kazakhstan or kazakh or kenya or "democratic people's republic of korea" or "republic of korea" or "north korea" or "south korea" or korea or kosovo or kyrgyzstan or kirghizia or kirgizstan or "kyrgyz republic" or kirghiz or laos or "lao pdr" or "lao people's democratic republic" or latvia or lebanon or "lebanese republic" or lesotho or basutoland or liberia or libya or "libyan arab jamahiriya" or lithuania or macau or macao or "macedonia (republic)" or macedonia or madagascar or "malagasy republic" or malawi or nyasaland or malaysia or "malay federation" or "malaya federation" or maldives or "indian ocean islands" or "indian ocean" or mali or malta or micronesia or "federated states of micronesia" or kiribati or "marshall islands" or nauru or "northern mariana islands" or palau or tuvalu or mauritania or mauritius or mexico or moldova or moldovian or mongolia or montenegro or morocco or ifni or mozambique or "portuguese east africa" or myanmar or burma or namibia or nepal or "netherlands antilles" or nicaragua or niger or nigeria or oman or muscat or pakistan or panama or "papua new guinea" or "new guinea" or paraguay or peru or philippines or philipines or phillipines or phillippines or poland or "polish people's republic" or portugal or "portuguese republic" or "puerto rico" or romania or russia or "russian federation" or ussr or "soviet union" or "union of soviet socialist republics" or rwanda or ruanda or samoa or "pacific islands" or polynesia or "samoan islands" or "navigator island" or "navigator islands" or "sao tome and principe" or "saudi arabia" or senegal or serbia or seychelles or "sierra leone" or slovakia or "slovak republic" or slovenia or melanesia or "solomon island" or "solomon islands" or "norfolk island" or "norfolk islands" or somalia or "south africa" or "south sudan" or "sri lanka" or ceylon or "saint kitts and nevis" or "st. kitts and nevis" or "saint lucia" or "st. lucia" or "saint vincent and the grenadines" or "saint vincent" or "st. vincent" or grenadines or sudan or suriname or surinam or "dutch guiana" or "netherlands guiana" or syria or "syrian arab republic" or tajikistan or tadjikistan or tadzhikistan or tadzhik or tanzania or tanganyika or thailand or siam or "timor leste" or "east timor" or togo or "togolese republic" or tonga or "trinidad and tobago" or trinidad or tobago or tunisia or turkey or "turkey (republic)" or turkmenistan or turkmen or uganda or ukraine or uruguay or uzbekistan or uzbek or vanuatu or "new hebrides" or venezuela or vietnam or "viet nam" or "middle east" or "west bank" or gaza or palestine or yemen or yugoslavia or zambia or zimbabwe or "northern rhodesia" or "global south" or "africa south of the sahara" or "sub-saharan africa" or "subsaharan africa" or "africa, central" or "central africa" or "africa, northern" or "north africa" or "northern africa" or magreb or maghrib or sahara or "africa, southern" or "southern africa" or "africa, eastern" or "east africa" or "eastern africa" or "africa, western" or "west africa" or "western africa" or "west indies" or "indian ocean islands" or caribbean or "central america" or "latin america" or "south and central america" or "south america" or "asia, central" or "central asia" or "asia, northern" or "north asia" or "northern asia" or "asia, southeastern" or "southeastern asia" or "south eastern asia" or "southeast asia" or "south east asia" or "asia, western" or "western asia" or "europe, eastern" or "east europe" or "eastern europe" or "developing country" or "developing countries" or "developing nation*" or "developing population*" or "developing world" or "less developed countr*" or "less developed nation*" or "less developed population*" or "less developed world" or "lesser developed countr*" or "lesser developed nation*" or "lesser developed population*" or "lesser developed world" or "under developed countr*" or "*under developed nation*" or "under developed population*" or "under developed world" or "underdeveloped countr*" or "underdeveloped nation*" or "underdeveloped

population*" or "underdeveloped world" or "middle income countr*" or "middle income nation*" or "middle income population*" or "low income countr*" or "low income nation*" or "low income population*" or "lower income countr*" or "lower income nation*" or "lower income population*" or "underserved countr*" or "underserved nation*" or "underserved population*" or "underserved world" or "under served countr*" or "under served nation*" or "under served population*" or "under served world" or "deprived countr*" or "deprived nation*" or "deprived population*" or "deprived world" or "poor countr*" or "poor nation*" or "poor population*" or "poor world" or "poorer countr*" or "poorer nation*" or "poorer population*" or "poorer world" or "developing econom*" or "less developed econom*" or "lesser developed econom*" or "under developed econom*" or "underdeveloped econom*" or "middle income econom*" or "low income econom*" or "lower income econom*" or "low gdp" or "low gnp" or "low gross domestic" or "low gross national" or "lower gdp" or "lower gnp" or "lower gross domestic" or "lower gross national" or lmic or lmics or "third world" or "lami countr*" or "transitional countr*" or "emerging econom*" or "emerging nation*").ti,ab,gl. (1187525)
14 exp africa/ or exp central america/ or exp latin america/ or exp south america/ or mexico/ or exp central asia/ or east asia/ or china/ or korea democratic people's republic/ or korea republic/ or mongolia/ or exp south asia/ or himalaya/ or exp south east asia/ or pacific rim/ or exp caribbean/ or exp pacific islands/ or exp developing countries/ (1094900)
15 or/13-14 (1289174)
16 (random* or experiment* or (match* adj2 (propensity or coarsened or covariate)) or "propensity score" or ("difference in difference*" or "difference-in-difference*" or "differences in difference*" or "differences-in-difference*" or "double difference*") or ("quasi-experimental" or "quasi experimental" or "quasi-experiment" or "quasi experiment") or ((estimator or counterfactual) and evaluation*) or "instrumental variable*" or (IV adj2 (estimation or approach)) or regression discontinuity or time series or segment* regression or (non adj2 participant*) or ((control or comparison) adj2 (group* or condition* or area* or intervention))).ti,ab,hw. (646728)
17 randomized controlled trials/ or program evaluation/ or time series/ or regression analysis/ (45875)
18 16 or 17 (650539)
19 ("cochrane database of systematic reviews" or "campbell systematic reviews").jn. (483)
20 systematic reviews/ or meta-analysis/ (43100)
21 (systematic review or literature review or meta-analy* or metaanaly* or meta analy*).ti. (39848)
22 19 or 20 or 21 (50461)
23 18 or 22 (681090)
24 15 and 23 (184934)
25 12 and 24 (30645)
26 limit 25 to yr="2000 -Current" (24575)

APA PsycInfo <1806 to May Week 3 2020> (Ovid) - Searched 27th May 2020

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1 (((farm* field school* or (farm* adj3 (train* or (build adj3 capacity))) or demonstration plot* or ((agricultur* or rural) adj extension) or farm*) adj3 educat*) or (farm* adj3 (organi#ation* or group* or cooperative* or co-op* or club*)) or (("social protection" or microfinance or "micro finance" or microloan* or "micro loan*") adj4 (farm* or smallholder* or agricultur*))).ti,ab,hw. (408)
2 ((Food adj3 (system or produc*)) or (agricultur* adj3 produc*) or aquacultur* or fisher* or livestock* or ((kitchen or home*) adj3 (farm* or garden*)) or "nutrition-sensitive" or (improv* adj3 (seed* or variet* or crop*)) or (genetic* adj modif* adj (food* or organism*)) or GMO* or ((compost* or manure* or mulch* or fertili* or pesticid* or insecticid*) adj3 (appl* or spray* or spread* or "use" or usage)) or ((drought* or pest* or insect*) adj3 (toleran* or resist*)) or (rotat* adj3 crop*) or (land adj3 manage*) or "fixed distance planting" or (plant* adj3 row?) or ((farm* or crop or agricultur*) adj6 subsid*) or (price* adj6 purchas* adj6 guarantee*) or ((agricultur* or crop* or rain* or weather or index) adj6 insurance) or (irrigat* adj6 (project* or program* or access* or improv*)) or "water meter*" or (rain* adj3 (fed or feed*)) or (trench* adj3 hill*) or hilling or contour bund* or zai or "water break" or terrac* or ((farm* or agricultur*) adj3 (mechani#e* or mechani#ation*)) or intercrop* or (companion adj3 (plant* or variet* or species)) or "integrated soil fertility management" or ISFM or (pest adj3 manage*)).ti,ab,hw. (11591)
3 (((grain* or crop* or agricultur* or aquacultur* or farm* or produce) adj6 (silo* or stor* or shed* or warehous*)) or ((agricultur* or farm*) adj3 (collect* or distribut*) adj3 (centre* or center* or point* or hub*)) or ((farm* or produce or food* or agricultur*) adj6 ("cold chain*" or ((refrigerat* or cold) adj3 (truck* or transport* or transit)))) or ((import? or importation or export*) adj6 (tariff* or quota* or ban* or restrict* or regulat*)) or "trade agreement*").ti,ab,hw. (687)
4 (((food* or crop* or staple*) adj3 (fortif* or biofortif*)) or ((recycl* or compost* or biodegrad* or plastic*) adj3 (pack* or sache*)) or (post-harvest adj6 (clean* or winnow* or cann* or mill* or thresh* or hull*)) or ((food* or crop* or grain*) adj3 dry*)).ti,ab,hw. (277)
5 ((food adj3 (loss* or wast*)) or ((food* or grocer* or soup) adj6 (donat* or pantr* or bank* or kitchen* or transfer*)) or (food* adj6 near* adj6 spoil*)).ti,ab,hw. (1030)
6 ("food environment*" or (zoning and (food* adj3 (security or access*))) or ((sugar* or SSB or "unhealthy food*") adj3 tax*) or nudg* or ((food* or eat* or feed* or meal* or diet*) adj6 (deci* or ((cultur* or social) adj3 (norm* or preferen*)))) or "ration shop*" or "farmer* market*" or "food desert*" or ((food or grocer*) adj3 retail* adj3 (tax* or subsid* or incentiv*)) or (school* adj6 (meal* or feed* or food* or lunch*))).ti,ab,hw. (7864)
7 (((food* or consumer*) adj6 (subsid* or "price control*")) or (food* adj6 (cash or "social assistance" or "social safety net" or voucher* or welfare))).ti,ab,hw. (308)
8 ((food* adj6 ((advertis* or label* or market*) adj3 (ban* or restrict* or regulat* or polic* or law* or legislat*))) or ((supermarket or ((food* or grocer* or convenience or corner) adj (store* or market*))) adj6 (design* or redesign* or re-design* or layout* or innovat*)) or (front adj3 pack* adj3 label*)).ti,ab,hw. (279)
9 ((food* adj3 (safe* or quality) adj3 (regulat* or restrict* or polic* or law* or legislat* or inspect*)) or (food* adj3 certif*)).ti,ab,hw. (96)
10 (cook* or ((meal* or food*) adj3 prepar*) or (wom#n adj6 (food* or eat* or feed* or meal* or diet*) adj6 (empower* or deci*)) or ((food* or eat* or feed* or breastfeed* or "breast feed*" or meal* or diet* or "F&V") adj6 (inform* or educat* or promot* or campaign* or media or initiative* or (peer adj (counsel* or support)) or (community adj3 (meet* or class* or engag* or participat*)) or "door-to-door"))).ti,ab,hw. (23250)
11 Food/ or Food Deprivation/ or Food Intake/ or Food Preferences/ or Food Preparation/ or Food Safety/ or Nutrition/ or Nutritional Deficiencies/ or Eating

Behavior/ or Eating Attitudes/ or Mealtimes/ or Diets/ or Agriculture/ or Agriculture Extension Workers/ or Agricultural Workers/ or Consumer Behavior/ (89721)
12 or/1-11 (119619)
13 (afghanistan or albania or algeria or "american samoa" or angola or "antigua and barbuda" or antigua or barbuda or argentina or armenia or armenian or aruba or azerbaijan or bahrain or bangladesh or barbados or belarus or byelarus or belorussia or byelorussian or belize or "british honduras" or benin or dahomey or bhutan or bolivia or "bosnia and herzegovina" or bosnia or herzegovina or botswana or bechuanaland or brazil or brasil or bulgaria or "burkina faso" or "burkina fasso" or "upper volta" or burundi or urundi or "cabo verde" or "cape verde" or cambodia or kampuchea or "khmer republic" or cameroon or cameron or cameroun or "central african republic" or "ubangi shari" or chad or chile or china or colombia or comoros or "comoro islands" or "iles comores" or mayotte or "democratic republic of the congo" or "democratic republic congo" or congo or zaire or "costa rica" or "cote d'ivoire" or "cote d' ivoire" or "cote divoire" or "cote d ivoire" or "ivory coast" or croatia or cuba or cyprus or "czech republic" or czechoslovakia or djibouti or "french somaliland" or dominica or "dominican republic" or ecuador or egypt or "united arab republic" or "el salvador" or "equatorial guinea" or "spanish guinea" or eritrea or estonia or eswatini or swaziland or ethiopia or fiji or gabon or "gabonese republic" or gambia or "georgia (republic)" or georgian or ghana or "gold coast" or gibraltar or greece or grenada or guam or guatemala or guinea or "guinea bissau" or guyana or "british guiana" or haiti or hispaniola or honduras or hungary or india or indonesia or timor or iran or iraq or "isle of man" or jamaica or jordan or kazakhstan or kazakh or kenya or "democratic people's republic of korea" or "republic of korea" or "north korea" or "south korea" or korea or kosovo or kyrgyzstan or kirghizia or kirgizstan or "kyrgyz republic" or kirghiz or laos or "lao pdr" or "lao people's democratic republic" or latvia or lebanon or "lebanese republic" or lesotho or basutoland or liberia or libya or "libyan arab jamahiriya" or lithuania or macau or macao or "macedonia (republic)" or macedonia or madagascar or "malagasy republic" or malawi or nyasaland or malaysia or "malay federation" or "malaya federation" or maldives or "indian ocean islands" or "indian ocean" or mali or malta or micronesia or "federated states of micronesia" or kiribati or "marshall islands" or nauru or "northern mariana islands" or palau or tuvalu or mauritania or mauritius or mexico or moldova or moldovian or mongolia or montenegro or morocco or ifni or mozambique or "portuguese east africa" or myanmar or burma or namibia or nepal or "netherlands antilles" or nicaragua or niger or nigeria or oman or muscat or pakistan or panama or "papua new guinea" or "new guinea" or paraguay or peru or philippines or philipines or phillipines or phillippines or poland or "polish people's republic" or portugal or "portuguese republic" or "puerto rico" or romania or russia or "russian federation" or ussr or "soviet union" or "union of soviet socialist republics" or rwanda or ruanda or samoa or "pacific islands" or polynesia or "samoan islands" or "navigator island" or "navigator islands" or "sao tome and principe" or "saudi arabia" or senegal or serbia or seychelles or "sierra leone" or slovakia or "slovak republic" or slovenia or melanesia or "solomon island" or "solomon islands" or "norfolk island" or "norfolk islands" or somalia or "south africa" or "south sudan" or "sri lanka" or ceylon or "saint kitts and nevis" or "st. kitts and nevis" or "saint lucia" or "st. lucia" or "saint vincent and the grenadines" or "saint vincent" or "st. vincent" or grenadines or sudan or suriname or surinam or "dutch guiana" or "netherlands guiana" or syria or "syrian arab republic" or tajikistan or tadjikistan or tadzhikistan or tadzhik or tanzania or tanganyika or thailand or siam or "timor leste" or "east timor" or togo or "togolese republic" or tonga or "trinidad and tobago" or trinidad or tobago or tunisia or turkey or "turkey (republic)" or turkmenistan or turkmen or uganda or ukraine or uruguay or uzbekistan or uzbek or

vanuatu or "new hebrides" or venezuela or vietnam or "viet nam" or "middle east" or "west bank" or gaza or palestine or yemen or yugoslavia or zambia or zimbabwe or "northern rhodesia" or "global south" or "africa south of the sahara" or "sub-saharan africa" or "subsaharan africa" or "africa, central" or "central africa" or "africa, northern" or "north africa" or "northern africa" or magreb or maghrib or sahara or "africa, southern" or "southern africa" or "africa, eastern" or "east africa" or "eastern africa" or "africa, western" or "west africa" or "western africa" or "west indies" or "indian ocean islands" or caribbean or "central america" or "latin america" or "south and central america" or "south america" or "asia, central" or "central asia" or "asia, northern" or "north asia" or "northern asia" or "asia, southeastern" or "southeastern asia" or "south eastern asia" or "southeast asia" or "south east asia" or "asia, western" or "western asia" or "europe, eastern" or "east europe" or "eastern europe" or "developing country" or "developing countries" or "developing nation*" or "developing population*" or "developing world" or "less developed countr*" or "less developed nation*" or "less developed population*" or "less developed world" or "lesser developed countr*" or "lesser developed nation*" or "lesser developed population*" or "lesser developed world" or "under developed countr*" or "*under developed nation*" or "under developed population*" or "under developed world" or "underdeveloped countr*" or "underdeveloped nation*" or "underdeveloped population*" or "underdeveloped world" or "middle income countr*" or "middle income nation*" or "middle income population*" or "low income countr*" or "low income nation*" or "low income population*" or "lower income countr*" or "lower income nation*" or "lower income population*" or "underserved countr*" or "underserved nation*" or "underserved population*" or "underserved world" or "under served countr*" or "under served nation*" or "under served population*" or "under served world" or "deprived countr*" or "deprived nation*" or "deprived population*" or "deprived world" or "poor countr*" or "poor nation*" or "poor population*" or "poor world" or "poorer countr*" or "poorer nation*" or "poorer population*" or "poorer world" or "developing econom*" or "less developed econom*" or "lesser developed econom*" or "under developed econom*" or "underdeveloped econom*" or "middle income econom*" or "low income econom*" or "lower income econom*" or "low gdp" or "low gnp" or "low gross domestic" or "low gross national" or "lower gdp" or "lower gnp" or "lower gross domestic" or "lower gross national" or lmic or lmics or "third world" or "lami countr*" or "transitional countr*" or "emerging econom*" or "emerging nation*").ti,ab,lo. (344400)

14 Emerging Economies/ or Developing Countries/ or South Asian Cultural Groups/ or exp Southeast Asian Cultural Groups/ or African Cultural Groups/ or Chinese Cultural Groups/ (20313)

15 or/13-14 (350911)

16 Literature Review/ or Systematic Review/ or Meta Analysis/ (27384)

17 (systematic review or literature review or meta-analy* or metaanaly* or meta analy*).ti. (40131)

18 or/16-17 (63489)

19 Experimental Design/ or Clinical Trials/ or Between Groups Design/ or Randomized Controlled Trials/ or Experimental Methods/ or Quasi Experimental Methods/ (32293)

20 (random* or experiment* or (match* adj2 (propensity or coarsened or covariate)) or "propensity score" or ("difference in difference*" or "difference-in-difference*" or "differences in difference*" or "differences-in-difference*" or "double difference*") or ("quasi-experimental" or "quasi experimental" or "quasi-experiment" or "quasi experiment") or ((estimator or counterfactual) and evaluation*) or "instrumental variable*" or (IV adj2 (estimation or approach)) or regression

discontinuity or time series or segment* regression or (non adj2 participant*) or ((control or comparison) adj2 (group* or condition* or area* or intervention))).ti,ab,hw. (739017)
21 or/19-20 (743044)
22 18 or 21 (789480)
23 15 and 22 (49234)
24 12 and 23 (2067)
25 limit 24 to yr="2000 -Current" (1943)

Econlit <1886 to May 07, 2020> (Ovid) - Searched 27th May 2020

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1 (d130 or d180 or f140 or h430 or i380 or o130 or o180 or o220 or q1*).cc. (59675)
2 (((farm* field school* or (farm* adj3 (train* or (build adj3 capacity))) or demonstration plot* or ((agricultur* or rural) adj extension) or farm*) adj3 educat*) or (farm* adj3 (organi#ation* or group* or cooperative* or co-op* or club*)) or (("social protection" or microfinance or "micro finance" or microloan* or "micro loan*") adj4 (farm* or smallholder* or agricultur*))).ti,ab,hw. (1551)
3 ((food adj3 (system or produc*)) or (agricultur* adj3 produc*) or aquacultur* or fisher* or livestock* or ((kitchen or home*) adj3 (farm* or garden*)) or "nutrition-sensitive" or (improv* adj3 (seed* or variet* or crop*)) or (genetic* adj modif* adj (food* or organism*)) or GMO* or ((compost* or manure* or mulch* or fertili* or pesticid* or insecticid*) adj3 (appl* or spray* or spread* or "use" or usage)) or ((drought* or pest* or insect*) adj3 (toleran* or resist*)) or (rotat* adj3 crop*) or (land adj3 manage*) or "fixed distance planting" or (plant* adj3 row?) or ((farm* or crop or agricultur*) adj6 subsid*) or (price* adj6 purchas* adj6 guarantee*) or ((agricultur* or crop* or rain* or weather or index) adj6 insurance) or (irrigat* adj6 (project* or program* or access* or improv*)) or "water meter*" or (rain* adj3 (fed or feed*)) or (trench* adj3 hill*) or hilling or contour bund* or zai or "water break" or terrac* or ((farm* or agricultur*) adj3 (mechani#e* or mechani#ation*)) or intercrop* or (companion adj3 (plant* or variet* or species)) or "integrated soil fertility management" or ISFM or (pest adj3 manage*)).ti,ab,hw. (27738)
4 (((grain* or crop* or agricultur* or aquacultur* or farm* or produce) adj6 (silo* or stor* or shed* or warehous*)) or ((agricultur* or farm*) adj3 (collect* or distribut*) adj3 (centre* or center* or point* or hub*)) or ((farm* or produce or food* or agricultur*) adj6 ("cold chain*" or ((refrigerat* or cold) adj3 (truck* or transport* or transit)))) or ((import? or importation or export*) adj6 (tariff* or quota* or ban* or restrict* or regulat*)) or "trade agreement*").ti,ab,hw. (9196)
5 (((food* or crop* or staple*) adj3 (fortif* or biofortif*)) or ((recycl* or compost* or biodegrad* or plastic*) adj3 (pack* or sache*)) or (post-harvest adj6 (clean* or winnow* or cann* or mill* or thresh* or hull*)) or ((food* or crop* or grain*) adj3 dry*)).ti,ab,hw. (157)
6 ((food adj3 (loss* or wast*)) or ((food* or grocer* or soup) adj6 (donat* or pantr* or bank* or kitchen* or transfer*)) or (food* adj6 near* adj6 spoil*)).ti,ab,hw. (526)
7 ("food environment*" or (zoning and (food* adj3 (security or access*))) or ((sugar* or SSB or "unhealthy food*") adj3 tax*) or nudg* or ((food* or eat* or feed* or meal* or diet*) adj6 (deci* or ((cultur* or social) adj3 (norm* or preferen*)))) or "ration shop*" or "farmer* market*" or "food desert*" or ((food or grocer*) adj3 retail*

adj3 (tax* or subsid* or incentiv*)) or (school* adj6 (meal* or feed* or food* or lunch*))).ti,ab,hw. (1803)
8 (((food* or consumer*) adj6 (subsid* or "price control*")) or (food* adj6 (cash or "social assistance" or "social safety net" or voucher* or welfare))).ti,ab,hw. (1669)
9 ((food* adj6 ((advertis* or label* or market*) adj3 (ban* or restrict* or regulat* or polic* or law* or legislat*))) or ((supermarket or ((food* or grocer* or convenience or corner) adj (store* or market*))) adj6 (design* or redesign* or re-design* or layout* or innovat*)) or (front adj3 pack* adj3 label*)).ti,ab,hw. (258)
10 ((food* adj3 (safe* or quality) adj3 (regulat* or restrict* or polic* or law* or legislat* or inspect*)) or (food* adj3 certif*)).ti,ab,hw. (328)
11 (cook* or ((meal* or food*) adj3 prepar*) or (wom#n adj6 (food* or eat* or feed* or meal* or diet*) adj6 (empower* or deci*)) or ((food* or eat* or feed* or breastfeed* or "breast feed*" or meal* or diet* or "F&V") adj6 (inform* or educat* or promot* or campaign* or media or initiative* or (peer adj (counsel* or support)) or (community adj3 (meet* or class* or engag* or participat*)) or "door-to-door"))).ti,ab,hw. (3078)
12 or/1-11 (87141)
13 (afghanistan or albania or algeria or "american samoa" or angola or "antigua and barbuda" or antigua or barbuda or argentina or armenia or armenian or aruba or azerbaijan or bahrain or bangladesh or barbados or belarus or byelarus or belorussia or byelorussian or belize or "british honduras" or benin or dahomey or bhutan or bolivia or "bosnia and herzegovina" or bosnia or herzegovina or botswana or bechuanaland or brazil or brasil or bulgaria or "burkina faso" or "burkina fasso" or "upper volta" or burundi or urundi or "cabo verde" or "cape verde" or cambodia or kampuchea or "khmer republic" or cameroon or cameron or cameroun or "central african republic" or "ubangi shari" or chad or chile or china or colombia or comoros or "comoro islands" or "iles comores" or mayotte or "democratic republic of the congo" or "democratic republic congo" or congo or zaire or "costa rica" or "cote d'ivoire" or "cote d' ivoire" or "cote divoire" or "cote d ivoire" or "ivory coast" or croatia or cuba or cyprus or "czech republic" or czechoslovakia or djibouti or "french somaliland" or dominica or "dominican republic" or ecuador or egypt or "united arab republic" or "el salvador" or "equatorial guinea" or "spanish guinea" or eritrea or estonia or eswatini or swaziland or ethiopia or fiji or gabon or "gabonese republic" or gambia or "georgia (republic)" or georgian or ghana or "gold coast" or gibraltar or greece or grenada or guam or guatemala or guinea or "guinea bissau" or guyana or "british guiana" or haiti or hispaniola or honduras or hungary or india or indonesia or timor or iran or iraq or "isle of man" or jamaica or jordan or kazakhstan or kazakh or kenya or "democratic people's republic of korea" or "republic of korea" or "north korea" or "south korea" or korea or kosovo or kyrgyzstan or kirghizia or kirgizstan or "kyrgyz republic" or kirghiz or laos or "lao pdr" or "lao people's democratic republic" or latvia or lebanon or "lebanese republic" or lesotho or basutoland or liberia or libya or "libyan arab jamahiriya" or lithuania or macau or macao or "macedonia (republic)" or macedonia or madagascar or "malagasy republic" or malawi or nyasaland or malaysia or "malay federation" or "malaya federation" or maldives or "indian ocean islands" or "indian ocean" or mali or malta or micronesia or "federated states of micronesia" or kiribati or "marshall islands" or nauru or "northern mariana islands" or palau or tuvalu or mauritania or mauritius or mexico or moldova or moldovian or mongolia or montenegro or morocco or ifni or mozambique or "portuguese east africa" or myanmar or burma or namibia or nepal or "netherlands antilles" or nicaragua or niger or nigeria or oman or muscat or pakistan or panama or "papua new guinea" or "new guinea" or paraguay or peru or philippines or philipines or phillipines or phillippines or poland or "polish people's republic" or portugal or "portuguese republic" or "puerto rico" or romania or russia or "russian federation" or ussr or "soviet union" or "union of

soviet socialist republics" or rwanda or ruanda or samoa or "pacific islands" or polynesia or "samoan islands" or "navigator island" or "navigator islands" or "sao tome and principe" or "saudi arabia" or senegal or serbia or seychelles or "sierra leone" or slovakia or "slovak republic" or slovenia or melanesia or "solomon island" or "solomon islands" or "norfolk island" or "norfolk islands" or somalia or "south africa" or "south sudan" or "sri lanka" or ceylon or "saint kitts and nevis" or "st. kitts and nevis" or "saint lucia" or "st. lucia" or "saint vincent and the grenadines" or "saint vincent" or "st. vincent" or grenadines or sudan or suriname or surinam or "dutch guiana" or "netherlands guiana" or syria or "syrian arab republic" or tajikistan or tadjikistan or tadzhikistan or tadzhik or tanzania or tanganyika or thailand or siam or "timor leste" or "east timor" or togo or "togolese republic" or tonga or "trinidad and tobago" or trinidad or tobago or tunisia or turkey or "turkey (republic)" or turkmenistan or turkmen or uganda or ukraine or uruguay or uzbekistan or uzbek or vanuatu or "new hebrides" or venezuela or vietnam or "viet nam" or "middle east" or "west bank" or gaza or palestine or yemen or yugoslavia or zambia or zimbabwe or "northern rhodesia" or "global south" or "africa south of the sahara" or "sub-saharan africa" or "subsaharan africa" or "africa, central" or "central africa" or "africa, northern" or "north africa" or "northern africa" or magreb or maghrib or sahara or "africa, southern" or "southern africa" or "africa, eastern" or "east africa" or "eastern africa" or "africa, western" or "west africa" or "western africa" or "west indies" or "indian ocean islands" or caribbean or "central america" or "latin america" or "south and central america" or "south america" or "asia, central" or "central asia" or "asia, northern" or "north asia" or "northern asia" or "asia, southeastern" or "southeastern asia" or "south eastern asia" or "southeast asia" or "south east asia" or "asia, western" or "western asia" or "europe, eastern" or "east europe" or "eastern europe" or "developing country" or "developing countries" or "developing nation*" or "developing population*" or "developing world" or "less developed countr*" or "less developed nation*" or "less developed population*" or "less developed world" or "lesser developed countr*" or "lesser developed nation*" or "lesser developed population*" or "lesser developed world" or "under developed countr*" or "*under developed nation*" or "under developed population*" or "under developed world" or "underdeveloped countr*" or "underdeveloped nation*" or "underdeveloped population*" or "underdeveloped world" or "middle income countr*" or "middle income nation*" or "middle income population*" or "low income countr*" or "low income nation*" or "low income population*" or "lower income countr*" or "lower income nation*" or "lower income population*" or "underserved countr*" or "underserved nation*" or "underserved population*" or "underserved world" or "under served countr*" or "under served nation*" or "under served population*" or "under served world" or "deprived countr*" or "deprived nation*" or "deprived population*" or "deprived world" or "poor countr*" or "poor nation*" or "poor population*" or "poor world" or "poorer countr*" or "poorer nation*" or "poorer population*" or "poorer world" or "developing econom*" or "less developed econom*" or "lesser developed econom*" or "under developed econom*" or "underdeveloped econom*" or "middle income econom*" or "low income econom*" or "lower income econom*" or "low gdp" or "low gnp" or "low gross domestic" or "low gross national" or "lower gdp" or "lower gnp" or "lower gross domestic" or "lower gross national" or lmic or lmics or "third world" or "lami countr*" or "transitional countr*" or "emerging econom*" or "emerging nation*").ti,ab,hw. (275640)

14 (systematic review or literature review or meta-analy* or metaanaly* or meta analy*).ti. (1792)

15 (random* or experiment* or (match* adj2 (propensity or coarsened or covariate)) or "propensity score" or ("difference in difference*" or "difference-in-

difference*" or "differences in difference*" or "differences-in-difference*" or "double difference*") or ("quasi-experimental" or "quasi experimental" or "quasi-experiment" or "quasi experiment") or ((estimator or counterfactual) and evaluation*) or "instrumental variable*" or (IV adj2 (estimation or approach)) or regression discontinuity or time series or segment* regression or (non adj2 participant*) or ((control or comparison) adj2 (group* or condition* or area* or intervention))).ti,ab,hw. (115198)
16 14 or 15 (116813)
17 12 and 13 and 16 (2572)
18 limit 17 to yr="2000 -Current" (2465)

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JEL Codes:
D130 Household Production and Intrahousehold Allocation
D180 Consumer Protection
F140 Empirical Studies of Trade
H430 Project Evaluation; Social Discount Rate
I380 Welfare, Well-Being, and Poverty: Government Programs; Provision and Effects of Welfare Programs
O130 Economic Development: Agriculture; Natural Resources; Energy; Environment; Other Primary Products
O180 Economic Development: Urban, Rural, Regional, and Transportation Analysis; Housing; Infrastructure
O220 Project Analysis
Q1 Agriculture
- Q10 General
- Q11 Aggregate Supply and Demand Analysis; Prices
- Q12 Micro Analysis of Farm Firms, Farm Households, and Farm Input Markets
- Q13 Agricultural Markets and Marketing; Cooperatives; Agribusiness
- Q14 Agricultural Finance
- Q15 Land Ownership and Tenure; Land Reform; Land Use; Irrigation; Agriculture and Environment
- Q16 R&D; Agricultural Technology; Biofuels; Agricultural Extension Services
- Q17 Agriculture in International Trade
- Q18 Agricultural Policy; Food Policy
- Q19 Other

3ie Development Evidence Portal – Searched 6th June 2020

Title:((cook* OR ((meal* OR food*) AND prepar*) OR (wom*n AND (food* OR eat* OR feed* OR meal* OR diet*) AND (empower* OR deci*)) OR ((food* OR eat* OR feed* OR breastfeed* OR "breast feed*" OR meal* OR diet* OR "F&V") AND (inform* OR educat* OR promot* OR campaign* OR media OR initiative* OR (peer AND (counsel* OR support)) OR (community AND (meet* OR class* OR engag* OR participat*)) OR "door-to-door")))) OR Abstract:((cook* OR ((meal* OR food*) AND prepar*) OR (wom*n AND (food* OR eat* OR feed* OR meal* OR diet*) AND (empower* OR deci*)) OR ((food* OR eat* OR feed* OR breastfeed* OR "breast feed*" OR meal* OR diet* OR "F&V") AND (inform* OR educat* OR promot* OR campaign* OR media OR initiative* OR (peer AND (counsel* OR support)) OR (community AND (meet* OR class* OR engag* OR participat*)) OR "door-to-door")))) — **340 hits**

Title:(((Food AND (system OR produc*)) OR (agricultur* AND produc*) OR aquacultur* OR fisher* OR livestock* OR ((kitchen OR home*) AND (farm* OR garden*)) OR "nutrition-sensitive" OR (improv* AND (seed* OR variet* OR crop*)) OR (genetic* AND modif* AND (food* OR organism*)) OR GMO* OR ((compost* OR manure* OR mulch* OR fertili* OR pesticid* OR insecticid*) AND (appl* OR spray* OR spread* OR use OR usage)) OR ((drought* OR pest* OR insect*) AND (toleran* OR resist*)) OR (rotat* AND crop*) OR (land AND manage*) OR "fixed distance planting" OR (plant* AND (row OR rows*)) OR ((farm* OR crop OR agricultur*) AND subsid*) OR (price* AND purchas* AND guarantee*) OR ((agricultur* OR crop* OR rain* OR weather OR index) AND insurance) OR (irrigat* AND (project* OR program* OR access* OR improv*)) OR "water meter*" OR (rain* AND (fed OR feed*)) OR (trench* AND hill*) OR hilling OR "contour bund*" OR zai OR "water break" OR terrac* OR ((farm* OR agricultur*) AND (mechani*e* OR mechani*ation*)) OR intercrop* OR (companion AND (plant* OR variet* OR species)) OR "integrated soil fertility management" OR ISFM OR (pest AND manag*))) OR Abstract:(((Food AND (system OR produc*)) OR (agricultur* AND produc*) OR aquacultur* OR fisher* OR livestock* OR ((kitchen OR home*) AND (farm* OR garden*)) OR "nutrition-sensitive" OR (improv* AND (seed* OR variet* OR crop*)) OR (genetic* AND modif* AND (food* OR organism*)) OR GMO* OR ((compost* OR manure* OR mulch* OR fertili* OR pesticid* OR insecticid*) AND (appl* OR spray* OR spread* OR use OR usage)) OR ((drought* OR pest* OR insect*) AND (toleran* OR resist*)) OR (rotat* AND crop*) OR (land AND manage*) OR "fixed distance planting" OR (plant* AND (row OR rows*)) OR ((farm* OR crop OR agricultur*) AND subsid*) OR (price* AND purchas* AND guarantee*) OR ((agricultur* OR crop* OR rain* OR weather OR index) AND insurance) OR (irrigat* AND (project* OR program* OR access* OR improv*)) OR "water meter*" OR (rain* AND (fed OR feed*)) OR (trench* AND hill*) OR hilling OR "contour bund*" OR zai OR "water break" OR terrac* OR ((farm* OR agricultur*) AND (mechani*e* OR mechani*ation*)) OR intercrop* OR (companion AND (plant* OR variet* OR species)) OR "integrated soil fertility management" OR ISFM OR (pest AND manag*))) — **430 hits**

Title:((((grain* OR crop* OR agricultur* OR farm* OR produce) AND (silo* OR stor* OR shed* OR warehous*)) OR ((agricultur* OR farm*) AND (collection OR distribution) AND (centre* OR center* OR point* OR hub*)) OR ((farm* OR produce OR food* OR agricultur*) AND ("cold chain*" OR ((refrigerat* OR cold) AND (truck* OR transport* OR transit)))) OR ((import OR imports OR importation OR export*) AND (tariff* OR quota* OR ban* OR restrict* OR regulat*)) OR "trade agreement*")) OR Abstract:((((grain* OR crop* OR agricultur* OR farm* OR produce) AND (silo* OR stor* OR shed* OR warehous*)) OR ((agricultur* OR farm*) AND (collection OR distribution) AND (centre* OR center* OR point* OR hub*)) OR ((farm* OR produce OR food* OR agricultur*) AND ("cold chain*" OR ((refrigerat* OR cold) AND (truck* OR transport* OR transit)))) OR ((import OR imports OR importation OR export*) AND (tariff* OR quota* OR ban* OR restrict* OR regulat*)) OR "trade agreement*")) — **33 hits**

Title:((((food* OR crop* OR staple*) AND (fortif* OR biofortif*)) OR ((recycl* OR compost* OR biodegrad* OR plastic*) AND (pack* OR sache*)) OR (post-harvest AND (clean* OR winnow* OR cann* OR mill* OR thresh* OR hull*)) OR ((food* OR crop* OR grain*) AND dry*))) OR Abstract:((((food* OR crop* OR staple*) AND (fortif* OR biofortif*)) OR ((recycl* OR compost* OR biodegrad* OR plastic*) AND (pack* OR sache*)) OR (post-harvest AND (clean* OR winnow* OR cann* OR mill* OR thresh* OR hull*)) OR ((food* OR crop* OR grain*) AND dry*))) — **57 hits**

Title:(((food AND (loss* OR wast*)) OR ((food* OR grocer* OR soup) AND (donat* OR pantr* OR bank* OR kitchen* OR transfer*)) OR (food* AND near* AND spoil*))) OR Abstract:(((food AND (loss* OR wast*)) OR ((food* OR grocer* OR soup) AND (donat* OR pantr* OR bank* OR kitchen* OR transfer*)) OR (food* AND near* AND spoil*))) — **101 hits**

Title:(("food environment*" OR (zoning AND (food* AND (security OR access*))) OR ((sugar* OR SSB OR "unhealthy food*") AND tax*) OR nudg* OR ((food* OR eat* OR feed* OR meal* OR diet*) AND (deci* OR ((cultur* OR social) AND (norm* OR preferen*)))) OR "ration shop*" OR "farmer* market*" OR "food desert*" OR ((food OR grocer*) AND retail* AND (tax* OR subsid* OR incentiv*)) OR (school* AND (meal* OR feed* OR food* OR lunch*)))) OR Abstract:(("food environment*" OR (zoning AND (food* AND (security OR access*))) OR ((sugar* OR SSB OR "unhealthy food*") AND tax*) OR nudg* OR ((food* OR eat* OR feed* OR meal* OR diet*) AND (deci* OR ((cultur* OR social) AND (norm* OR preferen*)))) OR "ration shop*" OR "farmer* market*" OR "food desert*" OR ((food OR grocer*) AND retail* AND (tax* OR subsid* OR incentiv*)) OR (school* AND (meal* OR feed* OR food* OR lunch*)))) — **123 hits**

Title:((((food* OR consumer*) AND (subsid* OR "price control*")) OR (food* AND (cash OR "social assistance" OR "social safety net" OR voucher* OR welfare)))) OR Abstract:((((food* OR consumer*) AND (subsid* OR "price control*")) OR (food* AND (cash OR "social assistance" OR "social safety net" OR voucher* OR welfare)))) — **111 hits**

Title:(((food* AND ((advertis* OR label* OR market*) AND (ban* OR restrict* OR regulat* OR polic* OR law* OR legislat*))) OR ((supermarket OR ((food* OR grocer* OR convenience OR corner) AND (store* OR market*))) AND (design* OR redesign* OR re-design* OR layout* OR innovat*)) OR (front AND pack* AND label*))) OR Abstract:(((food* AND ((advertis* OR label* OR market*) AND (ban* OR restrict* OR regulat* OR polic* OR law* OR legislat*))) OR ((supermarket OR ((food* OR grocer* OR convenience OR corner) AND (store* OR market*))) AND (design* OR redesign* OR re-design* OR layout* OR innovat*)) OR (front AND pack* AND label*))) — **27 hits**

Title:((((food* AND (safe* OR quality)) AND (regulat* OR restrict* OR polic* OR law* OR legislat* OR inspect*)) OR (food* AND certif*))) OR Abstract:((((food* AND (safe* OR quality)) AND (regulat* OR restrict* OR polic* OR law* OR legislat* OR inspect*)) OR (food* AND certif*))) — **14 hits**

Title:((cook* OR ((meal* OR food*) AND prepar*) OR (wom*n AND (food* OR eat* OR feed* OR meal* OR diet*) AND (empower* OR deci*)) OR ((food* OR eat* OR feed* OR breastfeed* OR "breast feed*" OR meal* OR diet* OR "F&V") AND (inform* OR educat* OR promot* OR campaign* OR media OR initiative* OR (peer AND (counsel* OR support)) OR (community AND (meet* OR class* OR engag* OR participat*)) OR "door-to-door")))) OR Abstract:((cook* OR ((meal* OR food*) AND prepar*) OR (wom*n AND (food* OR eat* OR feed* OR meal* OR diet*) AND (empower* OR deci*)) OR ((food* OR eat* OR feed* OR breastfeed* OR "breast feed*" OR meal* OR diet* OR "F&V") AND (inform* OR educat* OR promot* OR campaign* OR media OR initiative* OR (peer AND (counsel* OR support)) OR

(community AND (meet* OR class* OR engag* OR participat*)) OR "door-to-door")))
) — **340 hits**

Total raw results: 1397
Total after de-duplication: 875

C2. Search strategy for grey literature sources

Database	Search strategy and terms	Documents identified/screened before import	Documents imported for full screening
AgEcon search	Advanced search “evaluation” OR “systematic review”	496	37
Innovations for Poverty Action (IPA)	Added topic filters: food security, nutrition and maternal & child health.	58	15
J-PAL	Nutrition agriculture food security	311	72
Global Development Network	Food OR agriculture	70	1
World Bank Development Impact Evaluation (DIME) and Impact evaluation Policy Papers	(food OR agriculture) AND (“impact evaluation” OR “systematic review”)	256	31
Inter-American Development Bank	1. Topic filter: nutrition. Publication filter: discussion papers, working papers and co-publications.	70	5

	2. Topic filter: agriculture and food security. Publication type filter: discussion paper, annual reports, magazines, journals and newspapers and working papers.		
Center for Global Development	1. Agriculture 2. Nutrition 3. Food	49	3
Center for Effective Global Action (CEGA)	Sector filter: agriculture	64	7
DFID Research for Development (R4D)	filter 12 document types: case study, conference paper, discussion paper, journal article, research paper, technical report, protocol, working paper, thematic summary, evaluation report, journal issue, systematic review. Theme filters: food and nutrition	885	9
USAID	Search nutrition, Sector filter: Agriculture and food security, document type filter: evaluation	826	27
IFPRI	1. "impact evaluation" 2. "Systematic review"	272	19
CGIAR	Food	329	32
Food and Agriculture Organization of the United Nations (FAO)	("Impact evaluation" OR "systematic review") AND food	1124	60
HLPE	Checked references of reports		64
World Food Programme (WFP)	Publication type filter: evaluations	189	40
Action Against Hunger	1. Topic filter: Impact & innovation 2. Topic filter: Nutrition & care practices 3. Topic filter: food security & livelihoods	55	0
UNICEF	1. Food 2. Agriculture 3. Evaluation	83	7
United Nations Evaluation Group	1. Food 2. Agriculture	210	64
Asian Development Bank	Filter type: evaluation document and search term: nutrition OR food OR agriculture	335	5
World Agroforestry Centre (ICRAF)	1. food evaluation site:worldagroforestry.org/publication (searched in google)	398	46
International Livestock Research Institute (ILRI)	1. Evaluation 2. "Systematic review"	190	27
Nutrition International	Select a region: select all and then untick Japan and US. Select a type of publication: evidence briefs, reports and best practice,	87	18

	research documents		
Google scholar	(food OR agriculture) AND (evaluation OR "systematic review"). Uploaded the first 1000 search results to EPPI and screened them there.	1000	
ENN-Network	1. Evaluation 2. "systematic review"	457	11
IMMANA grantee database	Hand searched	15	1
Grey Literature Report	1. Full subject filter: developing countries. Search nutrition 2. Full subject filter: developing countries. Search agriculture 3. Full subject filter: developing countries. Search: food system 4. Full subject filter: developing countries. Search: food security	66	0
Social Science Research Network (SSRN)	1. searched food system and then within the search searched nutrition 2. searched food system and then within the search searched agriculture	485	17
Eldis	Food AND evaluation	816	97
Registry of International Development Impact Evaluation (RIDIE)	1. Food 2. Filter study category- Agriculture and rural development	62	44
SPRING	1. Publication type filter: Journal articles 2. Publication type filter: Reports	112	7
FANTA	Publication type(s) filter: assessments, research results, journal articles or periodicals, reports	214	17

Appendix D: Example boundary decisions taken during screening

This section provides an illustration of decisions made during the screening process with respect to boundary cases, i.e. cases where the eligibility criteria provided in the protocol did not always enable the application of a clear screening decision. The core team meet to discuss these issues on a case-by-case basis to produce and disseminate guidance to the screening team:

- If the outcome were health problems that are not the direct cause of poor nutrition the studies were excluded. Health problems that were included were the following:
    - Iron – anaemia, haemoglobin, haematocrit
    - Iodine – goitre
    - Vitamin A – night blindness, xerophthalmia, retinol or carotenoids; not retinol binding protein)
    - Vitamin D – rickets
    - Vitamin C – scurvy
    - Folate – spina bifida or neural tube defects
    - Calcium – osteoporosis or osteopenia
- We excluded clinical studies unless there was a clear link to the food system as we have defined it. As such, we included studies that evaluate interventions that seek to introduce nutrition-related changes to prevent worsening health conditions for a population in general, and we excluded studies that seek to treat, or prevent the harmful consequences of, specific medical conditions.
- Agricultural studies that did not mention an attempt to modify farmer practices in some way, were excluded. Studies were also excluded if they were ambiguous on whether a target population was engaged, assuming that if this engagement was a key part of the study it would have been mentioned.
- Conditional cash transfers were included providing they were related to the food system in some way. For example, if the condition related to food or if parts of the cash transfer was meant to be spent on food. Unconditional cash transfers were all excluded.
- Cash crops, interventions concerning crops that are not produced for food for humans or animals, were considered outside the food system and therefore excluded.
- Interventions targeting drivers of the food system without an explicit food system focus were excluded as they do not actually function within the food system. For example, interventions to support conflict resolution in areas experiencing active conflict were not included despite the fact that these interventions would likely support the functioning of the food system.
- Interventions that seek to enhance the performance of a specific niche populations, such as athletes, the military, astronauts or actors/models were excluded. Interventions that provide nutrition intravenously (i.e. parenteral nutrition) were excluded on LMIC.
- We excluded studies where specifically migrants form the population of interest – for example, migrants from high-income countries based in LMICs, or vice versa.

Appendix E: Data extraction codebook

We extracted data from included studies in line with Table C1 below.

Table C1: Summary of descriptive codebook

Code	Sub-code	Description
study_id		EPPI ID
coder_name		Coder's name
line_id		Please leave this cell blank
database_source		Select a database source from the list. This information can be found at the bottom of the page for each record on EPPI, just above the space where PDFs are attached. E.g., if you see "Source: Academic Search Complete, Agris, Repec, WB e-lib, Oxfam Policy (Ebsco Discovery)...", code this as "Ebsco Discovery".
title_name		Use only the English version of the publication's main title. If paper is not written in English and has the title translated, use the translated version of the title. If the publication does not provide an English version, include the title in its original language. Please enter title in sentence case. Ensure there are no line breaks in the cell.
foreign_title		When publication is not written in English, code the original title using original accents and special characters. Example: Intervenção educacional em equipes do Programa de Saúde da Família para promoção da amamentação If not applicable, code "not applicable"
language		Select **full text** language that applies: English, French, Spanish or Portuguese

Code	Sub-code	Description
author information	author_name	Enter all authors one by one. Each cell should contain only one author. The format is <last name>, <first name>, <second name or initial (if any)> Examples: Sabet, Shayda Sabet, Shayda M. Sabet, Shaya Mae Always place a dot after a first or middle initial. When a publication only provides first initials and last name, perform a cursory online search using the name and paper title to find the authors' full name. If search is unsuccessful, author/s will be coded following the format: <last name>, <first initial>.<second initial (if any)>. Examples: Miranda, J. Miranda, J.M.
	author_ranking	Enter a number indicating where the author appears in the list of authors (i.e., first author will be "1", second author will be "2", etc.)
	author_affiliation_institution	Code the institution with which the author is affiliated according to what is noted in the article. Code the full name of the institution and its abbreviation (if relevant) in brackets. For example: "International Initiative for Impact Evaluation (3ie)" If no institutional information is included in the paper, code as "unidentified". Do not spend time searching for this information.
	author_affiliation_institution_department	Code the faculty, department, lab, etc. within the affiliated institution. For example, "Faculty of Economics" If it cannot be found in the paper, leave blank.
	author_affiliation_country	If specified or obvious, select country in which author's institution is located. If the institution's headquarters are in one country but the organization has affiliates or country offices all over the world (such as the World Bank or JPAL), and the affiliation mentioned does not specify a country office, then select the HQ country. For example, if the affiliated mentioned is simply "JPAL" select United States, if it says "JPAL Africa", then select South Africa. You may need to do some searching to identify this. If the author has more than one affiliation, repeat the author's name across multiple rows to account for all affiliations.
publication information	journal_name	Choose the name of journal from the dropdown list. If it cannot be found, select other.

Code	Sub-code	Description
	other_journal_name	If you chose other above, follow the below instructions, and otherwise enter not applicable Use full journal name. Do not abbreviate name. Do not include "The" at the beginning. Example: Journal of Development Effectiveness If publication is a working paper, write the series name. If publication is a report, write the publishing institution Example: World Bank Policy Research Working Paper For conference papers, the journal name can be listed as “Proceedings of the <conference name>” Example: Proceedings of the 30th International Conference of Agricultural Economists
	journal_volume	Use Arabic numerals (do not use Roman numerals). For working papers, record the series number. If no information is specified, leave blank.
	journal_issue	Add journal issue. If no information is specified, leave blank.
	pages	For example: 321-340 If no page numbers given in reference, leave blank. If the paper is not from a journal (e.g., a working paper), leave blank, even if the pages of the PDF are numbered 1-n.
	year_of_publication	Select the year when the print version of the study was published. The format is YYYY. If only publication online use this. If study does not have the year information select 9999.
	publisher_location	Type in the location of the publisher in the following format: City, Country. This is mainly for reports published by organisations. For journal articles, you can leave this blank unless the information is easily found in the PDF
	doi	Code the study's DOI. You may have to find this online by searching for the article. If no information is found, code as "no DOI". Example: 10.1007/s11127-017-0452-x
	abstract	Copy and paste study's abstract. If there's no abstract code, please copy and paste the first pararpagh of the article. If a study is missing an abstract but provides a long executive summary, code as “no abstract.” Ensure there are no line breaks.

Code	Sub-code	Description
	open_access	If the study's full-text content is available free from the publisher, code as "Yes". If study has paywalls code as "No". If the paper is not available free from the publisher, but there is an unpublished version available (e.g., a draft/preprint on the author's website), code this as "No". If you discover that there is more than one published version (e.g., a journal article and a working paper), continue coding whichever version is more complete, and flag this to your supervisor.
	3ie_funded	Code as "Yes" if 3ie is one of the research funders. If not, then code "No".
	publication_type	Select from list: • Journal article • Published working paper (these include discussion papers and technical reports/papers, if they are part of a series) • Published report • 3ie Series Report • 3ie Grantee Final Report • 3ie-funded ongoing study • Book or book chapter
	url	If study is a journal article, enter the URL of the landing page from the journal publisher's website. If study is a published working paper or published report, enter URL of the document's landing page from the publishing website. If study is a published working paper or published report and there is not a landing page, provide url of the full-text PDF.
sector information	sector_name	Select ONE sector that applies according to the intervention evaluation: • Agriculture, fishing & forestry • Education • Energy & extractives • Financial sector • Health • Social protection • Industry, trade & services • Information & communications technologies • Public administration • Transportation • Water, sanitation & waste management

Code	Sub-code	Description
		Sector should apply to the intervention, not the outcome. If the study looks at the effects of a cash transfer programme on health outcomes, the sector is Social Protection, not Health
	sub-sector_name	Select all sub-sectors that apply according to the sector indicated in previous column. For two or more sub-sectors in one sector, enter in a new row. (Note: the dropdown menu will show only subsectors for the sector you selected in the previous column. You must select a sector in the previous column to access the dropdown for this field.) **See World Bank taxonomy for definitions saved in consultant folder**
	first_theme	Select all themes that apply **See World Bank taxonomy for definitions saved in consultant folder** If not applicable, select "not applicable"
	sub-theme_1	Select all sub-themes that apply according to the theme indicated in previous column. For two or more sub-themes for one theme, enter in a new row. (Note: the dropdown menu will show only subsectors for the sector you selected in the previous column. You must select a sector in the previous column to access the dropdown for this field.) **See attached taxonomy for definitions** If not applicable, select "not applicable"
	second_theme	Select all themes that apply **See attached taxonomy for definitions** If not applicable, select "not applicable"
	sub-theme_2	Select all sub-themes that apply according to the theme indicated in previous column. For two or more sub-themes for one theme, enter in a new row. (Note: the dropdown menu will show only subsectors for the sector you selected in the previous column. You must select a sector in the previous column to access the dropdown for this field.) **See attached taxonomy for definitions** If not applicable, select "not applicable"
	third_theme	Select all themes that apply **See attached taxonomy for definitions**
	sub-theme_3	Select all sub-themes that apply according to the theme indicated in previous column. For two or more sub-themes for one theme, enter in a new row. (Note: the dropdown menu will show only subsectors for the sector you selected in the previous column. You must select a sector in the previous column to access the dropdown for this field.) **See attached taxonomy for definitions** If not applicable, select "not applicable"

Code	Sub-code	Description
	other_topics	Select one or more other topics that apply. • Agricultural technology • Business training • Cash transfers • Community driven development • Cost-benefit/effectiveness analysis • Farmer field schools • Humanitarian aid • Microfinance • Payment for ecosystem services • Performance-/results-based financing • Rotating savings and credit associations If none applicable, select "not applicable" **See agency and other topics sheet for definitions**
	keywords	Enter all author provided keywords, one per row. If the author does not provide any or if there are important keywords you think are missing, please add them (maximum 6 in total)
geographic information	continent_name	Select the continent/region in which the study was conducted: • East Asia and Pacific • Europe and Central Asia • Latin America and Caribbean • Middle East and North Africa • North America • South Asia • Sub-Saharan Africa
	country_name	Select the countries in which the study was conducted (drop down menu). (Note: the dropdown menu will show only countries for the continent you selected in the previous column. You must select a continent in the previous column to access the dropdown for this field.) If multiple countries from the same continent, enter the continent again in the previous column, and add additional countries in multiple rows. If multiple countries from multiple continents, repeat this for each continent/country.
	country_income_level	County income status automatically defined using World Bank Atlas Method.
	FCV_status	Fragility status defined using World Bank list.
	region_name	Enter all the regions in which the study took place, if provided in the study. This includes both intervention and control groups. Here, “region” means an administrative

Code	Sub-code	Description
		division of a country that is larger than a state or province. Some countries have such divisions and call them “regions”. Please only use the information available in the papers only. Do not complete desk research to fill the gaps.
	state/province_name	Enter all the states/provinces in which the study took place, if provided in the study. This includes both intervention and control groups. If the state/province is not identified, but you can infer it from other geographic information provided and a little bit of internet searching, enter it here. Please only use the information available in the papers only. Do not complete desk research to fill the gaps. If there are multiple states/provinces from the same region, be sure to repeat the region name from the previous columns on each row also repeat not specified if the region is not specified, so that in each cell in which a state/province appears, it is paired with the /region on the same row.
	district_name	Enter all the districts in which the study took place, if provided in the study. This includes both intervention and control groups. If the district is not identified, but you can infer it from other geographic information provided and a little bit of internet searching, enter it here. Please only use the information available in the papers only. Do not complete desk research to fill the gaps. If there are multiple districts from the same state/province, be sure to repeat the state/provice name from the previous column on each row also do this if the name is not specified, so that in each cell in which a district appears, it is paired with the state/province on the same row.
	city/town_name	Enter all the cities, towns or villages in which the study took place, if provided in the study. This includes both intervention and control groups. Please only use the information available in the papers only. Do not complete desk research to fill the gaps. If there are multiple cities/towns from the same district, be sure to repeat the district name from the previous column on each row also do this if the name is not specified, so that in each cell in which a city/town appears, it is paired with the district on the same row.

Code	Sub-code	Description
	location_name	Enter any locations in which the study took place. This includes both intervention and control groups. Locations can be broad geographic areas that extend across regions or villages. Locations can also be specific target locations that go beyond the city, town or village level, such as municipality, parish and neighbourhood, among others. Please only use the information available in the papers only. Do not complete desk research to fill the gaps. If there are multiple locations, make sure they are paired with the relevant administrative divisions in the previous columns (this may not be possible if the location cuts across multiple administrative divisions.
methodological information	evaluation_design	Select one of two options defined as: **1. Experimental:** a) RCT defined as prospective randomised assignment, where randomisation is implemented by researchers (or by decision makers in the context of an evaluation study) **2. Quasi-experimental:** a) Quasi-random assignment: i) regression discontinuity design (sharp designs) or ii) natural experiment in which exposure to treatment is random b) Non-random assignment: i) Studies that control for unobservables (DID, FE, IV, Fuzzy RDD, ITS) or ii) studies that control for observables only (e.g. statistical matching, synth control, regression adjustment)
	evaluation_method	**If Experimental then select:** Randomised controlled trials **If Quasi-experimental then select:** Sharp RDD DID FE estimation IV estimation Fuzzy RDD Statistical matching (includes PSM) Synthetic control group
	mixed_method	Select YES if study includes quantitative and qualitative analyses, otherwise select NO.
	additional_methods1	Select additional method if any. If none, use N/A
	additional_methods2	Select additional method if any. If none, use N/A
	unit_of_observation	Enter all the levels of observation of the variables used for the analysis: • Country

Code	Sub-code	Description
		• Community • Village/city • Cohort (includes schools or clinics) • Household • Individual • Non-human If more than one, include in separate rows.
	study_status	Is the study ongoing or complete? Ongoing, complete
program, funding & implementation	project__programme_name	Code the name of the project/program being evaluated (if any)
	implementation_agency_ category	Select one of the following: • Government agency • International Aid Agency • International Financial Institution • Non-Profit Organization • For-Profit Firm • Academic Institution • Charitable Foundation or Private Foundation Not specified **See agency and other topics sheet for definitions**
	implementation_agency_ name	Input the name of the agenc(ies) implementing the program
	program_funding_agency_category	What category of funding agency funded the program? Note: only code if reported in the study, no need to do additional research to find. Select one of the following: • Government agency • International Aid Agency • International Financial Institution • Non-Profit Organization • For-Profit Firm • Academic Institution • Charitable Foundation or Private Foundation • Not specified **See agency and other topics sheet for definitions**
	program_funding_agency_name	Input the name of the agenc(ies) funding the research (note: this is not the same as organizations that fund the research of the evaluation)
	researching_funding_agency_category	What category of funding agency funded the research? Note: only code if reported in the study, no need to do additional research to find. Select one of the following:

Code	Sub-code	Description
		• Government agency • International Aid Agency • International Financial Institution • Non-Profit Organization • For-Profit Firm • Academic Institution • Charitable Foundation or Private Foundation • Not specified **See agency and other topics sheet for definitions**
	researching_funding_agency_name	Input the name of the agenc(ies) funding the research (note: this is not the same as organizations that fund the program). If the paper has an "Acknowledgements" section, this information can usually be found there.
Population targeting	age	If you identify another code option please email the core team to discuss this. Select the intervention age group (in years) from one of the following: <2 2=<x<5 5=<x<10 10=<x<20 (adolescent 10-19 - WHO definition) 20=<x<60 >60 (elderly) Not specified, i.e. the age of the human target population is not reported specifically. Not applicable, i.e. the target population is not human.
	sex	Select on option from list: **Male** **Female** **Both** **Not specified**, i.e. the sex of the human target population is not specified. **Not applicable**, i.e. the target population is not human.

Code	Sub-code	Description
	reproductive_state	Code the study if the if the population targeted relates to one of the following reproductive states of women. Select all that apply: **Pregnant -** The target population is specifically stated to be women that have a child or young developing in their uterus. **Postpartum -** The target population is specifically stated to be in the period just after the delivery of a baby. It begins immediately after the birth, and lasts for a culturally variable length: typically for one month or 30 days, up to 40 days, two months or 100 days. **Lactating -** Where the target population is specifically stated is "lactating women". **Pre-menarchal girls -** The target population is specifically stated to be of, relating to, or being in the period of life of a female before the first menstrual period occurs. **Post-menarchal girls -** The target population is specifically stated to be of, relating to, or being in the period of life of a female after the first menstrual period occurs. **Menopausal women** - The target population is specifically stated to be women going through menopause, which is when a woman stops having periods and is no longer able to get pregnant naturally. **Post-menopausal women** - The target population is specifically stated to be women who have been through menopause, which is when a woman stops having periods and is no longer able to get pregnant naturally. not applicable, i.e. the target population of the study is not pregnant women.
	rural_urban	Is the target population studied based in which of the following areas: **Rural:** The authors specifically state the target population was based in a rural area. **Peri-urban:** The authors specifically state the target population was based in a peri-rural area, i.e. an area that is not fully characterised as either rural or urban, e.g. outskirts of cities. **Urban:** The authors specifically state the target population was based in an urban area. **Rural and urban:** The authors specifically state the target population was based in both rural and urban areas. **Not specified:** The location of the target population is not specified If it does not mention rural or urban, but says it takes place in a city then select urban and if it says the countryside then select rural. If the article does not refer to one of these categories but states the specific location of the target population, look this location up and make an assessment, listing the source you used.

Code	Sub-code	Description
		If the article does not make reference to one of these categories but states the specific location of the target population, look this location up and make an assessment, listing the source you used.
	scale	Select the scale of the intervention from list: **Local -** the study takes place within one region. **Subnational -** The study takes place across one or more regions. **National -** the study is stated to be evaluating a national programme by the authors **Transnational** - the study takes place across multiple countries.
	study_setting	Select from list where the target population was primarily located: **Household-** the intervention was primarily located within the household. **Hospital-** the intervention was primarily located in the hospital. **School-** the intervention was primarily located at a school. **Farm-** the intervention was primarily located at a farm. **Business-**the intervention was primarily located at the intervention groups workplace. **Community-** the intervention was primarily located in the community at a larger scale than the other alternatives.
Cost	cost_data	Does the study report any cost data? Yes; No
	cost_data_2	If you answered "yes" to the cost data code select any of the following that apply: -The programme budget is stated is some form. e.g. presented in total or per capita. -Programme budget is disaggregated by inputs and activities, e.g. cost data is broken down by specific line items -Programme budget is disaggregated over time, eg. years -Some anlaysis of costs is undertaken, e.g analysis of changes over time or deteminants of budget changes -Some comparison between costs and additional benefits is made using a cited method, e.g. cost-benefit analysis, cost effectivness analysis, economic evaluation. -Other (specify) Please see the consultant folder here (https://bit.ly/3eSyVdw) for examples of studies that include cost analysis.
	cost_other	Report the exact approach taken to report and/or analyse cost data using verbatim from the study, making sure to report the page number where this is stated.
Framework - Intervention	multicomponent_intervention	Code this after you code the interventions and outcomes: 1. Is there more than one intervention subcode applied to this intervention? If yes, go to question 2

Code	Sub-code	Description
		If no, code as No 2. Is each intervention subcode evaluated independently, i.e. separate effect sizes estimated for each intervention subcomponent, e.g. 2x2 design, separate evaluations reported in 1 study. If yes, code as - "Multiple components, but evaluated separately" If no, code as - "Multiple components, not evaluated separately"
	intervention_domain	Code the primary intervention domain in which the intervention takes place: -A. Food supply chain -B. Food environment -C. Consumer behaviour
	intervention_group	Code the primary domain in which the intervention takes place: • FSC: Food production system • FSC: Food distribution and storage • FSC: Food processing and packaging • FSC: Food loss and waste management • FE: Food availability and affordability • FE: Promotion and labelling • FE: Food quality and safety • CB: Women's empowerment and decision-making • CB: Information/BCC
	intervention _subgroup	Select all intervention groups that apply according to the sub-domain indicated in previous column. For two or more intervention groups in one sub-domain, enter in a new row. **See interventions sheet for definitions**
	intervention_description	Verbatim from study and page number. Please report up to 3 sentences only that explain in basic terms what the intervention is.
Framework - Outcome	outcome_type	Code the outcome type as stated in the publication: -Final -Intermediate These are listed and categorised in the "outcomes" tab"
	outcome_group	Code the primary outcome category as stated in the publication: • FIN: Anthropometric • FIN: Micronutrient status • FIN: Diet quality and adequacy

Code	Sub-code	Description
		• FIN: Food safety • FIN: Food affordability and availability • INT: Economic • INT: Agricultural • INT: Bio nutritional outcomes • INT: Advertising and labelling • INT: Food distribution • INT: Environmental impacts of the food system • INT: Food loss • INT: Intrinsic motivators • INT: Women's empowerment • INT: Regulatory • INT: Changes in time use • INT: Adoption of promoted behaviours INT = Intermediate outcome FIN = Final outcome
	outcome _subgroup	Select all outcome sub-groups that apply according to the main outcome group indicated in the previous column. For two or more outcome sub-groups in one main outcome group, enter a new row. **See outcomes sheet for definitions**
	outcome_description	Verbatim from study and page number.

Appendix F: Systematic review critical appraisal tool

This is a checklist for making judgements about how much confidence to place in a systematic review of effects. The checklist has been adapted from Supporting the Use of Research Evidence (SURE) Collaboration. SURE, checklist for making judgements about how much confidence to place in a systematic review.

Table D1: Systematic review critical appraisal

Question	Criteria
Section A: Methods used to identify, include and critically appraise studies	
A.1 Were the criteria used for deciding which studies to include in the review reported? Did the authors specify: Types of studies Participants/ settings/ population Intervention(s) Outcome(s)	Yes; partially; no; can't tell *Coding guide - check the answers above* *YES: All four should be yes* *NO: All four should be no* *PARTIALLY: Any other*
A.2 Was the search for evidence reasonably comprehensive? Were the following done: Language bias avoided (no restriction of inclusion based on language) No restriction of inclusion based on publication status Relevant databases searched (Minimum criteria: All reviews should search at least one source of grey literature such as Google; for health: Medline/ Pubmed + Cochrane Library; for social sciences IDEAS + at least one database of general social science literature and one subject specific database) Reference lists in included articles checked Authors/experts contacted	Yes; partially; no; can't tell *Coding guide - check the answers above:* *YES: All five should be yes* *PARTIALLY: Relevant databases and reference lists are both reported* *NO: Any other*

Question	Criteria
A.3 Does the review cover an appropriate time period? *Is the search period comprehensive enough that relevant literature is unlikely to be omitted?*	Yes; can't tell (only use if no information about time period for search); no; unsure *Coding guide:* *YES: Generally, this means searching the literature at least back to 1990* *NO: Generally, if the search does not go back to 1990* *CAN'T TELL: No information about time period for search* *Note: With reference to the above – there may be important reasons for adopting different dates for the search, e.g. depending on the intervention. If you think there are limitations with the timeframe adopted for the search which have not been noted and justified by the authors, you should code this item as a NO and specify your reason for doing so in the comment box below. Older reviews should not be downgraded, but the fact that the search was conducted some time ago should be noted in the quality assessment. Always report the time period for the search in the comment box.*
A.4 Was bias in the selection of articles avoided? Did the authors specify: Independent screening of full text by at least 2 reviewers List of included studies provided List of excluded studies provided	Yes; partially; no *Coding guide:* *YES: All three should be yes, although reviews published in journals are unlikely to have a list of excluded studies (due to limits on word count) and the review should not be penalised for this.* *PARTIALLY: Independent screening and list of included studies provided are both reported* *NO: All other. If list of included studies provided, but the authors do not report whether or not the screening has been done by 2 reviewers review is downgraded to NO.*
A.5 Did the authors use appropriate criteria to assess the quality and risk of bias in analysing the studies that are included? The criteria used for assessing the quality/ risk of bias were reported A table or summary of the assessment of each included study for each criterion was reported Sensible criteria were used that focus on the quality/ risk of bias (and not other qualities of the studies, such as precision or applicability/external validity). "Sensible" is defined as a recognised quality appraisal tool/ checklist, or similar tool which assesses bias in included studies. Please see footnotes for details of the main types of bias such a tool should assess.	Yes; partially; no *Coding guide:* *YES: All three should be yes* *PARTIALLY: The first and third criteria should be reported. If the authors report the criteria for assessing risk of bias and report a summary of this assessment for each criterion, but the criteria may be only partially sensible (e.g. do not address all possible risks of bias, but do address some), we downgrade to PARTIALLY.* *NO: Any other*

Question	Criteria
A.6 Overall – how much confidence do you have in the methods used to identify, include and critically appraise studies? *Summary assessment score A relates to the 5 questions above.* *High confidence applicable when the answers to the questions in section A are all assessed as 'yes'* *Low confidence applicable when any of the following are assessed as 'NO' above: not reporting explicit selection criteria (A1), not conducting reasonably comprehensive search (A2), not avoiding bias in selection of articles (A4), not assessing the risk of bias in included studies (A5)* *Medium confidence applicable for any other – i.e. section A3 is assessed as 'NO' or can't tell and remaining sections are assessed as 'partially' or 'can't tell'*	**Low confidence** (limitations are important enough that the results of the review are not reliable) **Medium confidence** (limitations are important enough that it would be worthwhile to search for another systematic review and to interpret the results of this review cautiously, if a better review cannot be found) **High confidence** (only minor limitations)
Section B: Methods used to analyse the findings	
B.1 Were the characteristics and results of the included studies reliably reported? Was there: • Independent data extraction by at least 2 reviewers • A table or summary of the characteristics of the participants, interventions and outcomes for the included studies • A table or summary of the results of all the included studies	Yes; no; partially; not applicable (e.g. no included studies) *Coding guide:* *YES: All three should be yes* *PARTIALLY: Criteria one and three are yes, but some information is lacking on second criteria.* *No: None of these are reported. If the review does not report whether data was independently extracted by 2 reviewers (possibly a reporting error), we downgrade to NO.* *NOT APPLICABLE: if no studies/no data*
B.2 Are the methods used by the review authors to analyse the findings of the included studies clear, including methods for calculating effect sizes if applicable?	Yes; partially; no; not applicable *Coding guide:* *YES: Methods used clearly reported. If it is clear that the authors use narrative synthesis, they don't need to say this explicitly.* *PARTIALLY: Some reporting on methods but lack of clarity* *NO: Nothing reported on methods* *NOT APPLICABLE: if no studies/no data*

Question	Criteria
B.3 Did the review describe the extent of heterogeneity? Did the review ensure that included studies were similar enough that it made sense to combine them, sensibly divide the included studies into homogeneous groups, or sensibly conclude that it did not make sense to combine or group the included studies? Did the review discuss the extent to which there were important differences in the results of the included studies? If a meta-analysis was done, was the I^2, chi square test for heterogeneity or other appropriate statistic reported? If no statistical test was reported, is a qualitative justification made for the use of random effects?	Yes; partially; no; not applicable *Coding guide:* *YES: First two should be yes, and third category should be yes if applicable should be yes* *PARTIALLY: The first category is yes* *NO: Any other* *NOT APPLICABLE: if no studies/no data*
B.4 Were the findings of the relevant studies combined (or not combined) appropriately relative to the primary question the review addresses and the available data? How was the data analysis done? Descriptive only Vote counting based on direction of effect Vote counting based on statistical significance Description of range of effect sizes Meta-analysis Meta-regression Other: specify Not applicable (e.g. no studies or no data) How were the studies weighted in the analysis? Equal weights (this is what is done when vote counting is used) By quality or study design (this is rarely done) Inverse variance (this is what is typically done in a meta-analysis) Number of participants (sample size) Other: specify Not clear Not applicable (e.g. no studies or no data) Did the review address unit of analysis errors? Yes - took clustering into account in the analysis (e.g. used intra-cluster correlation coefficient) No, but acknowledged problem of unit of analysis errors No mention of issue Not applicable - no clustered trials or studies included	Yes; partially; no; not applicable (e.g. no studies or no data); can't tell. *Coding guide:* *YES: If appropriate table, graph or meta-analysis AND appropriate weights AND unit of analysis errors addressed (if appropriate).* *PARTIALLY: If appropriate table, graph or meta-analysis AND appropriate weights AND unit of analysis errors not addressed (and should have been).* *NO: If narrative OR vote counting (where quantitative analyses would have been possible) OR inappropriate reporting of table, graph or meta-analyses.* *NOT APPLICABLE: if no studies/no data* *CAN'T TELL: if unsure (note reasons in comments below)*

Question	Criteria
B.5 Does the review report evidence appropriately? The review makes clear which evidence is subject to low risk of bias in assessing causality (attribution of outcomes to intervention), and which is likely to be biased, and does so appropriately Where studies of differing risk of bias are included, results are reported and analysed separately by risk of bias status	Yes; partially; no; not applicable *Coding guide:* *YES: Both criteria should be fulfilled (where applicable)* *NO: Criteria not fulfilled* *PARTIALLY: Only one criterion fulfilled, or when there is limited reporting of quality appraisal (the latter applies only when inclusion criteria for study design are appropriate)* *NOT APPLICABLE: No included studies* *Note on reporting evidence and risk of bias: For reviews of effects of 'large n' interventions, experimental and quasi-experimental designs should be included (if available). For reviews of effects of 'small n' interventions, designs appropriate to attribute changes to the intervention should be included (e.g. pre-post with assessment of confounders)*
B.6 Did the review examine the extent to which specific factors might explain differences in the results of the included studies? Were factors that the review authors considered as likely explanatory factors clearly described? Was a sensible method used to explore the extent to which key factors explained heterogeneity? Descriptive/textual Graphical Meta-analysis by sub-groups Meta-regression Other	Yes; partially; no; not applicable *Coding guide:* *YES: Explanatory factors clearly described and appropriate methods used to explore heterogeneity* *PARTIALLY: Explanatory factors described but for meta-analyses, sub-group analysis or meta-regression not reported (when they should have been)* *NO: No description or analysis of likely explanatory factors* *NOT APPLICABLE: e.g. too few studies, no important differences in the results of the included studies, or the included studies were so dissimilar that it would not make sense to explore heterogeneity of the results*
B.7 Overall - how much confidence do you have in the methods used to analyse the findings relative to the primary question addressed in the review? *Summary assessment score B relates to the 5 questions in this section, regarding the analysis.* *High confidence applicable when all the answers to the questions in section B are assessed as 'yes'.* *Low confidence applicable when any of the following are assessed as 'NO' above: critical characteristics of the included studies not reported (B1), not describing the extent of heterogeneity (B3), combining results inappropriately (B4), reporting evidence inappropriately (B5).* *Medium confidence applicable for any other: i.e. the "Partial" option is used for any of the 6 preceding questions or questions and/or B.2 and/ or B.6 are assessed as 'no'.*	**Low confidence** (limitations are important enough that the results of the review are not reliable) **Medium confidence** (limitations are important enough that it would be worthwhile to search for another systematic review and to interpret the results of this review cautiously, if a better review cannot be found) **High confidence** (only minor limitations)

Question	Criteria
Section C: Overall assessment of the reliability of the review	
C.1 Are there any other aspects of the review not mentioned before which lead you to question the results?	Additional methodological concerns – only one person reviewing Robustness Interpretation Conflicts of interest (of the review authors or for included studies) Other No other quality issues identified
C.2 Are there any mitigating factors which should be considered in determining the reviews reliability?	Limitations acknowledged No strong policy conclusions drawn (including in abstract/ summary) Any other factors
C.3 Based on the above assessments of the methods how would you rate the reliability of the review? **Low confidence in conclusions about effects**: **Medium confidence in conclusions about effects**: The systematic review has the following limitations... **High confidence in conclusions about effects**: If applicable: The review has the following minor limitations... *Coding guide:* **High confidence in conclusions about effects**: high confidence noted overall for sections A and B, unless moderated by answer to C1. **Medium confidence in conclusions about effects**: medium confidence noted overall for sections A or B, unless moderated by answer to C1 or C2. **Low confidence in conclusions about effects**: low confidence noted overall for sections A or B, unless moderated by answer to C1 or C2. Limitations should be summarised above, based on what was noted in Sections A, B and C.	

Appendix G: References

Included impact evaluations

Aaron G J, Ba Lo N, Hess S Y, Guiro A T, Wade S, Brown K H, 2011a. Plasma zinc concentration increases within 2 weeks in healthy Senegalese men given liquid supplemental zinc, but not zinc-fortified wheat bread. The Journal of nutrition 141, 1369–74. https://doi.org/10.3945/jn.110.136952

Aaron G J, Kariger P, Aliyu R, Flach M, Iya D, Obadiah M, Baker S K, 2011b. A multi-micronutrient beverage enhances the vitamin A and zinc status of Nigerian primary schoolchildren. The Journal of nutrition 141, 1565–72. https://doi.org/10.3945/jn.110.136770

Abass A B, Fischler M, Schneider K, Daudi S, Gaspar A, Rüst J, Kabula E, Ndunguru G, Madulu D, Msola D, 2018. On-farm comparison of different postharvest storage technologies in a maize farming system of Tanzania Central Corridor. Journal of stored products research 77, 55–65. https://doi.org/10.1016/j.jspr.2018.03.002

Abate G T, Bernard T, de Brauw A, Minot N, 2018. The impact of the use of new technologies on farmers' wheat yield in Ethiopia: evidence from a randomized control trial. Agricultural Economics (United Kingdom) 49, 409–421. https://doi.org/10.1111/agec.12425

Abate G T, Bernard T, Makhija S, Spielman D J, 2019. Accelerating technical change through video-mediated agricultural extension: evidence from Ethiopia. IFPRI - Discussion Papers 74. https://doi.org/10.2499/p15738coll2.133323

Abdel-Aziz S B, Hegazy I S, Mohamed D A, Abdul El-Kasem MMA, Hagag SS, 2018. Effect of dietary counseling on preventing excessive weight gain during pregnancy. Public Health 154, 172–181. https://doi.org/10.1016/j.puhe.2017.10.014

Abdoulaye I D, Sanders J H, 2013. A Matching Approach to Analyze the Impact of New Agricultural Technologies: Productivity and Technical Efficiency in Niger. https://doi.org/10.22004/ag.econ.150434

Abdulahi M, Fretheim A, Magnus J H, 2018. Effect of breastfeeding education and support intervention (BFESI) versus routine care on timely initiation and exclusive breastfeeding in Southwest Ethiopia: study protocol for a cluster randomized controlled trial. BMC pediatrics 18. https://doi.org/10.1186/s12887-018-1278-5

Abdul-Hanan A, Ayamga M, Awuni J A, 2019. Impact of Agricultural Credit on Farm Income under the Savanna and Transitional Zones of Ghana. Agricultural Finance Review 79, 60–84. https://doi.org/10.1108/AFR-02-2018-0009

Abebaw D, Fentie Y, Kassa B, 2010. The impact of a food security program on household food consumption in Northwestern Ethiopia: a matching estimator approach. Food Policy 35, 286–293. https://doi.org/10.1016/j.foodpol.2010.01.002

Abebe Y, Bekele A, 2014. The Impact Of Soil And Water Conservation Program On The Income And Productivity Of Farm Households In Adama District, Ethiopia. Science, Technology and Arts Research Journal 3, 198–203. https://doi.org/10.4314/star.v3i3.32

Abedi P, Lee M H, Kandiah M, Yassin Z, Shojaeezade D, Hosseini M, Malihi R, 2010. Diet intervention to improve cardiovascular risk factors among Iranian postmenopausal women. Nutrition research and practice 4, 522–527. https://doi.org/10.4162/nrp.2010.4.6.522

Abi M, Kessler A, Oosterveer P, Tolossa D, 2019. Adapting the current mass mobilization approach in Ethiopia to enhance its impact on sustainable land management: Lessons from the Sago-kara watershed. Journal of Environmental Management 248, N.PAG-N.PAG. https://doi.org/10.1016/j.jenvman.2019.109336

Abizari A R, Moretti D, Zimmermann M B, Armar-Klemesu M, Brouwer I D, 2012. Whole cowpea meal fortified with NaFeEDTA reduces iron deficiency among Ghanaian school children in a malaria endemic area. Journal of Nutrition 142, 1836–1842.

Abizari A, Buxton C, Kwara L, Mensah-Homiah J, Armar-Klemesu M, Brouwer I D, 2014. School feeding contributes to micronutrient adequacy of Ghanaian schoolchildren. British Journal of Nutrition 112, 1019–1033. https://doi.org/10.1017/S0007114514001585

Aboud F E, Akhter S, 2011. A cluster-randomized evaluation of a responsive stimulation and feeding intervention in Bangladesh. Pediatrics 127, e1191–e1197. https://doi.org/10.1542/peds.2010-2160

Aboud F E, Bougma K, Lemma T, Marquis G S, 2017. Evaluation of the effects of iodized salt on the mental development of preschool-aged children: a cluster randomized trial in northern Ethiopia. Maternal and Child Nutrition 13, e12322.

Aboud F E, Shafique S, Akhter S, 2009. A responsive feeding intervention increases children's self-feeding and maternal responsiveness but not weight gain. The Journal of nutrition 139, 1738–43. https://doi.org/10.3945/jn.109.104885

Aboud Frances E, Singla Daisy R, Nahil Imam, Borisova Ivelina, 2013. Effectiveness Of A Parenting Program In Bangladesh To Address Early Childhood Health, Growth And Development. Social Science & Medicine 97, 250–258. https://doi.org/10.1016/j.socscimed.2013.06.020

Abrams S A, Mushi A, Hilmers D C, Griffin I J, Davila P, Allen L, 2003. A multinutrient-fortified beverage enhances the nutritional status of children in Botswana. The Journal of nutrition 133, 1834–40.

Acar Mukkades Demir, Bayat Meral, 2019. The Effect of Diet-Exercise Trainings Provided to Overweight and Obese Teenagers through Creative Drama on Their Knowledge, Attitude, and Behaviors. Childhood obesity (print) 15, 93-104. https://doi.org/10.1089/chi.2018.0046

Acero Carolina González, Martinez Sebastian, Pérez-Expósito Ana, Winters Solis, 2020. Effect of an innovative behavioural change strategy and small-quantity lipid-based nutrient supplements on stunting and obesity in children in Baja Verapaz, Guatemala: protocol for a randomised control trial. BMJ Open 10. https://doi.org/10.1136/bmjopen-2019-035528

Achonga B O, Lagat J K, Akuja T E, 2011. Evaluation of the diversity of crop and livestock enterprises among agro-biodiversity farmer field schools (ABD-FFS) and non-ABD-FFS households in Bondo District, Kenya. Journal of Applied Biosciences 38, 2586–2591.

Adam, M., Tomlinson, M., Le Roux, I., LeFevre, A.E., McMahon, S.A., Johnston, J., Kirton, A., Mbewu, N., Strydom, S.-L., Prober, C., Bärnighausen, T., 2019. The Philani MOVIE study: a cluster-randomized controlled trial of a mobile video entertainment-education intervention to promote exclusive breastfeeding in South Africa. BMC Health Serv Res 19, 211. https://doi.org/10.1186/s12913-019-4000-x

Adams A M, Ahmed R, Latif A H M M, Rasheed S, Das S K, Hasib E, Farzana F D, Ferdous F, Ahmed S, Faruque A, 2017. Impact of fortified biscuits on micronutrient deficiencies among primary school children in Bangladesh. PloS one 12, e0174673. https://doi.org/10.1371/journal.pone.0174673

Adams K P, Adu-Afarwuah S, Bentil H, Oaks B M, Young R R, Vosti S A, Dewey K G, 2019. The effects of a nutrient supplementation intervention in Ghana on parents' investments in their children. PloS one 14, e0212178. https://doi.org/10.1371/journal.pone.0212178

Adams K P, Lybbert T J, Vosti S A, Ayifah E, Arimond M, Adu-Afarwuah S, Dewey K G, 2018. Unintended effects of a targeted maternal and child nutrition intervention on household expenditures, labor income, and the nutritional status of non-targeted siblings in Ghana. World Development (Oxford) 107, 138–150. https://doi.org/10.1016/j.worlddev.2018.02.025

Adegbite D A, Adubi K O, Oloruntoba A, Oyekunle O, Sobanke S B, 2007. Impact of National Fadama Development Project II on small-scale farmers' income in Ogun State: implications for financial support to farmers. ASSET - Series C: Humanities and Social Sciences 110–130.

Adelman S, Gilligan D O, Konde-Lule J, Alderman H, 2019. School Feeding Reduces Anemia Prevalence in Adolescent Girls and Other Vulnerable Household Members in a Cluster Randomized Controlled Trial in Uganda. The Journal of nutrition 149, 659–666. https://doi.org/10.1093/jn/nxy305

Adhisivam, B., Kohat, D., Tanigasalam, V., Bhat, V., Plakkal, N., Palanivel, C., 2019. Does fortification of pasteurized donor human milk increase the incidence of necrotizing enterocolitis among preterm neonates? A randomized controlled trial. The Journal of Maternal-Fetal & Neonatal Medicine 32, 3232–3237. https://doi.org/10.1080/14767058.2018.1461828

Aditi S, Kanani S J, 2009. Impact of iron-folic acid supplementation on cognitive abilities of school girls in Vadodara. Indian Pediatrics 46, 137–143.

Adom T, Steiner-Asiedu M, Sakyi-Dawson E, Anderson A K, 2010. Effect of fortification of maize with cowpea and iron on growth and anaemia status of children. African Journal of Food Science 4, 136–142.

Adriani M, Wirjatmadi B, 2012. The role of albumin in adding zinc to vitamin A supplementation on taste aquity and body weight in wested children. International Proceedings of Chemical, Biological and Environmental Engineering (IPCBEE) 39, 142–146.

Adu-Afarwuah S, Lartey A, Brown K H, Zlotkin S, Briend A, Dewey K G, 2008. Home fortification of complementary foods with micronutrient supplements is well accepted and has positive effects on infant iron status in Ghana. The American journal of clinical nutrition 87, 929–38.

Adu-Afarwuah S, Lartey A, Okronipa H, Ashorn P, Zeilani M, Peerson J M, Arimond M, Vosti S, Dewey K G, 2015. Lipid-based nutrient supplement increases the birth size of infants of primiparous women in Ghana. American Journal of Clinical Nutrition 101, 835–846. https://doi.org/10.3945/ajcn.114.091546

Adu-Afarwuah S, Lartey A, Brown Kenneth H, Zlotkin S, Briend A, Dewey K G, 2007. Randomized comparison of 3 types of micronutrient supplements for home fortification of complementary foods in Ghana: effects on growth and motor development [electronic resource]. American journal of clinical nutrition AJN 86, 412–420. https://doi.org/10.1093/ajcn/86.2.412

Adu-Baffour Ferdinand, Daum Thomas, Birner Regina, 2018. Can Big Companies' Initiatives to Promote Mechanization Benefit Small Farms in Africa? A Case Study from Zambia 262. https://doi.org/10.2139/ssrn.3194436

Adubra Laura, Port Agnes le, Kameli Yves, Fortin Sonia, Mahamadou Tanimoune, Ruel Marie T, Martin-Prevel Yves, Savy Mathilde, 2019. Conditional cash transfer and/or lipid-based nutrient supplement targeting the first 1000 d of life increased attendance at preventive care services but did not improve linear growth in young children in rural Mali: results of a cluster-randomized controlled trial. American Journal of Clinical Nutrition 110, 1476–1490. https://doi.org/10.1093/ajcn/nqz238

Afolami C A, Obayelu A E, Vaughan I I, 2015. Welfare Impact of Adoption of Improved Cassava Varieties by Rural Households in South Western Nigeria. Agricultural and Food Economics 3. https://doi.org/10.1186/s40100-015-0037-2

Afridi Farzana, 2010. Child welfare programs and child nutrition: Evidence from a mandated school meal program in India. Journal of Development Economics 152. https://doi.org/10.1016/j.jdeveco.2009.02.002

Agapova S E, Stephenson K B, Divala O, Kaimila Y, Maleta K M, Thakwalakwa C, Ordiz M I, Trehan I, Manary M J, 2018. Additional common bean in the diet of Malawian children does not affect linear growth, but reduces intestinal permeability. Journal of Nutrition 148, 267–274. https://doi.org/10.1093/jn/nxx013

Agarwal B, 2019. Does group farming empower rural women? Lessons from India's experiments. Journal of Peasant Studies 47, 841–872. https://doi.org/10.1080/03066150.2019.1628020

Aggarwal D, Sachdev H P. S, Nagpal J, Singh T, Mallika V, 2005. Haematological effect of iron supplementation in breast fed term low birth weight infants. Archives of Disease in Childhood 90, 26–29. https://doi.org/10.1136/adc.2003.040410

Aggarwal Shilpa, Francis Eilin, Robinson Jonathan, 2018. Grain Today, Gain Tomorrow: Evidence from a Storage Experiment with Savings Clubs in Kenya. Journal of Development Economics 134, 1–15. https://doi.org/10.1016/j.jdeveco.2018.04.001

Agostoni C, Giovannini M, Sala D, Usuelli M, Livio L, Francescato G, Braga M, Riva E, Martiello A, Colombo C, Marangoni F, Galli C, 2007. Double-blind, placebo-controlled trial comparing effects of supplementation of two micronutrient sprinkles on fatty acid status in Cambodian infants. Journal of Pediatric Gastroenterology and Nutrition 44, 136–142. https://doi.org/10.1097/01.mpg.0000243429.24463.2f

Agrina, Sabrian F, Zulfitri R, Arneliwati, Herlina, Dewi A P, 2019. The effectiveness of simulation health education to mother breastfeeding skill between two groups in rural area of Riau, Indonesia. Enfermeria Clinica 29, 9–12. https://doi.org/10.1016/j.enfcli.2018.11.006

Aguayo V M, 2009. School-administered weekly iron supplementation--effect on the growth and hemoglobin status of non-anemic Bolivian school-age children. A randomized placebo-controlled trial. European Journal of Nutrition 39, 263–9. https://doi.org/10.1007/s003940070005

Aguilar Estava Arturo, Gutierrez Emilio, Seira Enrique, 2019. The Effectiveness of Sin Food Taxes: Evidence from Mexico. SSRN. https://doi.org/10.2139/ssrn.3510243

Agustina R, Bovee-Oudenhoven I M. J, Lukito W, Fahmida U, Rest O van de, Zimmermann M B, Firmansyah A, Wulanti R, Albers R, Heuvel E G. H. M. van den, Kok F J, 2013. Probiotics Lactobacillus reuteri DSM 17938 and Lactobacillus casei CRL 431 modestly increase growth, but not iron and zinc status, among Indonesian children aged 1-6 years. Journal of Nutrition 143, 1184–1193. https://doi.org/10.3945/jn.112.166397

Ahmad Muhammad Owais, Sughra Ume, Kalsoom Umay, Imran Muhammad, Hadi Usman, 2012. Effect of antenatal counselling on exclusive breastfeeding. Journal of Ayub Medical College, Abbottabad : JAMC 24, 116–9.

Ahmad N, Shariff Z M, Mukhtar F, Lye M, 2018. Family-based intervention using face-to-face sessions and social media to improve Malay primary school children's adiposity: a randomized controlled field trial of the Malaysian REDUCE programme. Nutrition journal 17, 74. https://doi.org/10.1186/s12937-018-0379-1

Ahmad S M, Hossain M B, Md Monirujjaman, Sharmin Islam, Huda M N, Yearul Kabir, Rubhana Raqib, Lonnerdal B L, 2016. Maternal zinc supplementation improves hepatitis B antibody responses in infants but decreases plasma zinc level. European Journal of Nutrition 55, 1823–1829. https://doi.org/10.1007/s00394-015-0999-6

Ahmed A, Hoddinott J, Roy S, Sraboni E, 2019. Transfers, nutrition programming, and economic well-being: experimental evidence from Bangladesh., IFPRI - Discussion Papers. https://doi.org/10.2499/p15738coll2.133450

Ahmed A U, 2004. Impact of Feeding Children in School: Evidence from Bangladesh.

Ahmed Akhter, Hoddinott John, Roy Shalini, 2019a. Food transfers, cash transfers, behavior change communication and child nutrition evidence from Bangladesh. IFPRI - Discussion Papers. https://doi.org/10.2499/p15738coll2.133420

Ahmed Akhter, Roy Shalini, Hoddinott John, Hidrobo Melissa, 2019b. Sustainability of Impacts of Cash Transfers, Food Transfers, and Behavior Change Communication in Bangladesh. Clinicaltrials.gov.

Ahmed Akhter U, Hoddinott John F, Shaiful Islam Kazi Md, Khan A S.M. Mahbubur Rahman, Abedin Naveen, Hossain Nusrat Z, 2019. IMPACTS OF BT BRINJAL (EGGPLANT) TECHNOLOGY IN BANGLADESH. International Food Policy Research Institute.

Ahmed Akhter U, Quisumbing Agnes R, Nasreen Mahbuba, Hoddinott John F, Bryan Elizabeth, 2009. Relative Efficacy of Food and Cash Transfers in Improving Food Security and Livelihoods of the Ultra-Poor in Bangladesh, International Food Policy Research Institute (IFPRI) Discussion Paper Series. Completed.

Ahmed Azza H, 2008. Breastfeeding preterm infants: an educational program to support mothers of preterm infants in Cairo, Egypt. Pediatric nursing 34, 125–138.

Ahmed Faruk, Khan Moududur R, Akhtaruzzaman Mohammad, Karim Rezaul, Williams Gail, Banu Cadi P, Nahar Badrun, Darnton-Hill Ian, 2012. Effect of long-term intermittent supplementation with multiple micronutrients compared with iron-and-folic acid supplementation on Hb and micronutrient status of non-anaemic adolescent schoolgirls in rural Bangladesh. British Journal of Nutrition 108, 1484–1493. https://doi.org/10.1017/S0007114511006908

Ahmed Tahmeed, Islam Munirul, Choudhury Nuzhat, Hossain Iqbal, Huq Sayeeda, Mahfuz Mustafa, Sarker Shafiqul Alam, 2017. Results with Complementary Food Using Local Food Ingredients. Nestle Nutrition Institute workshop series 87, 103–113. https://doi.org/10.1159/000448960

Aidam Bridget A, Perez-Escamilla Rafael, Lartey Anna, 2005. Lactation counseling increases exclusive breast-feeding rates in Ghana. Journal of nutrition 135, 1691–5. https://doi.org/10.1093/jn/135.7.1691

Ainembabazi J H, Omotilewa O J, Ricker-Gilbert J, 2019. Subsidies for Agricultural Technology Adoption: Evidence from a Randomized Experiment with Improved Grain Storage Bags in Uganda. American Journal of Agricultural Economics 101, 753–772. https://doi.org/10.1093/ajae/aay108

Akalu Girma, Taffesse Samson, Gunaratna Nilupa S, De Groote Hugo, 2010. The effectiveness of quality protein maize in improving the nutritional status of young children in the Ethiopian highlands. Food and nutrition bulletin 31, 418–30. https://doi.org/10.1177/156482651003100304

Aker J C, 2017. Comparing Cash and Voucher Transfers in a Humanitarian Context: Evidence from the Democratic Republic of Congo. World Bank Economic Review 31, 44–70. https://doi.org/10.1093/wber/lhv055

Aker Jenny C, Ksoll Christopher, 2016. Can Mobile Phones Improve Agricultural Outcomes? Evidence from a Randomized Experiment in Niger. Food Policy 60, 44–51. https://doi.org/10.1016/j.foodpol.2015.03.006

Akeredolu I A, Osisanya J O, Okafor J C, Seriki-Mosadolorun J, 2014. Pregnancy outcomes of women in Lagos state: is nutrition education responsible? Pakistan Journal of Nutrition 13, 7–11. https://doi.org/10.3923/pjn.2014.7.11

Akoyi Kevin Teopista, Maertens Miet, 2018. Walk the Talk: Private Sustainability Standards in the Ugandan Coffee Sector. Journal of Development Studies 54, 1792–1818. https://doi.org/10.1080/00220388.2017.1327663

Aksu Hilmye, Küçük Mert, Düzgün Gulergun, 2011. The effect of postnatal breastfeeding education/support offered at home 3 days after delivery on breastfeeding duration and knowledge: a randomized trial. Journal of maternal-fetal & neonatal medicine 24, 354-361. https://doi.org/10.3109/14767058.2010.497569

Akter S M, Roy S K, Thakur S K, Sultana M, Khatun W, Rahman R, Saliheen S S, Alam N, 2012. Effects Of Third Trimester Counseling On Pregnancy Weight Gain, Birthweight, And Breastfeeding Among Urban Poor Women In Bangladesh. Food and Nutrition Bulletin 33, 194–201.

Aku A, Mshenga P, Afari-Sefa V, Ochieng J, 2018. Effect of market access provided by farmer organizations on smallholder vegetable farmer's income in Tanzania. Cogent Food & Agriculture 4, 1560596–1560596. https://doi.org/10.1080/23311932.2018.1560596

Akuamoah-Boateng L, Iyer S S, Sales R L, Lokko P, Lartey A, Monteiro J B R, Mattes R D, 2007. Effect of peanut oil consumption on energy balance. Journal of Applied Research 7, 185–195.

Alaofe H, Burney J, Naylor R, Douglas T, 2019. The impact of solar market gardens on dietary diversity, women's nutritional status and components of women's empowerment in the kalalé district of Norther Benin. Public Health Nutrition. https://doi.org/10.1017/S1368980019001599

Alarcon Karl, Kolsteren Patrick W, Prada Ana M, Chian Ana M, Velarde Ruth E, Pecho Iris L, Hoeree Tom F, 2004. Effects of separate delivery of zinc or zinc and vitamin A on hemoglobin response, growth, and diarrhea in young Peruvian children receiving iron therapy for anemia. American Journal of Clinical Nutrition 80, 1276–1282. https://doi.org/10.1093/ajcn/80.5.1276

Alarcon Pedro A, Lin Lung-Huang, Noche Miguel Jr, Hernandez Virginia C, Cimafranca Leonard, Lam Wayne, Comer Gail M, 2003. Effect of oral supplementation on catch-up growth in picky eaters. Clinical Pediatrics 42, 209–217. https://doi.org/10.1177/000992280304200304

Alawode O O, Oluwatayo I B, 2019. Development outcomes of Fadama III among fish farmers in Nigeria: Evidence from Lagos State. Evaluation and Program Planning 75, 10–19. https://doi.org/10.1016/j.evalprogplan.2019.02.004

Albernaz E, Victora C G, Haisma H, Wright A, Coward W A, 2003. Lactation counseling increases breast-feeding duration but not breast milk intake as measured by isotopic methods. Journal of Nutrition 133, 205–210.

Aldana-Parra F, Olaya G, Fewtrell M, 2020. Effectiveness of a new approach for exclusive breastfeeding counselling on breastfeeding prevalence, infant growth velocity and postpartum weight loss in overweight or obese women: protocol for a randomized controlled trial. International Breastfeeding Journal 15, 1–14. https://doi.org/10.1186/s13006-019-0249-2

Alderman H, 2007. Improving Nutrition through Community Growth Promotion: Longitudinal Study of the Nutrition and Early Child Development Program in Uganda. World Development 35, 1376–1389. https://doi.org/10.1016/j.worlddev.2007.04.003

Alderman H, Hawkesworth S, Lundberg M, Tasneem A, Mark H, Moore S E, 2014. Supplemental feeding during pregnancy compared with maternal supplementation during lactation does not affect schooling and cognitive development through late adolescence. American Journal of Clinical Nutrition 99, 122–129. https://doi.org/10.3945/ajcn.113.063404

Alderman Harold, Ndiaye Biram, Linnemayr Sebastian, Ka Abdoulaye, Rokx Claudia, Dieng Khadidiatou, Mulder-Sibanda Menno, 2009. Effectiveness of a community-based intervention to improve nutrition in young children in Senegal: a difference in difference analysis. Public Health Nutrition 12, 667–673. https://doi.org/10.1017/S1368980008002619

Alem Yonas, Broussard Nzinga H, 2016. The impact of safety nets on technology adoption: a difference-in-differences analysis. Environment for Development Discussion Paper - Resources for the Future (RFF).

Alemu Abebe Ejigu, Adesina Jimi, 2015. Effects of cooperatives and contracts on rural income and production in the dairy supply chains: Evidence from Northern Ethiopia. African Journal of Agricultural and Resource Economics 10, 312–327.

Alemu Fikralem, Mecha Medhanit, Medhin Girmay, 2019. Impact of permagarden intervention on improving fruit and vegetable intake among vulnerable groups in an urban setting of Ethiopia: A quasi-experimental study. PloS one 14(12), e0213705. https://doi.org/10.1371/journal.pone.0213705

Ali A, Rahut D B, Imtiaz M, 2019. Affordability linked with subsidy: Impact of fertilizers subsidy on household welfare in Pakistan. Sustainability (Switzerland) 11. https://doi.org/10.3390/su11195161

Ali Akhter, Abdulai Awudu, 2010. The Adoption of Genetically Modified Cotton and Poverty Reduction in Pakistan. Journal of Agricultural Economics 61, 175–92. https://doi.org/10.1111/j.1477-9552.2009.00227.x

Ali Akhter, Hussain Imtiaz, Rahut Dil Bahadur, Erenstein Olaf, 2018. Laser-land leveling adoption and its impact on water use, crop yields and household income: Empirical evidence from the rice-wheat system of Pakistan Punjab. Food Policy 77, 19–32. https://doi.org/10.1016/j.foodpol.2018.03.018

Ali Akhter, Rahut Dil Bahadur, 2013. Impact Of Agricultural Extension Services On Technology Adoption And Crops Yield: Empirical Evidence From Pakistan. Asian Journal of Agriculture and Rural Development 3, 801–812. https://doi.org/10.22004/ag.econ.198306

Ali D, Bowen D, Carranza E, Deininger K, Goldstein M, Kirk A, Koroknay-Palicz T, 2015. The Impact of Contractual Partnerships on Small-Scale Rice Growers in Ghana. New Haven.

Ali Daniel Ayalew, Deininger Klaus, Goldstein Markus, 2014. Environmental And Gender Impacts Of Land Tenure Regularization In Africa: Pilot Evidence From Rwanda. Journal of Development Economics 110, 262–275. https://doi.org/10.1016/j.jdeveco.2013.12.009

Ali Daniel, Deininger Klaus, Goldstein Marcus, La Ferrara Eliana, 2015. Empowering Women through Land Tenure Regularization: Evidence from the Impact Evaluation of the National Program in Rwanda. World Bank.

Alia D Y, Diagne A, Adegbola P, Kinkingninhoun F, 2018. Distributional Impact of Agricultural Technology Adoption on Rice Farmers' Expenditure: The Case of Nigeria in Benin. Journal of African Development 20, 97–109. https://doi.org/10.5325/jafrideve.20.2.0091

Alizadeh Leila, Salehi Leili, 2016. Is routine iron supplementation necessary in pregnant women with high hemoglobin? Iranian Red Crescent Medical Journal 18. https://doi.org/10.5812/ircmj.22761

Allen L H, Rosado J L, Casterline J E, López P, Muñoz E, García O P, Martinez H, 2000. Lack of hemoglobin response to iron supplementation in anemic Mexican preschoolers with multiple micronutrient deficiencies. American Society for Clinical Nutrition 71, 1485–94. https://doi.org/10.1093/ajcn/71.6.1485

Al-Mamari A, Al-Hegami M A, Al-Hag S, Al-Buryhi M, Al-Amawi S, Ahmed L, Al-Awadi L, Al-Jamal S, Mohammad W, Mohammad Y, 2014. Prevalence of iron deficiency and iron deficiency anemia in infants and children and treatment with microencapsulated iron II fumarate and supplied ascorbic acid as "Sprinkles". Pharmacology and Pharmacy 5, 716–724. https://doi.org/10.4236/pp.2014.57081

Almeida C A. N. de, Dutra-de-Oliveira J E, Crott G C, Cantolini A, Ricco R G, Ciampo L A. del, Baptista M E. C, 2005. Effect of fortification of drinking water with iron plus ascorbic acid or with ascorbic acid alone on hemoglobin values and anthropometric indicators in preschool children in day-care centers in Southeast Brazil. Food and Nutrition Bulletin 26, 259–265. https://doi.org/10.3390/su11195161

Al-Mekhlafi H M, Al-Zabedi E M, Al-Maktari M T, Atroosh W M, Al-Delaimy A K, Moktar N, Norhayati M, Sallam A A, Abdullah W A, Jani R, Surin J, 2014. Effects of vitamin A supplementation on iron status indices and iron deficiency anaemia: a randomized controlled trial. Nutrients 6, 190–206. https://doi.org/10.3390/nu6010190

Aloyce Grace Mselle, Gabagambi Damian M, Hella Joseph Phillip, 2014. National Agricultural Input Voucher Scheme Impact On Productivity And Food Security Of Smallholder Farmers In Tanzania. Journal of Economics and Sustainable Development 5, 32–43.

Al-Sharafat Ali, Altarawneh Mohammad, Altahat Ebraheem, 2012. Effectiveness of agricultural extension activities. American Journal of Agricultural and Biological Sciences 7, 194–200.

Amalrajan V, Thankachan P, Selvam S, Kurpad A, 2012. Effect of wheat flour fortified with sodium iron EDTA on urinary zinc excretion in school-aged children. Food & Nutrition Bulletin 33, 177–179.

Amani Reza, Soflaei Maryam, 2006. Nutrition education alone improves dietary practices but not hematologic indices of adolescent girls in Iran. Handbook of Environmental Chemistry, Volume 5: Water Pollution 27, 260–264. https://doi.org/10.1177/156482650602700309

Amankwah Akuffo, 2016. Subsidies, Aquaculture Technology Adoption, and Welfare Impacts on Ghana and Kenya.

Amankwah Akuffo, Quagrainie Kwamena K, 2018. Aquaculture feed technology adoption and smallholder household welfare in Ghana. Journal of the World Aquaculture Society 50, 827–841. https://doi.org/10.1111/jwas.12544

Amarante V, Manacorda M, Miguel E, Vigorito A, 2011. Social Assistance and Birth Outcomes: Evidence from the Uruguayan PANES. Inter-American Development Bank. https://doi.org/10.2139/ssrn.1858039

Amare M, Asfaw S, 2012. Poverty reduction impact of food aid in rural Ethiopia. Journal of Development Effectiveness 4, 235–256. https://doi.org/10.1080/19439342.2012.674966

Ambler Kate, de Brauw Alan, Godlonton Susan, 2017. Cash transfers and management advice for agriculture: Evidence from Senegal IFPRI Discussion Paper 01659.

Aminisani N, Ehdaivand F, Shamshirgaran S M, Mohajery M, Pourfarzi F, Ahari S, 2009. Zinc Supplementation during Pregnancy: A Randomized Controlled Trial. Iranian Journal of Pharmacology and Therapeutics 8.

Amiri Parisa, Hamzavi Zarghani Najmeh, Nazeri Pantea, Ghofranipour Fazlollah, Karimi Mehrdad, Amouzegar Atieh, Mirmiran Parvin, Azizi Fereidoun, 2017. Can an Educational Intervention Improve Iodine Nutrition Status in Pregnant Women? A Randomized Controlled Trial. Thyroid 27, 418-425. https://doi.org/10.1089/thy.2016.0185

Amirrood M M, Taghdisi M H, Shidfar F, Gohari M R, 2014. The impact of training on women's capabilities in modifying their obesity-related dietary behaviors: applying family-centered empowerment model. Journal of Research in Health Sciences 14, 76–81.

Amy Girard, 2018. Evaluation of Orange Fleshed Sweet Potato Promotion and the Healthy Baby Toolkit in Southern Ethiopia: a Cluster Randomized Controlled Trial. https://clinicaltrials.gov/show/NCT03423472.

An Ruopeng, 2013. Eating better for less: Effectiveness of financial incentives in modifying dietary and grocery shopping behavior. US, US.

Anand K, Lakshmy R, Janakarajan V N, Ritvik A, Misra P, Pandey R M, Kapoor S K, Sankar R, 2007. Effect of consumption of micronutrient fortified candies on the iron and vitamin A status of children aged 3-6 years in rural Haryana. Indian Pediatrics 44.

Anand Paul, Saxena Swati, Gonzalez Rolando, Dang Hai-Anh H, 2019. Can women's self-help groups contribute to sustainable development? Evidence of capability changes from Northern India. Policy Research Working Paper - World Bank 9011.

Andang'o P E, Osendarp S J, Ayah R, West C E, Mwaniki D L, De Wolf C A, Kraaijenhagen R, Kok F J, Verhoef H, 2007. Efficacy of iron-fortified whole maize flour on iron status of schoolchildren in Kenya: a randomised controlled trial. Lancet 369, 1799–1806.

Andersen A B, Schmidt L K, Faurholt-Jepsen D, Roos N, Friis H, Kongsbak K, Wahed M A, Thilsted S H, 2016. The effect of daily consumption of the small fish Amblypharyngodon mola or added vitamin A on iron status: a randomised controlled trial among Bangladeshi children with marginal vitamin A status. Asia Pacific Journal of Clinical Nutrition 25, 464–471.

Andersson M, Thankachan P, Muthayya S, Goud R B, Kurpad A V, Hurrell R F, Zimmermann M B, 2008. Dual fortification of salt with iodine and iron: a randomized, double-blind, controlled trial of micronized ferric pyrophosphate and encapsulated ferrous fumarate in southern India. American journal of clinical nutrition 88, 1378–1387.

Andrew A, Attanasioa O, Fitzsimonsa E, Rubio-Codina M, 2016. Why is multiple micronutrient powder ineffective at reducing anaemia among 12–24 month olds in Colombia? Evidence from a randomised controlled trial. SSM - Population Health 2, 95–104. https://doi.org/10.1016/j.ssmph.2016.02.004

Andrew Anna, 2010. Effect of moringa oleifera leaf powder supplement to improve nutritional status of severely malnourished children aged 6-24 months in Arusha region.

Anetor Gloria O, Ogundele B O, Oyewole O E, 2012. Effect of nutrition education on knowledge of nutrition in relation to prevention of stomach cancer among undergraduates in south-west, Nigeria. African Journal of Food, Agriculture, Nutrition and Development 12, 7035–7054.

Angeles-Agdeppa I, Capanzana M V, Li-Yu J, Schollum L M, Kruger M C, 2010. High-calcium milk prevents overweight and obesity among postmenopausal women. Food and nutrition bulletin 31, 381-390. https://doi.org/10.1177/156482651003100301

Angeles-Agdeppa Imelda, Monville-Oro Emilita, Gonsalves Julian F, Capanzana Mario V, 2019. Integrated school based nutrition programme improved the knowledge of mother and schoolchildren. Maternal & child nutrition 15 Suppl 3, e12794. https://doi.org/10.1111/mcn.12794

Angelucci M, De Giorgi G, 2006. Indirect Effects Of An Aid Program: The Case Of Progresa And Consumption. Institute of Labor Economics (IZA) Discussion Paper 1955, 1–47.

Anguko A, 2015. Livelihoods in Somalia: Impact evaluation of community driven livelihood and food security initiatives in Lower and Middle Juba Regions. https://doi.org/10.21201/2015.582766

Angulo-Barroso R M, Li M, Santos D C C, Bian Y, Sturza J, Jiang Y, Kaciroti N, Richards B, Lozoff B, 2016. Iron supplementation in pregnancy or infancy and motor development: a randomized controlled trial. Pediatrics 137, e20153547. https://doi.org/10.1542/peds.2015-3547

Anirban Mukherjee, Premlata Singh, Shantanu Rakshit, Satya Priya, Burman R R, Kumari Shubha, Kanchan Sinha, Vinayak Nikam, 2019. Effectiveness of poultry based Farmers' Producer Organization and its impact on livelihood enhancement of rural women. Indian Journal of Animal Sciences 89, 1152–1160.

Anitha S, Kane-Potaka J, Tsusaka T W, Tripathi D, Upadhyay S, Kavishwar A, Jalagam A, Sharma N, Nedumaran S, 2019. Acceptance and Impact of Millet-Based Mid-Day Meal on the Nutritional Status of Adolescent School Going Children in a Peri Urban Region of Karnataka State in India. Nutrients 11. https://doi.org/10.3390/nu11092077

Anjini Kochar, 2005. Can Targeted Food Programs Improve Nutrition? An Empirical Analysis Of India's Public Distribution System. Economic Development and Cultural Change 54, 203–235. https://doi.org/10.1086/431260

Anjomshoa H, Mirzai M, Iranpour A, 2018. The application of social cognitive theory on mothers' feeding practices for children aged 6 to 24 months old in Iran. International Journal of Pediatrics 6, 7983–7997. https://doi.org/10.22038/IJP.2018.28326.2459

Anorve-Valdez Gabriela, Quezada-Sanchez Amado David, Mejia-Rodriguez Fabiola, Garcia-Guerra Armando, Neufeld Lynnette Marie, 2018. Fortified food supplementation in children with reduced dietary energy and micronutrients intake in Southern Mexico. Nutrition journal 17, 76. https://doi.org/10.1186/s12937-018-0385-3

Ansari S, Abedi P, Hasanpoor S, Bani S, 2014. The Effect of Interventional Program on Breastfeeding Self-Efficacy and Duration of Exclusive Breastfeeding in Pregnant Women in Ahvaz, Iran. International scholarly research notices 2014, 510793. https://doi.org/10.1155/2014/510793

Antwi Gifty, 2015. The effect of an enhanced antenatal care package for the control of malaria and anaemia in pregnancy in Ghana.

Anzano C G, Alvarez J T B, 2016. Impact Evaluation of the Agricultural Insurance Program of the Philippine Crop Insurance Corporation on Agricultural Producers in Central Visayas 63.

Ara G, Khanam M, Rahman A S, Islam Z, Farhad S, Sanin K I, Khan S S, Rahman M M, Majoor H, Ahmed T, 2019a. Effectiveness of micronutrient-fortified rice consumption on anaemia and zinc status among vulnerable women in Bangladesh. PLoS ONE 14, 1–16. https://doi.org/10.1371/journal.pone.0210501

Ara G, Sanin K I, Khanam M, Sarker S A, Khan S S, Mahfuza Rifat, Chowdhury I A, Askari S, Afsana K, Ahmed T, 2019b. Study protocol to assess the impact of an integrated nutrition intervention on the growth and development of children under two in rural Bangladesh. BMC Public Health 19. https://doi.org/10.1186/s12889-019-7777-y

Araban M, Baharzadeh Khadije, Karimy Mahmood, 2017. Nutrition modification aimed at enhancing dietary iron and folic acid intake: An application of health belief model in practice. European Journal of Public Health 27, 287–292. https://doi.org/10.1093/eurpub/ckw238

Araban M, Karimian Z, Kakolaki Z K, McQueen K A, Dennis C, 2018. Randomized Controlled Trial of a Prenatal Breastfeeding Self-Efficacy Intervention in Primiparous Women in Iran. Journal of obstetric, gynecologic, and neonatal nursing : JOGNN 47, 173–183. https://doi.org/10.1016/j.jogn.2018.01.005

Aramburu Julián, Figal Garone Lucas, Maffioli Alessandro, Salazar Lina, López Cesar Augusto, 2019. Direct and spillover effects of agricultural technology adoption programs: experimental evidence from the Dominican

Republic. IDB Working Paper Series - Inter-American Development Bank. https://doi.org/10.18235/0001742
Aramburu Julián, Flores Mario González, Salazar Lina, Winters Paul, 2014. When A Short-Term Analysis Is Not A Short-Term Approach: Impacts Of Agricultural Technology Adoption In Bolivia, Inter-American Development Bank (IDB) Working Paper Series. Inter-American Development Bank (IDB), Completed.
Arcand Jean-Louis, Wagner Natascha, 2016. Does Community-Driven Development Improve Inclusiveness In Peasant Organizations? - Evidence From Senegal. World Development 78, 105–124. https://doi.org/10.1016/j.worlddev.2015.10.016
Arcanjo F P N, da Costa Rocha T C, Arcanjo C P C, Santos P R, 2019. Micronutrient Fortification at Child-Care Centers Reduces Anemia in Young Children. Journal of Dietary Supplements 16, 689–698. https://doi.org/10.1080/19390211.2018.1474987
Arcanjo F P N, Macêdo D R R, Santos P R, Arcanjo C P C, 2018. Iron Pots for the Prevention and Treatment of Anemia in Preschoolers. Indian Journal of Pediatrics 85, 625–631. https://doi.org/10.1007/s12098-017-2604-x
Arcanjo F P N, Santos P R, Arcanjo C P C, Amancio O M S, Braga J A P, 2012. Use of iron-fortified rice reduces anemia in infants. Journal of tropical pediatrics 58, 475-480. https://doi.org/10.1093/tropej/fms021
Arcanjo F P N, Santos P R, Arcanjo C P C, Magalhaes S M M, Leite A J M, 2013. Daily and weekly iron supplementations are effective in increasing hemoglobin and reducing anemia in infants. Journal of Tropical Pediatrics 59, 175–179. https://doi.org/10.1093/tropej/fms071
Arcanjo Francisco P, Pinto Vincente P, Arcanjo Maria R, Amici Marcia R, Amâncio Olga M, 2009. Effect of a beverage fortified with evaporated sugarcane juice on hemoglobin levels in preschool children. Revista panamericana de salud publica [Pan American journal of public health] 26, 350-354. https://doi.org/10.1590/s1020-49892009001000010
Arcanjo Francisco Plácido Nogueira, Amancio Olga Maria Silverio, Braga Josefina Aparecida Pellegrini, Pinto Vicente de Paula Teixeira, 2010. Randomized controlled trial of iron-fortified drinking water in preschool children. Journal of the American College of Nutrition 29, 122–129. https://doi.org/10.1080/07315724.2010.10719825
Arcanjo Francisco Placido Nogueira, Arcanjo Cecılia Costa, Amancio Olga Maria Silverio, Braga Josefina Aparecida Pellegrini, Leite Alvaro Jorge Madeiro, 2011. Weekly iron supplementation for the prevention of anemia in pre-school children: a randomized, double-blind, placebo-controlled trial. Journal of Tropical Pediatrics 57, 433–438. https://doi.org/10.1093/tropej/fmq119
Ardic A, Erdogan S, 2019. The effectiveness of the COPE healthy lifestyles TEEN program in overweight and obese adolescents: randomized controlled study. Journal of Advanced Nursing 12, 113-114. https://doi.org/10.1159/000489691
Argaw A, Huybregts L, Wondafrash M, Kolsteren P, Belachew T, Worku B N, Abessa T G, Bouckaert K P, 2019. Neither n-3 Long-Chain PUFA Supplementation of Mothers through Lactation nor of Offspring in a Complementary Food Affects Child Overall or Social-Emotional Development: A 2 x 2 Factorial Randomized Controlled Trial in Rural Ethiopia. The Journal of nutrition 149, 505–512. https://doi.org/10.1093/jn/nxy202
Arimoto Y, Kono H, Ralandison T, Sakurai T, Takahashi K, 2019. Price and Nonprice Information Frictions in Regional Arbitrage: The Case of Rice Traders in Antananarivo, Madagascar. Economic Development and Cultural Change 67, 273–313. https://doi.org/10.1086/698163
Armecin Graeme, Behrman Jere R, Duaz Paulita, Ghuman Sharon, Gultiano Socorro, King Elizabeth M, Lee Nanette, 2006. Early Childhood Development Through An Integrated Program: Evidence From The Philippines. World Bank Policy Research Working Paper 3922, 1–37.
Armendariz-Anguiano A L, Jimenez-Cruz A, Bacardi-Gascon M, Hurtado-Ayala L, 2011. Effect of a low glycemic load on body composition and Homeostasis Model Assessment (HOMA) in overweight and obese subjects. Nutricion hospitalaria 26, 170–5. https://doi.org/10.3305/nh.2011.26.1.4620
Armitage C J, 2014. Evidence that self-incentives increase fruit consumption: a randomized exploratory trial among high-risk Romanian adolescents. Prevention Science 15, 186–193. https://doi.org/10.1007/s11121-012-0346-6
Arouna Aminou, Michler Jeffrey D, Lokossou Jourdain C, 2019. Contract Farming and Rural Transformation: Evidence from a Field Experiment in Benin. National Bureau of Economic Research, Inc, NBER Working Papers. https://doi.org/10.3386/w25665
Arráiz Irani, Calero Carla, Jin Songqing, Peralta Alexandra, 2015. Planting The Seeds: The Impact Of Training On Mango Producers In Haiti. Inter-American Development Bank (IDB) Working Paper Series IDB-WP-610, 1–34.
Arsenault Joanne E, Romaña Daniel Lopez de, Penny Mary E, Loan Marta D. Van, Brown Kenneth H, 2008. Additional zinc delivered in a liquid supplement, but not in a fortified porridge, increased fat-free mass accrual among young Peruvian children with mild-to-moderate stunting. Journal of Nutrition 138, 108–114. https://doi.org/10.1093/jn/138.1.108
Asadullah M Niaz, Ara Jinnat, 2016. Evaluating the long-run impact of an innovative anti-poverty programme: evidence using household panel data. Applie Economics 48, 107–120. https://doi.org/10.1080/00036846.2015.1073846
Asante B O, Wiredu A N, Martey E, Sarpong D B, Mensah-Bonsu A, 2014. NERICA adoption and impacts on technical efficiency of rice producing households in Ghana: implications for research and development. American Journal of Experimental Agriculture 4, 244–262.

Asemi Z, Samimi M, Siavashani M A, Mazloomi M, Tabassi Z, Karamali M, Jamilian M, 2016. Calcium-Vitamin D Co-supplementation Affects Metabolic Profiles, but not Pregnancy Outcomes, in Healthy Pregnant Women. International Journal of Preventive Medicine 7:49. https://doi.org/10.4103/2008-7802.177895

Asfaw Solomon, Mithofer Dagmar, Waibel Hermann, 2008. EU private agrifood standards in African high-value crops: pesticide use and farm-level productivity. https://doi.org/10.22004/ag.econ.44145

Ash D M, Tatala S R, Frongillo E A, Ndossi G D, Latham M C, 2003. Randomized efficacy trial of a micronutrient-fortified beverage in primary school children in Tanzania. American Journal of Clinical Nutrition 77, 891–898.

Ashorn Per, Alho Lotta, Ashorn Ulla, Yin Bun, Cheung, Dewey Kathryn G, Harjunmaa Ulla, Lartey Anna, Nkhoma Minyanga, Phiri Nozgechi, Phuka John, Vosti Stephen A, Zeilani Mamane, Maleta Kenneth, 2015. The impact of lipid-based nutrient supplement provision to pregnant women on newborn size in rural Malawi: a randomized controlled trial. American Journal of Clinical Nutrition 101, 387–397. https://doi.org/10.3945/ajcn.114.088617

Ashorn Ulla, Alho Lotta, Arimond Mary, Dewey Kathryn G, Maleta Kenneth, Phiri Nozgechi, Phuka John, Vosti Stephen A, Zeilani Mamane, Ashorn Per, 2015. Malawian mothers consider lipid-based nutrient supplements acceptable for children throughout a 1-year intervention, but deviation from user recommendations is common. Journal of Nutrition 145, 1588–1595. https://doi.org/10.3945/jn.114.209593

Ashraf Ejaz, Shurjeel Hafiz Khurram, Iqbal Mujahid, 2018. Creating Awareness Among Farmers for the Use of Mobile Phone Cellular Technology for Dissemination of Information Regarding Aphid (Macrosiphum Miscanthi, Hemiptera, Aphididae) Attack on Wheat Crop. Sarhad Journal of Agriculture 34, 724–728. https://doi.org/10.17582/journal.sja/2018/34.4.724.728

Ashtarian H, Marzbani B, Almasi A, Marzbani B, Khezeli M, Shahabadi S, 2018. The effect of educational intervention based on the theory of planned behaviour on consumption of iron supplement in high school girls. Journal of Evolution of Medical and Dental Sciences 7, 4291–4298. https://doi.org/10.14260/jemds/2018/957

Asibey-Berko E, Zlotkin S H, Yeung G S, Nti-Nimako W, Ahunu B, Kyei-Faried S, Johnston J L, Tondeur M C, Mannar V, 2007. Dual fortification of salt with iron and iodine in women and children in rural Ghana. East African medical journal 84, 473-480. https://doi.org/10.4314/eamj.v84i10.9565

Asres Elias, Makoto Nohmi, Kumi Yasunobu, Akira Ishida, Arega D Alene, 2014. THE EFFECT OF AGRICULTURAL EXTENSION SERVICE ON THE TECHNICAL EFFICIENCY OF TEFF (ERAGROSTISTEF) PRODUCERS IN ETHIOPIA. American Journal of Applied Sciences 11, 223–239. https://doi.org/10.3844/ajassp.2014.223.239

Assefa T, Jha M, Reyes M, Schimmel K, Tilahun S, 2017. Commercial home gardens under conservation agriculture and drip irrigation for small holder farming in sub-Saharan Africa. Presented at the 2017 ASABE Annual International Meeting. https://doi.org/10.13031/aim.201701522

Assima Amidou, Smale Melinda, Kergna Alpha, 2016. Impacts of improved sorghum varieties on farm families in Mali: A Multivalued Treatment Effects approach. https://doi.org/10.22004/ag.econ.246962

Assunçãoa Maria Cecília F, Gigantea Denise P, Cardosob Marly A, Sartorellic Daniela S, Santos Ina S, 2010. Randomized, Controlled Trial Promotes Physical Activity And Reduces Consumption Of Sweets And Sodium Among Overweight And Obese Adults. Nutrition Research 30, 541–549. https://doi.org/10.1016/j.nutres.2010.07.006

Atashak Sirvan, Peeri Maghsoud, Azarbayjani Mohammad Ali, Stannard Stephen Robert, Haghighi Marjan Mosalman, 2011. Obesity-related cardiovascular risk factors after long-term resistance training and ginger supplementation. Journal of Sports Science and Medicine 10, 685–691.

Atozou Baoubadi, Lawin Kotchikpa Gabriel, Niang Diombare, 2017. Impact of weather index insurance on groundnut farmers' technical efficient in Senegal: a propensity score matching approach. Journal of Sustainable Development 10, 131–142. https://doi.org/10.5539/jsd.v10n5p131

Attanasio O P, Betham J, Fernandez C, Fitzsimons E O A, Grantham-McGregor S M, Meghir C, Rubio-Codina M, 2014. Using the infrastructure of a conditional cash transfer program to deliver a scalable integrated early child development program in Colombia: Cluster randomized controlled trial. British Medical Journal 349.

Attanasio Orazio, Baker-Henningham Helen, Bernal Raquel, Meghir Costas, Pineda Diana, Rubio-Codina Marta, 2018. Early Stimulation and Nutrition: the impacts of a scalable intervention (No. w25059). National Bureau of Economic Research 48.

Attanasio Orazio, Gómez Luis Carlos, Heredia Patricia, Vera-Hernández Marcos, 2005. The short-term impact of a conditional cash subsidy on child health and nutrition in Colombia. Institute for fiscal studies.

Attanasio Orazio, Meghir Costas, Baker-Henningham Helen, Bernal Raquel, Pineda Diana, Rubio-Codina Marta, 2016. Improving Guidelines for an Early Childhood Development Program in Rural Colombia.

Attanasio Orazio P, Vera-Hernández Marcos, 2004. Medium and Long Run Effects of Nutrition and Child Care: Evaluation of a Community Nursery Programme in Rural Colombia.

Attavanich W, 2016. Did the Thai Rice-Pledging Programme Improve the Economic Performance and Viability of Rice Farming? Applied Economics 48, 2253–65. https://doi.org/10.1080/00036846.2015.1117049

Audu V I, Aye G C, 2014. The effects of improved maize technology on household welfare in Buruku, Benue State, Nigeria. Cogent Economics and Finance 2. https://doi.org/10.1080/23322039.2014.960592

Aung Nilar, Nguyen Hoa-Thi-Minh, Sparrow Robert, 2019. The Impact of Credit Policy on Rice Production in Myanmar. Journal of Agricultural Economics 70, 426–451. https://doi.org/10.1111/1477-9552.12299

Aurino Elisabetta, Gelli Aulo, Adamba Clement, Osei-Akoto Isaac, Alderman Harold, 2018. Food for thought? Experimental evidence on the learning impacts of a large-scale school feeding program in Ghana. IFPRI - Discussion Papers.

Aurino Elisabetta, Tranchant Jean-Pierre, Diallo Amadou Sekou, Gelli Aulo, 2019. School Feeding or General Food Distribution? Quasi-Experimental Evidence on the Educational Impacts of Emergency Food Assistance during Conflict in Mali. Journal of Development Studies 55, 7–28. https://doi.org/10.1080/00220388.2019.1687874

Avitabile Ciro, Cunha Jesse M, Cohn Ricardo Meilman, 2019. The medium term impacts of cash and in-kind food transfers on learning., Policy Research Working Paper - World Bank. World Bank Group, USA.

Avula Rasmi, Frongillo Edward A, Arabi Mandana, Sharma Sheel, Schultink Werner, 2011. Enhancements to nutrition program in Indian integrated child development services increased growth and energy intake of children. The Journal of nutrition 141, 680–4. https://doi.org/10.3945/jn.109.116954

Awasthi Shally, Reddy Narayan U, Mitra Monjori, Singh Shweta, Ganguly Sanjeev, Jankovic Ivana, Grathwohl Dominik, Cercamondi Colin I, Ghosh Apurba, 2020. Micronutrient-fortified infant cereal improves Hb status and reduces iron-deficiency anaemia in Indian infants: an effectiveness study. British Journal of Nutrition 123, 780–791. https://doi.org/10.1017/S0007114519003386

Awotide B A, Chagomoka T, Sobgui C M, Bihon W, Afari-Sefa V, Tenkouano A, Ndiaye K, Diouf O, 2019. Impact of best practice hubs (BPHs) and vegetable technology immersion cluster (VTICs) on vegetable productivity and welfare of rural farm households in Mali. Acta Horticulturae 1258, 37–46. https://doi.org/10.17660/ActaHortic.2019.1258.6

Awotide Bola Amoke, Awoyemi Taiwo Timothy, Salman Kabir Kayode, Diagne Aliou, 2013. Impact of Seed Voucher System on Income Inequality and Rice Income per Hectare among Rural Households in Nigeria: A Randomized Control Trial (RCT) Approach. Quarterly Journal of International Agriculture 52, 95–117. https://doi.org/10.22004/ag.econ.173642

Awotide Bola Amoke, Diagne Aliou, Omonona B T, 2012. Impact of Improved Agricultural Technology Adoption on Sustainable Rice Productivity and Rural Farmers' Welfare in Nigeria: A Local Average. Presented at the African Economic Conference October 30- November 2, 2012.

Ayah RA, Mwaniki DL, Magnussen P, Tedstone AE, Marshall T, Alusala D, Luoba A, Kaestel P, Michaelsen K F, Friis H, 2007. The effects of maternal and infant vitamin A supplementation on vitamin A status: a randomised trial in Kenya. British Journal of Nutrition 98, 422–430. https://doi.org/10.1017/S0007114507705019

Ayeb N, Addis M, Fiori M, Chniter M, Khorchani T, 2016. Effect of the local forage resource, the "khortane" grass hay, on fatty acid of milk and meat of indigenous goats of southern Tunisia. Options Méditerranéennes. Série A, Séminaires Méditerranéens 537–541.

Ayenew Habtamu Yesigat, 2016. Production Efficiency and Market Orientation in Food Crops in North West Ethiopia: Application of Matching Technique for Impact Assessment. PLoS ONE 11, 1–13. https://doi.org/10.1371/journal.pone.0158454

Azeredo CM, Cotta RM, Sant'Ana LF, et al, 2010. Greater effectiveness of daily iron supplementation scheme in infants. Rev Saúde Pública 44.

Azlaf M, El Hamdouchi A, Benjeddou K, Zahrou F Z, El Menchawy I, El Kari K, El Mzibri M, Belghiti H, Barkat A, Rjimati E A, Haloui N E, Aguenaou H, 2017. School fortified milk improves vitamin a status of rural children in Morocco: a longitudinal interventional and controlled study. Mediterranean journal of nutrition and metabolism 10, 13-27. https://doi.org/10.3233/MNM-16107

B Idindili, H Masanja, H Urassa, W Bunini, P van Jaarsveld, J Aponte, 2007. Randomized controlled safety and efficacy trial of 2 vitamin A supplementation schedules in Tanzanian infants. The American Journal of Clinical Nutrition 85, 1312–19. https://doi.org/10.1093/ajcn/85.5.1312

Bacardi-Gascon M, Perez-Morales M E, Jimenez-Cruz A, 2012. A six month randomized school intervention and an 18-monthfollow-up intervention to prevent childhood obesity in Mexican elementary schools. Nutricion Hospitalaria 27, 755–762.

Bagherniya Mohammad, Sharma Manoj, Darani Firoozeh Mostafavi, Maracy Mohammad Reza, Safarian Mohammad, Birgani Ramesh Allipour, Bitarafan Vida, Keshavarz Seyed Ali, 2017. School-based nutrition education intervention using social cognitive theory for overweight and obese Iranian adolescent girls: A cluster randomized controlled trial. International Quarterly of Community Health Education 38, 37–45. https://doi.org/10.1177/0272684X17749566

Bah A, Muhammad A K, Wegmuller R, Verhoef H, Goheen M M, Sanyang S, Danso E, Sise E A, Pasricha S R, Armitage A E, Drakesmith H, Cross J H, Moore S E, Cerami C, Prentice A M, 2019. Hepcidin-guided screen-and-treat interventions against iron-deficiency anaemia in pregnancy: a randomised controlled trial in The Gambia. Lancet Global Health 7, e1564–e1574. https://doi.org/10.1016/S2214-109X(19)30393-6

Bah Amat, Pasricha Sant-Rayn, Jallow Momodou W, Sise Ebrima A, Wegmuller Rita, Armitage Andrew E, Drakesmith Hal, Moore Sophie E, Prentice Andrew M, 2017. Serum hepcidin concentrations decline during pregnancy and may identify iron deficiency: analysis of a longitudinal pregnancy cohort in The Gambia. Journal of Nutrition 147, 1131–1137. https://doi.org/10.3945/jn.116.245373

Bahl Rajiv, Bhandari Nita, Wahed M A, Kumar G T, Bhan M K, 2002. Vitamin A supplementation of women postpartum and of their infants at immunization alters breast milk retinol and infant vitamin A status. Journal of Nutrition 132, 3243–3248. https://doi.org/10.1093/jn/132.11.3243

Bahta Y, Owusu-Sekyeer E, 2018. Nexus between homestead food garden programme and land ownership in South Africa: Implication on the income of vegetable farmers.

Baiyegunhi L J. S, Majokweni Z P, Ferrer S R. D, 2019. Impact of outsourced agricultural extension program on smallholder farmers' net farm income in Msinga, KwaZulu-Natal, South Africa. Technology in Society 57, 1–7. https://doi.org/10.1016/j.techsoc.2018.11.003

Bajrami E, Wailes E J, Dixon B L, Musliu A, Durand-Morat A, 2019. Do coupled subsidies increase milk productivity, land use, herd size and income? Evidence from Kosovo. Studies in Agricultural Economics (Budapest) 121, 134–143.
Bakary Dibba, Ann Prentice, Mustapha Ceesay, Dorothy M Stirling, Tim J Cole, Elizabeth ME Poskitt, 2000. Effect of calcium supplementation on bone mineral accretion in Gambian children accustomed to a low-calcium diet. American Journal for Clinical Nutrition 71, 544–9. https://doi.org/10.1093/ajcn/71.2.544
Baker Phillip, Friel Sharon, Schram Ashley, Labonte Ron, 2016. Trade and investment liberalization, food systems change and highly processed food consumption: a natural experiment contrasting the soft-drink markets of Peru and Bolivia. Globalization & Health 12, 1–13. https://doi.org/10.1186/s12992-016-0161-0
Bakunzi F R, Serumaga-Zake P A, 2000. The effect of strategic anthelmintic treatment on internal parasites in communally grazed sheep in a semi-arid area as reflected in the faecal nematode egg count. Tropical animal health and production 32, 295–302. https://doi.org/10.1023/a:1005264906954
Balasubramanya S, 2019. Effects of training duration and the role of gender on farm participation in water user associations in Southern Tajikistan: Implications for irrigation management. Agricultural Water Management 216, 1–11. https://doi.org/10.1016/j.agwat.2019.01.019
Balestrin M, 2018. Effect of an intervention program in the implementation of healthy school canteens. Cochrane Central Register of Controlled Trials 2019.
Baliki G, Brück T, Schreinemachers P, Uddin M N, 2019. Long-term behavioural impact of an integrated home garden intervention: evidence from Bangladesh. Food Security 11, 1217–1230.
Baliki G, Bruck T, Stojetz W, 2018. Drivers of Resilience and Food Security in North-east Nigeria: Learning from Micro Data in an Emergency Setting. ISDC, Berlin.
Banchonhattakit Pannee, Tanasugarn Chanuantong, Pradipasen Mandhana, Miner Kathleen R, Nityasuddhi Dechavudh, 2009. Effectiveness of school network for childhood obesity prevention (SNOCOP) in primary schools of Saraburi Province, Thailand. Southeast Asian Journal of Tropical Medicine and Public Health 40, 816–834.
Bandiera Oriana, Burgess Robin, Das Narayan, Gulesci Selim, Rasul Imran, Sulaiman Munshi, 2017. Labor Markets and Poverty in Village Economies. Quarterly Journal of Economics 132, 811–870. https://doi.org/10.1093/q
Bandoni Daniel Henrique, Sarno Flavio, Jaime Patricia Constante, 2011. Impact of an intervention on the availability and consumption of fruits and vegetables in the workplace. Public health nutrition 14, 975–981. https://doi.org/10.1017/S1368980010003460
Banerjee A, Duflo E, Glennerster R, 2011. Is decentralized iron fortification a feasible option to fight anemia among the poorest? NBER Chapters 317–344.
Banerjee Abhijit, Barnhardt Sharon, Duflo Esther, 2018. Can iron-fortified salt control anemia? Evidence from two experiments in rural Bihar. Journal of Development Economics 133, 127–146. https://doi.org/10.1016/j.jdeveco.2017.12.004
Banerjee Abhijit, Barnhardt Sharon, Duflo Esther, 2015. Movies, margins, and marketing: Encouraging the adoption of iron-fortified salt. In Insights in the Economics of Aging. NBER Working Paper 21616, 1–26.
Banerjee Abhijit, Hanna Rema, Kyle Jordan C, Olken Benjamin A, Sumarto Sudarno, 2016. Contracting Out the Last-Mile of Service Delivery: Subsidized Food Distribution in Indonesia. https://doi.org/10.3386/w21837
Bannor Richard Kwasi, Oppong-Kyeremeh Helena, Adjei-Addo Emmanuel, 2017. Improving the Income of Small Scale Rice Producers through Outgrower Scheme in the Volta Region of Ghana. Indian Journal of Economics and Development 13, 584–90. https://doi.org/10.5958/2322-0430.2017.00135.4
Baqui A H, Walker C L F, Zaman K, El-Arifeen S, Chowdhury H R, Wahed M A, Black R E, Caulfield L E, 2005. Weekly iron supplementation does not block increases in serum zinc due to weekly zinc supplementation in Bangladeshi infants. Journal of Nutrition 135, 2187–2191.
Barber S L, Gertler P J, 2010. Empowering women: how Mexico's conditional cash transfer programme raised prenatal care quality and birth weight. Journal of Development Effectiveness 2, 51–73. https://doi.org/10.1080/19439341003592630
Barber S L, Gertler P J, 2008. The impact of Mexico's conditional cash transfer programme, Oportunidades, on birthweight. Tropical Medicine and International Health 13, 1405–1414. https://doi.org/10.1111/j.1365-3156.2008.02157.x
Barbosa T N, Taddei J A, Palma D, Ancona-Lopez F, Braga J A, 2012. Double-blind randomized controlled trial of rolls fortified with microencapsulated iron. Revista da associacao medica brasileira (1992) 58, 118-124.
Barffour M A, Hinnouho G M, Kounnavong S, Wessells K R, Ratsavong K, Bounheuang B, Chanhthavong B, Sitthideth D, Sengnam K, Arnold C D, Brown K H, Hess S Y, 2019. Effects of daily zinc, daily multiple micronutrient powder, or therapeutic zinc supplementation for diarrhea prevention on physical growth, anemia, and micronutrient status in rural Laotian children: a randomized controlled trial. Journal of Pediatrics 207, 80-e2. https://doi.org/10.1016/j.jpeds.2018.11.022
Barth-Jaeggi T, Moretti D, Kvalsvig J, Holding P A, Njenga J, Mwangi A, Chhagan M K, Lacroix C, Zimmermann M B, 2015. In-home fortification with 2.5 mg iron as NaFeEDTA does not reduce anaemia but increases weight gain: a randomised controlled trial in Kenyan infants. Maternal & child nutrition 11, 151–162.
Bashirian S, Allahverdipour H, Moeini B, 2008. Fruit and vegetable intakes among elementary schools' pupils: using five-a-day educational program. Journal of Research in Health Sciences 8, 56–63.
Başkale Hatice, Bahar Zuhal, 2011. Outcomes of nutrition knowledge and healthy food choices in 5- to 6-year-old children who received a nutrition intervention based on Piaget's theory. Journal of the Society of Pediatric Nurses, Maternal-Child Nursing Journal 16, 263–279. https://doi.org/10.1111/j.1744-6155.2011.00300.x
Basu Karna, Wong Maisy, 2015. Evaluating Seasonal Food Storage and Credit Programs in East Indonesia. Journal of Development Economics 115, 200–216. https://doi.org/10.1016/j.jdeveco.2015.02.001

Batis C, Rivera J A, Popkin B M, Taillie L S, 2016. First-Year Evaluation of Mexico's Tax on Nonessential Energy-Dense Foods: An Observational Study. PLoS medicine 13, e1002057. https://doi.org/10.1371/journal.pmed.1002057

Batra Payal, Schlossman Nina, Balan Ionela, Pruzensky William, Balan Adrian, Brown Carrie, Gamache Madeleine G, Schleicher Molly M, de Sa, Augusto Braima, Saltzman Edward, Wood Lauren, Roberts Susan B, 2016. A Randomized Controlled Trial Offering Higher- Compared with Lower-Dairy Second Meals Daily in Preschools in Guinea-Bissau Demonstrates an Attendance-Dependent Increase in Weight Gain for Both Meal Types and an Increase in Mid-Upper Arm Circumference for the Higher-Dairy Meal. The Journal of nutrition 146, 124–32. https://doi.org/10.3945/jn.115.218917

Bauchet J, Morduch J, Ravi S, 2015. Failure vs. Displacement: Why an Innovative Anti-poverty Program Showed No Net Impact in South India. Journal of Development Economics 116, 1–16. https://doi.org/10.1016/j.jdeveco.2015.03.005

Baum A, Elize W, Jean-Louis F, 2017. Microfinance institutions' successful delivery of micronutrient powders: a randomized trial in rural Haiti. Health Affairs 36, 1938–1946. https://doi.org/10.1377/hlthaff.2017.0281

Baum Jamie I, Miller Jefferson D, Gaines Brianna L, 2017. The effect of egg supplementation on growth parameters in children participating in a school feeding program in rural Uganda: a pilot study. Food & Nutrition Research 61, 1–6. https://doi.org/10.1080/16546628.2017.1330097

Baumgartner J, Smuts C M, Aeberli I, Malan L, Tjalsma H, Zimmermann M B, 2013. Overweight impairs efficacy of iron supplementation in iron-deficient South African children: a randomized controlled intervention. International Journal of Obesity 37, 24–30. https://doi.org/10.1038/ijo.2012.145

Bauserman M, Lokangaka A, Gado J, Close K, Wallace D, Kodondi K, Tshefu A, Bose C, 2015. A cluster-randomized trial determining the efficacy of caterpillar cereal as a locally available and sustainable complementary food to prevent stunting and anaemia. Public Health Nutrition 18, 1785–1792. https://doi.org/10.1017/S1368980014003334

Baxter J Ab, Wasan Y, Soofi S B, Suhag Z, Bhutta Z A, 2018. Feasibility and effect of life skills building education and multiple micronutrient supplements versus the standard of care on anemia among non-pregnant adolescent and young Pakistani women (15-24 years): a prospective, population-based cluster-randomized trial. Reproductive health 15. https://doi.org/10.1186/s12978-018-0547-y

Bayiyana Irene, Hepelwa Aloyce, Rao Elizaphan J. O, Mdadila Kenneth, 2018. Do Dairy Market Hubs Improve Smallholder Farmers' Income? The Case of Dairy Farmers in the Tanga and Morogoro Regions of Tanzania. Agricultural Economics Research, Policy and Practice in Southern Africa, Agrekon 57, 121–36. https://doi.org/10.1080/03031853.2018.1481758

Baykan A, Yalcn S S, Yurdakok K, 2006. Does maternal iron supplementation during the lactation period affect iron status of exclusively breast-fed infants? Turkish Journal of Pediatrics 48, 301–307.

Beaman L, BenYishay A, Fatch P, Magruder J, Mobarak AM, 2016. Making Networks Work For Policy: Evidence From Agricultural Technology Adoption In Malawi. 3ie Series Report 43, 1–33.

Beaman Lori, Dillon Andrew, 2018. Diffusion of agricultural information within social networks: Evidence on gender inequalities from Mali. https://doi.org/10.1016/j.jdeveco.2018.01.009

Beaman Lori, Karlan Dean, Thuysbaert Bram, Udry Christopher, 2014. Self-Selection into Credit Markets: Evidence from Agriculture in Mali. National Bureau of Economic Research, Inc, NBER Working Papers.

Beaman Lori, Karlan Dean, Thuysbaert Bram, Udry Christopher, 2013. Profitability of Fertilizer: Experimental Evidence from Female Rice Farmers in Mali pages.

Becerril J, Abdulai A, 2010. The Impact of Improved Maize Varieties on Poverty in Mexico: A Propensity Score-Matching Approach. World Development 38, 1024–1035. https://doi.org/10.1016/j.worlddev.2009.11.017

Becquey E, Ouedraogo C T, Hess S Y, Rouamba N, Prince L, Ouedraogo J B, Vosti S A, Brown K H, 2016. Comparison of preventive and therapeutic zinc supplementation in young children in Burkina Faso: a cluster-randomized, community-based trial. Journal of Nutrition 146, 2058–2066. https://doi.org/10.3945/jn.116.230128

Begg Michael, Santos Paulo, 2010. Livestock Banks and Food Security in Laos.

Begin F, Santizo M C, Peerson J M, Torun B, Brown K H, 2008. Effects of bovine serum concentrate, with or without supplemental micronutrients, on the growth, morbidity, and micronutrient status of young children in a low-income, peri-urban Guatemalan community. European Journal of Clinical Nutrition 62, 39–50. https://doi.org/10.1038/sj.ejcn.1602682

Behrman J R, Calderon M C, Preston S H, Hoddinott J, Martorell R, Stein A D, 2009. Nutritional supplementation in girls influences the growth of their children: prospective study in Guatemala. American Journal of Clinical Nutrition 90, 1372–1379. https://doi.org/10.3945/ajcn.2009.27524

Behrman J R, Hoddinott J, 2001. An evaluation of the impact of PROGRESA on pre-school child height. FCND Discussion Papers.

Behrman Jere R, Hoddinott John, 2005. Programme evaluation with unobserved heterogeneity and selective implementation: the Mexican PROGRESA impact on child nutrition. Oxford Bulletin of Economics and Statistics 67, 547–569. https://doi.org/10.1111/j.1468-0084.2005.00131.x

Beinner M A, Velasquez-Meléndez G, Pessoa M C, Greiner T, 2010. Iron-Fortified Rice Is As Efficacious As Supplemental Iron Drops in Infants and Young Children. Journal of nutrition 140, 49–53. https://doi.org/10.3945/jn.109.112623

Bekele Nigat, Obare Gideon, Mithöfer Dagmar, Amudavi David, 2013. The impact of group based training approaches on crop yield, household income and adoption of pest management practices in the smallholder horticultural subsector of Kenya. Journal of Sustainable Development in Africa 15, 117–140.

Bekker Francette, Marais Maritha, Koen Nelene, 2017. The provision of healthy food in a school tuck shop: does it influence primary-school students' perceptions, attitudes and behaviours towards healthy eating? Public Health Nutrition 20, 1257–1266. https://doi.org/10.1017/S1368980016003487

Belay Sewhareg, Haidar Jemal, 2014. Effect of prenatal education on breastfeeding initiation and exclusive breast feeding rate in selected health institutions of Hawassa city, the capital of Snnpr , Ethiopia. East African Journal of Public Health 11, 622–632.

Beleigoli Alline Maria, de Andrade Andre Queiroz, Diniz Maria de Fátima Haueisen, Alvares Roberta Sonia, Ribeiro Antonio Luiz, 2018. Online platform for healthy weight loss in adults with overweight and obesity - The "pOEmaS" project: A randomized controlled trial. BMC Public Health 18, 1–7. https://doi.org/10.1186/s12889-018-5882-y

Belissa Temesgen, Bulte Erwin, Cecchi Francesco, Gangopadhyay Shubhashis, Lensink Robert, 2019. Liquidity Constraints, Informal Institutions, and the Adoption of Weather Insurance: A Randomized Controlled Trial in Ethiopia. Journal of Development Economics 140, 269–78. https://doi.org/10.1016/j.jdeveco.2019.06.006

Bell C E, French N P, Karimuribo E, Ogden N H, Bryant M J, Swai E M, Kambarage D M, Fitzpatrick J L, 2005. The effects of different knowledge-dissemination interventions on the mastitis knowledge of Tanzanian smallholder dairy farmers. Preventive Veterinary Medicine 72, 237–251. https://doi.org/10.1016/j.prevetmed.2005.05.004

Benin Samuel, 2015. Impact of Ghana's Agricultural Mechanization Services Center Program. Agricultural Economics 46, 103–17. https://doi.org/10.1111/agec.12201

Benjeddou K, Qandoussi L, Mekkaoui B, Rabi B, El Hamdouchi A, Raji F, Saeid N, Belghiti H, Elkari K, Aguenaou H, 2019. Effect of multiple micronutrient fortified milk consumption on vitamin D status among school-aged children in rural region of Morocco. Physiologie appliquee, nutrition et metabolisme [Applied physiology, nutrition, and metabolism] 44, 461-467. https://doi.org/10.1139/apnm-2018-0368

Berber Kramer, 2017. Cooking Contests for Healthier Recipes: Impacts on Nutrition Knowledge and Behaviors in Bangladesh.

Berg Marrit Van Den, Levely Ian, 2019. Does A Multi-Faceted Market-Based Approach To Food Crops Stimulate Food Security And Agricultural Development In Tanzania? 3ie Grantee Final Report Not applicable, Not applicable.

Bergamasco C, Horie L M, Torrinhas R S, Waitzberg D L, 2015. High-fiber orange juice as a nutrition supplement in women: a randomized, double-blind, placebo-controlled study of tolerance and effectiveness. Journal of Parenteral and Enteral Nutrition 39, 941–947. https://doi.org/10.1177/0148607114539703

Berger J, Dyck J L, Galan P, Aplogan A, Schneider D, Traissac P, Hercberg S, 2000. Effect of daily iron supplementation on iron status, cell-mediated immunity, and incidence of infections in 6–36 month old Togolese children. European Journal of Clinical Nutrition 54, 29–35. https://doi.org/10.1038/sj.ejcn.1600888

Berger J, Ninh N X, Khan N C, Nhien N V, Lien D K, Trung N Q, Khoi H H, 2006. Efficacy of combined iron and zinc supplementation on micronutrient status and growth in Vietnamese infants. European Journal of Clinical Nutrition 60, 443–454. https://doi.org/10.1038/sj.ejcn.1602336

Bergquist L, C McIntosh, 2016. Building Market Linkages for Smallholder Farmers in Uganda. Innovations for Poverty Action.

Berhane G, Hoddinott J, Kumar N, Margolies A, 2017. The impact of the Productive Safety Net Programme on schooling, child labour and the nutritional status of children in Ethiopia.

Bernard T, Taffesse A S, Gabre-Madhin E, 2008. Impact of Cooperatives on Smallholders' Commercialization Behavior: Evidence from Ethiopia. Agricultural Economics 39, 147–61.

Bernard Tanguy, de Janvry Alain, Mbaye Samba, Sadoulet Elisabeth, 2017. Expected product market reforms and technology adoption by Senegalese onion producers. American Journal of Agricultural Economics 99, 1096–1115. https://doi.org/10.1093/ajae/aax033

Bernard Tanguy, Hidrobo Melissa, Le Port Agnes, Rawat Rahul, 2019. Nutrition-Based Incentives in Dairy Contract Farming in Northern Senegal. American Journal of Agricultural Economics 101, 404–435. https://doi.org/10.1093/ajae/aay036

Bernardes M S, Marín-Léon L, 2018. Group-based food and nutritional education for the treatment of obesity in adult women using the Family Health Strategy. Revista de Nutrição 31, 59–70. https://doi.org/10.1590/1678-98652018000100006

Bernardo Greyce Luci, Jomori Manuela Mika, Fernandes Ana Carolina, Colussi Claudia Flemming, Condrasky Margaret D, Proença Rossana Pacheco da Costa, 2017. Nutrition and Culinary in the Kitchen Intervention Program with university students- study protocol. Nutrition journal 16. https://doi.org/10.1186/s12937-017-0305-y

Berry J, Kartini Shastri G, Mukherjee P, Ruebeck H, 2011. Improving Mid-day Meal Delivery and Encouraging Micronutrient Fortification to Reduce Anemia and Malnutrition among Children in India. 3ie. https://doi.org/10.23846/OW3.IE77

Besley Timothy, Leight Jessica, Pande Rohini, Rao Vijayendra, 2015. Long-Run Impacts of Land Regulation: Evidence from Tenancy Reform in India.

Bett B, Randolph T F, Irungu P, Nyamwaro S O, Kitala P, Gathuma J, Grace D, Vale G, Hargrove J, McDermott J, 2010. Field trial of a synthetic tsetse-repellent technology developed for the control of bovine trypanosomosis in Kenya. Preventive Veterinary Medicine 97, 220–227. https://doi.org/10.1016/j.prevetmed.2010.09.001

Bezerra D S, Araujo K F. de, Azevedo G M. M, Dimenstein R, 2009. Maternal supplementation with retinyl palmitate during immediate postpartum period: potential consumption by infants. Suplementacao materna

com retinil palmitato no pos-parto imediato: consumo potencial por lactentes. 43, 572–579. https://doi.org/10.1590/S0034-89102009005000039

Bezner Kerr Rachel N, Young Sera L, Mtinda Elias, 2016. Singida Nutrition and Agroecology Project. https://clinicaltrials.gov/show/NCT02761876.

Bhandari N, Bahl R, Mazumdar S, Martines J, Black R E, Bhan M K, 2003. Effect of community-based promotion of exclusive breastfeeding on diarrhoeal illness and growth: A cluster randomised controlled trial. The Lancet 361, 1418–1431. https://doi.org/10.1016/S0140-6736%2803%2913134-0

Bhandari N, Bahl R, Nayyar B, Khokhar P, Rohde J E, Bhan M K, 2001. Food supplementation with encouragement to feed it to infants from 4 to 12 months of age has a small impact on weight gain. Journal of nutrition 131, 1946-1951. https://doi.org/10.1093/jn/131.7.1946

Bhandari Nita, Bahl Rajiv, Taneja Sunita, Strand Tor, Molbak Kare, Ulvik Rune Johan, Sommerfelt Halvor, Bhan Maharaj K, 2002. Substantial reduction in severe diarrheal morbidity by daily zinc supplementation in young north Indian children. Pediatrics 109, e86. https://doi.org/10.1542/peds.109.6.e86

Bhandari Nita, Mazumder Sarmila, Bahl Rajiv, Martines Jose, Black Robert E, Bhan Maharaj K, Infant Feeding Study Group, 2005. Use of multiple opportunities for improving feeding practices in under-twos within child health programmes. Health policy and planning 20, 328–36. https://doi.org/10.1093/heapol/czi039

Bhaskaram P, Balakrishna N, Nair K Madhavan, Sivakumar B, 2000. Vitamin A deficiency in infants: effects of postnatal maternal vitamin A supplementation on the growth and vitamin A status. Nutrition Research 20, 769–778. https://doi.org/10.1016/S0271-5317(00)00176-7

Bhattacharyya Sanghita, 2014. Community intervention to improve growth among children under two in rural India.

Bica Olga Claudino, Giugliani Elsa Regina Justo, 2014. Influence of Counseling Sessions on the Prevalence of Breastfeeding in the First Year of Life: A Randomized Clinical Trial with Adolescent Mothers and Grandmothers. Birth: Issues in Perinatal Care 41, 39–45. https://doi.org/10.1111/birt.12097

Bich Tran Huu, Cuong Nguyen Manh, 2017. Changes in knowledge, attitude and involvement of fathers in supporting exclusive breastfeeding: A community-based intervention study in a rural area of Vietnam. International journal of public health 62, 17–26. https://doi.org/10.1007/s00038-016-0882-0

Bich Tran Huu, Long Tran Khanh, Hoa Dinh Phuong, 2019. Community-based father education intervention on breastfeeding practice-Results of a quasi-experimental study. Maternal & child nutrition 15 Suppl 1, e12705. https://doi.org/10.1111/mcn.12705

Biggeri M, Burchi F, Ciani F, Herrmann R, 2018. Linking small-scale farmers to the durum wheat value chain in Ethiopia: Assessing the effects on production and wellbeing. Food Policy 79, 77–91. https://doi.org/10.1016/j.foodpol.2018.06.001

Billah S M, Ferdous T E, Karim M A, Dibley M J, Raihana S, Moinuddin M, Choudhury N, Ahmed T, Hoque D M E, Menon P, El-Arifeen S, 2017. A community-based cluster randomised controlled trial to evaluate the effectiveness of different bundles of nutrition-specific interventions in improving mean length-for-age z score among children at 24 months of age in rural Bangladesh: study protocol. BMC Public Health 17. https://doi.org/10.1186/s12889-017-4281-0

Birol Ekin, Karandikar Bhushana, Roy Devesh, Torero Maximo, 2015. Evidence from an in-store experiment in Mumbai: Information, certification and demand for food safety. Journal of Agricultural Economics 66, 470–491. https://doi.org/10.1111/1477-9552.12089

Bisimwa Ghislain, Owino Victor O, Bahwere Paluku, Dramaix Michèle, Donnen Philippe, Dibari Filippo, Collins Steve, 2012. Randomized controlled trial of the effectiveness of a soybean-maize-sorghum-based ready-to-use complementary food paste on infant growth in South Kivu, Democratic Republic of Congo. American Journal of Clinical Nutrition 95, 1157–1164. https://doi.org/10.3945/ajcn.111.028704

Bjorn Van Campenhout, Spielman David J, Lecoutere Els, 2018. Information and communication technologies (ICTs) to provide agricultural advice to smallholder farmers: Experimental evidence from Uganda.

Black M M, Baqui A H, Zaman K, Persson L A, El-Arifeen S, Le K, McNary S W, Parveen M, Hamadani J D, Black R E, 2004a. Iron and zinc supplementation promote motor development and exploratory behavior among Bangladeshi infants. American Journal of Clinical Nutrition 80, 903–910. https://doi.org/10.1093/ajcn/80.4.903

Black M M, Sazawal S, Black R E, Sonu Khosla, Jitendra Kumar, Venugopal Menon, 2004b. Cognitive and motor development among small-for-gestational-age infants: impact of zinc supplementation, birth weight, and caregiving practices. Pediatrics 113, 1297–1305. https://doi.org/10.1542/peds.113.5.1297

Bliss J, Golden K, Bourahla L, Stoltzfus R, Pelletier D, 2018. An emergency cash transfer program promotes weight gain and reduces acute malnutrition risk among children 6-24 months old during a food crisis in Niger. Journal of Global Health 8, 010410. https://doi.org/10.7189/jogh.08.010410

Boateng L, Ashley I, Ohemeng A, Asante M, Steiner-Asiedu M, 2018. Improving Blood Retinol Concentrations with Complementary Foods Fortified with Moringa oleifera Leaf Powder - A Pilot Study. The Yale journal of biology and medicine 91, 83–94.

Boateng Laurene, Quarpong Wilhemina, Ohemeng Agartha, Asante Matilda, Steiner-Asiedu Matilda, 2019. Effect of complementary foods fortified with Moringa oleifera leaf powder on hemoglobin concentration and growth of infants in the Eastern Region of Ghana. Food science & nutrition 7, 302–311. https://doi.org/10.1002/fsn3.890

Bodjrenou F S. U, Hounkpatin W A, Mitchodigni I, Salako V, Kakai R G, Dadele Y, Bouzitou G N, Schneider L, Mutanen M, Savy M, Kennedy G, Hounhouigan J D, Termote C, 2020. Comparing video and poster based education for improving 6-17 months children feeding practices: A cluster randomized trial in rural Benin. Progress in Nutrition 22, 330–342. https://doi.org/10.23751/pn.v22i1.9177

Boedecker J, Odour F O, Lachat C, Damme P van, Kennedy G, Termote C, 2019. Participatory farm diversification and nutrition education increase dietary diversity in Western Kenya. Maternal and Child Nutrition 15, e12803. https://doi.org/10.1111/mcn.12803

Bombem K C.M, Canella D S, B, oni D H, Jaime P C, 2014. Impact of an educational intervention using e-mail on diet quality. Nutrition & Food Science 44, 431–442. https://doi.org/10.1108/NFS-02-2013-0034

Bonan Jacopo, Pagani Laura, 2018. Junior Farmer Field Schools, Agricultural Knowledge and Spillover Effects: Quasi-Experimental Evidence from Northern Uganda. Journal of Development Studies 54, 2007–2022. https://doi.org/10.1080/00220388.2017.1355457

Bonvecchio Anabelle, Pelto Gretel H, Escalante Erika, Monterrubio Erick, Habicht J P, Nava Fernanda, Villanueva Maria-Angeles, Safdie Margarita, Rivera J A, 2007. Maternal knowledge and use of a micronutrient supplement was improved with a programmatically feasible intervention in Mexico. Journal of Nutrition 137, 440–446. https://doi.org/10.1093/jn/137.2.440

Boonyasopun Umaporn, Aree Patcharaporn, Avant Kay C, 2008. Effect of an empowerment-based nutrition promotion program on food consumption and serum lipid levels in hyperlipidemic Thai elderly. Nursing & Health Sciences 10, 93–100. https://doi.org/10.1111/j.1442-2018.2008.00375.x

Borah Prasanta K, Kalita Hem C, Paine Suman K, Khaund Purnananda, Bhattacharjee Chandra, Hazarika Dilip, Sharma Meenakshi, Mahanta Jagadish, 2018. An information, education and communication module to reduce dietary salt intake and blood pressure among tea garden workers of Assam. Indian Heart Journal 70, 252–258. https://doi.org/10.1016/j.ihj.2017.08.008

Borg Bindi, Sok Daream, Mihrshahi Seema, Griffin Mark, Chamnan Chhoun, Berger Jacques, Laillou Arnaud, Roos Nanna, Wieringa Frank T, 2020. Effectiveness of a locally produced ready-to-use supplementary food in preventing growth faltering for children under 2 years in Cambodia: a cluster randomised controlled trial. Maternal and Child Nutrition 16, e12896. https://doi.org/10.1111/mcn.12896

Borzekowski Dina L. G, Singpurwalla Darius, Mehrotra Deepti, Howard Donna, 2019. The impact of Galli Galli Sim Sim on Indian preschoolers. Journal of Applied Developmental Psychology 64. https://doi.org/10.1016/j.appdev.2019.101054

Bosch Christine, Zeller Manfred, Deffner Domenica, 2017. Adoption of an improved bean seed variety and consumption of beans in rural Madagascar: Evidence from a randomised control trial. Journal of Agriculture and Rural Development in the Tropics and Subtropics 118, 217–231.

Bougma K, Aboud F E, Lemma T M, Frongillo E A, Marquis G S, 2018. Introduction of iodised salt benefits infants' mental development in a community-based cluster-randomised effectiveness trial in Ethiopia. British Journal of Nutrition 119, 801–809. https://doi.org/10.1017/s0007114517003658

Bouguen Adrien, Frölich Markus, Koussoubé Estelle, Maiga Eugenie, 2019. The Effects of Integrated Soil Fertility Management in Burkina Faso. Innovations for poverty action (IPA).

Bouguen Adrien, Frolich Markus, Koussoubé Estelle, Maïga Eugènie, Varejkova Tereza, 2020. Impact evaluation of integrated soil fertility management programme in Burkina Faso. https://doi.org/10.23846/TW4IE123

Bouhouch R R, Bouhouch S, Cherkaoui M, Aboussad A, Stinca S, Haldimann M, Andersson M, Zimmermann M B, 2014. Direct iodine supplementation of infants versus supplementation of their breastfeeding mothers: a double-blind, randomised, placebo-controlled trial. The Lancet. Diabetes & endocrinology 2, 197-209. https://doi.org/10.1016/S2213-8587(13)70155-4

Bouhouch Raschida R, El-Fadeli Sana, Andersson Maria, Aboussad Abdelmounaim, Chabaa Laila, Zeder Christophe, Kippler Maria, Baumgartner Jeannine, Sedki Azzedine, Zimmermann Michael B, 2016. Effects of wheat-flour biscuits fortified with iron and EDTA, alone and in combination, on blood lead concentration, iron status, and cognition in children: a double-blind randomized controlled trial. American Journal of Clinical Nutrition 104, 1318–1326. https://doi.org/10.3945/ajcn.115.129346

Brander M, Bernauer T, Huss M, 2020. Improved on-farm storage reduces seasonal food insecurity of smallholder farmer households – Evidence from a randomized control trial in Tanzania. Food Policy. https://doi.org/10.1016/j.foodpol.2020.101891

Brauw Alan de, Eozenou Patrick, Moursi Mourad, 2015. Programme Participation Intensity and Children's Nutritional Status: Evidence from a Randomised Control Trial in Mozambique. Journal of Development Studies 51, 996–1015. https://doi.org/10.1080/00220388.2015.1018907

Breza Emily, Chandrasekhar Arun, Shenoy Ashish, 2012. Skimming Off the Top: The Unintended Consequences of Market Expansion in the Indian Dairy Industry.

Brito Beck da Silva K, Ortelan N, Giardini Murta S, Sartori I, Couto R D, Leovigildo Fiaccone R, Lima Barreto M, Jones Bell M, Barr Taylor C, Ribeiro-Silva R C, 2019. Evaluation of the Computer-Based Intervention Program Stayingfit Brazil to Promote Healthy Eating Habits: the Results from a School Cluster-Randomized Controlled Trial. International journal of environmental research and public health 16. https://doi.org/10.3390/ijerph16101674

Brown K H, de Romana D L, Arsenault J E, Peerson J M, Penny M E, 2007. Comparison of the effects of zinc delivered in a fortified food or a liquid supplement on the growth, morbidity, and plasma zinc concentrations of young Peruvian children. American Journal of Clinical Nutrition 85, 538–547.

Brück Tilman, Botía Oscar Mauricio Díaz, Ferguson Neil T N, Ouédraogo Jérôme, Ziegelhöfer Zacharias, 2019. Assets for Alimentation? The Nutritional Impact of Assets-based Programming in Niger. The Journal of Development Studies 55, 55–74. https://doi.org/10.1080/00220388.2019.1687876

Brück Tilman, Ferguson Neil T.N, Ouédraogo Jérôme, Ziegelhöfer Zacharias, 2018. An Impact Evaluation of WFP Malnutrition Interventions in Niger.

Bryce Jennifer, Gilroy Kate, Jones Gareth, Hazel Elizabeth, Black Robert E, Victora Cesar G, 2010. The accelerated child survival and development programme in west Africa: a retrospective evaluation. Lancet 375, 572–582. https://doi.org/10.1016/S0140-6736(09)62060-2

Bugrul F, Devecioglu E, Ozden T, Gokcay G, Omer B, 2013. Effect of maternal and infant vitamin D supplementation on vitamin D levels of breastfed infants. Turkish Journal of Pediatrics 55, 158–163.
Buller A M, Hidrobo M, Peterman A, Heise L, 2016. The way to a man's heart is through his stomach?: a mixed methods study on causal mechanisms through which cash and in-kind food transfers decreased intimate partner violence. BMC Public Health 16, 1–13. https://doi.org/10.1186/s12889-016-3129-3
Bumrungpert A, Somboonpanyakul P, Pavadhgul P, Thaninthranon S, 2018. Effects of fenugreek, ginger, and turmeric supplementation on human milk volume and nutrient content in breastfeeding mothers: a randomized double-blind controlled trial. Breastfeeding Medicine 13, 645–650. https://doi.org/10.1089/bfm.2018.0159
Burger N, Fu M, Gu K, Jia X, Kumar K B, Mingliang G, 2015. Assessing The Impact Of Farmer Field Schools On Fertiliser Use In China, 3ie Series Report.
Burki A A, 2015. Group-based BDS matching grants and farm-level outcomes in Pakistan. Journal of Development Effectiveness 7, 43–63. https://doi.org/10.1080/19439342.2014.959033
Burney J, Woltering L, Burke M, Naylor R, Pasternak D, 2010. Solar-powered drip irrigation enhances food security in the Sudano-Sahel. Proceedings of the National Academy of Sciences 107, 1848–1853. https://doi.org/10.1073/pnas.0909678107
Buttenheim A, Alderman H, Friedman J, 2011. Impact evaluation of school feeding programmes in Lao People's Democratic Republic. Journal of Development Effectiveness 520. https://doi.org/10.1080/19439342.2011.634511
Byiringiro Esdras, Jones Maria, Kondylis Florence Loeser, J., Magruder Jeremy, Ndahimana Christophe, 2020. Impacts, maintenance and sustainability of irrigation in Rwanda, 3ie Series Report. Completed. https://doi.org/10.23846/DPW1IE112
Byrd K, Dentz H N, Williams A, Kiprotich M, Pickering A J, Omondi R, Kwena O, Gouthami R, Arnold C D, Arnold B F, Dewey K G, Colford J M, Null C, Stewart C P, 2019. A behaviour change intervention with lipid-based nutrient supplements had little impact on young child feeding indicators in rural Kenya. Maternal and Child Nutrition 15, e12660. https://doi.org/10.1111/mcn.12660
Cabalda A B, Tengco L W, Solon J A, Sarol J N, Rayco-Solon P, Solon F S, 2009. Efficacy of pandesal baked from wheat flour fortified with iron and vitamin a in improving the iron and anthropometric status of anemic schoolchildren in the Philippines. Journal of the American College of Nutrition 28, 591–600.
Caeiro Rute M, Vicente Pedro C, 2020. Knowledge of vitamin A deficiency and crop adoption: Evidence from a field experiment in Mozambique. Agricultural Economics 51, 175–190. https://doi.org/10.1111/agec.12548
Cai Jing, Janvry Alain De, Sadoulet Elisabeth, 2014. A Randomised Evaluation Of The Effects Of An Agricultural Insurance Programme On Rural Households' Behaviour: Evidence From China. 3ie Series Report.
Calvince A O, Were G M, Khamasi J W, 2015. Impact evaluation of Positive Deviance Hearth in Migori County, Kenya. African Journal of Food, Agriculture, Nutrition and Development 15, 10578–10596.
Camacho Adriana, Conover Emily, 2019. The impact of receiving SMS price and weather information on small scale farmers in Colombia. World Development (Oxford) 123. https://doi.org/10.1016/j.worlddev.2019.06.020
Campbell Rebecca K, Hurley Kristen M, Shamim Abu Ahmed, Shaikh Saijuddin, Chowdhury Zaynah T, Mehra Sucheta, Wu Lee, Christian Parul, 2017. Complementary Food Supplements Increase Dietary Nutrient Adequacy and Do Not Replace Home Food Consumption in Children 6-18 Months Old in a Randomized Controlled Trial in Rural Bangladesh. Journal of Nutrition 148, 1484–1492. https://doi.org/10.1093/jn/nxy136
Campenhout Bjorn Van, 2017. Is There An App For That? The Impact Of Community Knowledge Workers In Uganda. Information, Communication & Society 20, 530–550. https://doi.org/10.1080/1369118X.2016.1200644
Campos-Vázquez R M, Medina-Cortina† E M, 2019. Pass-through and competition: the impact of soft drink taxes as seen through Mexican supermarkets. Latin American Economic Review 28. https://doi.org/10.1186/s40503-019-0065-5
Candelaria L V, Magsadia C R, Velasco R E, Pedro M R A, Barba C V C, Tanchoco C C, 2005. The effect of vitamin A-fortified coconut cooking oil on the serum retinol concentration of Filipino children 4-7 years old. Asia Pacific Journal of Clinical Nutrition 14, 43–53.
Cangöl E, Şahin N H, 2017. The Effect of a Breastfeeding Motivation Program Maintained During Pregnancy on Supporting Breastfeeding: a Randomized Controlled Trial. Breastfeeding medicine 12, 218-226. https://doi.org/10.1089/bfm.2016.0190
Cao JiaoYang, Wei XiaoPing, Tang XianQiang, Jiang HongPeng, Fan Zhen, Yu Qin, Chen Jie, Liu YouXue, Li TingYu, 2013. Effects of egg and vitamin A supplementation on hemoglobin, retinol status and physical growth levels of primary and middle school students in Chongqing, China. Asia Pacific Journal of Clinical Nutrition 22, 214–221. https://doi.org/10.6133/apjcn.2013.22.2.10
Cappuccio Francesco P, Kerry Sally M, Micah Frank B, Plange-Rhule Jacob, Eastwood John B, 2006. A Community Programme To Reduce Salt Intake And Blood Pressure In Ghana [ISRCTN88789643]. BMC Public Health 6. https://doi.org/10.1186/1471-2458-6-13
Cardoso M A, Augusto R A, Bortolini G A, Oliveira C S M, Tietzman D C, Sequeira L A S, Hadler M C C M, Peixoto M R G, Muniz P T, Vitolo M R, Lira P I C, Jaime P C, 2016. Effect of providing multiple micronutrients in powder through primary healthcare on anemia in young Brazilian children: a multicentre pragmatic controlled trial. PLoS ONE 11, e0151097. https://doi.org/10.1371/journal.pone.0151097
Carletto Calogero, Kilic Talip, Kirk Angeli, 2009. Non-traditional Crops, Traditional Constraints : Long-Term Welfare Impacts of Export Crop Adoption among Guatemalan Smallholders. World Bank.

Carolyne Kipkoech, Nanna Roos, 2017. Edible insects (cricket Acheta domesticus) in school meals for improved nutrition in pre-school children in Kenya. http://www.who.int/trialsearch/Trial2.aspx?TrialID=ISRCTN10920322. https://doi.org/10.1186/ISRCTN10920322

Carrillo Bladimir, Iglesias Wilman J, Trujillo Juan C, 2015. Attainments and limitations of an early childhood programme in Colombia. Health Policy and Planning 30, 906–916. https://doi.org/10.1093/heapol/czu091

Carrique-Mas J J, Rushton J, 2017. Integrated interventions to tackle antimicrobial usage in animal production systems: the ViParc project in Vietnam. Frontiers in Microbiology 8, 1062–1062. https://doi.org/10.3389/fmicb.2017.01062

Carter Michael, Laajaj Rachid, Yang Dean, 2016. Subsidies, Savings and Sustainable Technology Adoption: Field Experimental Evidence from Mozambique.

Carter Michael R, Laajaj Rachid, Yang Dean, 2014. Subsidies and the Persistence of Technology Adoption: Field Experimental Evidence from Mozambique Working Paper 20465. https://doi.org/10.3386/w20465

Carter Michael R, Laajaj Rachid, Yang Dean, 2013. The Impact of Voucher Coupons on the Uptake of Fertilizer and Improved Seeds: Evidence from a Randomized Trial in Mozambique. American Journal of Agricultural Economics 95, 1345–1351. https://doi.org/10.1093/ajae/aat040

Carter Michael R, Tjernstrom Emilia, Toledo Patricia, 2019. Heterogeneous Impact Dynamics of a Rural Business Development Program in Nicaragua. Journal of Development Economics 138, 77–98. https://doi.org/10.1016/j.jdeveco.2018.11.006

Carvalho N, Thacker N, Gupta S S, Salomon J A, 2014. More evidence on the impact of India's conditional cash transfer program, Janani Suraksha Yojana: quasi-experimental evaluation of the effects on childhood immunization and other reproductive and child health outcomes. PLoS ONE 9, e109311. https://doi.org/10.1371/journal.pone.0109311

Casaburi L, Glennerster R, Suri T, Kamara S, 2014. Providing Collateral And Improving Product Market Access For Small Holder Farmers: A Randomised Evaluation Of Inventory Credit In Sierra Leone [WWW Document]. URL https://www.povertyactionlab.org/evaluation/impact-inventory-credit-program-palm-oil-farmers-sierra-leone

Casaburi L, Kremer M, Mullainathan S, Ramrattan R, 2019. Harnessing ICT to increase agricultural production: Evidence from Kenya.

Castillo-Duran C, Perales C G, Hertrampf E D, Marin V B, Rivera F A, Icaza G, 2001. Effect of zinc supplementation on development and growth of Chilean infants. Journal of Pediatrics 138, 229–235. https://doi.org/10.1067/mpd.2001.110530

Castillo-Duran Carlos, Marin Veronica B, Alcazar Luisa S, Iturralde Hilda, Ruz Manuel O, 2001. Controlled trial of zinc supplementation in Chilean pregnant adolescents. Nutrition Research 21, 715–724. https://doi.org/10.1016/S0271-5317(01)00285-8

Castro M B T, Cunha D B, Araujo M C, Bezerra I N, Adegboye A R A, Kac G, Sichieri R, 2019. High protein diet promotes body weight loss among Brazilian postpartum women. Maternal & Child Nutrition 15. https://doi.org/10.1111/mcn.12746

Caudell M A, Charoonsophonsak P V, Miller A, Lyimo B, Subbiah M, Buza J, Call D R, 2019. Narrative risk messages increase uptake and sharing of health interventions in a hard-to-reach population: a pilot study to promote milk safety among Maasai pastoralists in Tanzania. Pastoralism: Research, Policy and Practice 9. https://doi.org/10.1186/s13570-019-0142-z

Cavalcanti D S, Cabral C S, Vianna R P T, Osorio M M, 2019. Online participatory intervention to promote and support exclusive breastfeeding: Randomized clinical trial. Maternal & child nutrition 15, e12806. https://doi.org/10.1111/mcn.12806

Cavatassi R, Winters P, Gonzalez-Flores M, Salazar L, 2011. How do Agricultural Programmes Alter Crop Production? Evidence from Ecuador [electronic resource]. Journal of agricultural economics 62, 403–428. https://doi.org/10.1111/j.1477-9552.2010.00279.x

Cavatassi Romnia, Mallia Paola, 2019. IFAD Impact Assessment – Livestock and Pasture Development Project (LPDP): Tajikistan. International fund for agricultural development (IFAD).

Ceballos Francisco, Isaac R Manuel, Robles Miguel, Butler Andre, 2015. Smallholder Access To Weather Securities In India Demand And Impact On Production Decisions. 3ie Series Report 28, 1–77.

Cercamondi Colin I, Egli Ines M, Mitchikpe Evariste, Tossou Felicien, Hessou Joamel, Zeder Christophe, Hounhouigan Joseph D, Hurrell Richard F, 2013. Iron bioavailability from a lipid-based complementary food fortificant mixed with millet porridge can be optimized by adding phytase and ascorbic acid but not by using a mixture of ferrous sulfate and sodium iron EDTA. Journal of nutrition 143, 1233–1239. https://doi.org/10.3945/jn.113.175075

Cerdan-Infantes Pedro, Maffioli Alessandro, Ubfal Diego, 2009. Improving Technology Adoption In Agriculture Through Extension Services: Evidence From Uruguay. Inter-American Development Bank.

Cerdan-Infantes Pedro, Maffioli Alessandro, Ubfal Diego, 2008. The Impact of Agricultural Extension Services: The Case of Grape Production in Argentina. Inter-American development bank.

Cervo M M. C, Mendoza D S, Barrios E B, Panlasigui L N, 2017. Effects of nutrient-fortified milk-based formula on the nutritional status and psychomotor skills of preschool children. Journal of Nutrition and Metabolism 2017, Article-6456738. https://doi.org/10.1155/2017/6456738

Cervo Mavil May C, Llido Luisito O, Barrios Erniel B, Panlasigui Leonora N, 2014. Effects of canned pineapple consumption on nutritional status, immunomodulation, and physical health of selected school children. Journal of Nutrition and Metabolism 2014, 1–9. https://doi.org/10.1155/2014/861659

CGIAR, 2019. Using Social Networks to Promote New Agricultural Technologies in Nepal. CGIAR.

Chagas Carolina Martins dos Santos, Pontes e Silva Tiago Barros, Reffatti Luiggi Monteiro, Botelho Raquel Braz Assunção, Toral Natacha, 2018. Rango Cards, a digital game designed to promote a healthy diet: a randomized study protocol. BMC Public Health 18. https://doi.org/10.1186/s12889-018-5848-0

Chakrabarti S, Kishore A, Raghunathan K, Scott S P, 2019. Impact of subsidized fortified wheat on anaemia in pregnant Indian women. Maternal & child nutrition 15, e12669. https://doi.org/10.1111/mcn.12669

Chang S, El-Arifeen S, Bari S, Wahed M A, Rahman K M, Rahman M T, Mahmud A B A, Begum N, Zaman K, Baqui A H, Black R E, 2010. Supplementing iron and zinc: double blind, randomized evaluation of separate or combined delivery. European Journal of Clinical Nutrition 64, 153–160. https://doi.org/10.1038/ejcn.2009.127

Chankrajang Thanyaporn, 2015. Partial Land Rights and Agricultural Outcomes: Evidence from Thailand. Land Economics 91, 126–48.

Charles Christopher V, Dewey Cate E, Daniell William E, Summerlee Alastair J. S, 2011. Iron-deficiency anaemia in rural Cambodia: community trial of a novel iron supplementation technique. European Journal of Public Health 21, 43–48. https://doi.org/10.1093/eurpub/ckp237

Chatterjee P, Kumar P, Kandel R, Madan R, Tyagi M, Kumar D A, Khan M A, Desai G, Chaudhary P, Gupta S, Grover K, Dey A B, 2018. Nordic walking training and nutritional supplementation in pre-frail older Indians: an open-labelled experimental pre-test and post-test pilot study to develop intervention model. BMC Geriatrics 18, 10. https://doi.org/10.1186/s12877-018-0890-4

Chavasit Visith, Porasuphatana Suparat, Suthutvoravut Umaporn, Zeder Christroph, Hurrell Richard, 2015. Iron bioavailability in 8-24-month-old Thai children from a micronutrient-fortified quick-cooking rice containing ferric ammonium citrate or a mixture of ferrous sulphate and ferric sodium ethylenediaminetetraacetic acid. Maternal & Child Nutrition 11, 179–187. https://doi.org/10.1111/mcn.12167

Chaves A F L, Ximenes L B, Rodrigues D P, Vasconcelos C T M, Monteiro J C D S, Oriá M O B, 2019. Telephone intervention in the promotion of self-efficacy, duration and exclusivity of breastfeeding: randomized controlled trial. Revista Latino-Americana de Enfermagem (RLAE) 27, 1–9. https://doi.org/10.1590/1518-8345.2777-3140

Chawla P K, Sharma S, 2007. Nutritional status and mental ability of school girls (7-9 years) as influenced by nutrition counselling. Journal of Human Ecology 22, 1–5. https://doi.org/10.1080/09709274.2007.11905990

Che'Muda C M, Ismail T A T, Jalil R A, Hairon S M, Sulaiman Z, Johar N, 2019. Postnatal breastfeeding education at one week after childbirth: What are the effects? Women and Birth 32, e243–e251. https://doi.org/10.1016/j.wombi.2018.07.008

Chen C M, Wang Y Y, Chang S Y, 2010. Effect of in-home fortification of complementary feeding on intellectual development of Chinese children. Biomedical and environmental sciences : BES 23, 83–91. https://doi.org/10.1016/S0895-3988(10)60036-0

Chen Chaoran, Restuccia Diego, Santaeulàlia-Llopis Raül, 2017. The Effects of Land Markets on Resource Allocation and Agricultural Productivity 24034. https://doi.org/10.3386/w24034

Chen J, Zhao X, Zhang X, Yin S, Piao J, Huo J, Yu B, Qu N, Lu Q, Wang S, Chen C, 2005. Studies on the effectiveness of NaFeEDTA-fortified soy sauce in controlling iron deficiency: a population-based intervention trial. Food and Nutrition Bulletin 26, 177–186.

Chen Juan, Tian Ye, Liao Yixing, Yang Shuaishuai, Li Zhuoting, He Chao, Tu DaHong, Sun Xinying, 2013. Salt-restriction-spoon improved the salt intake among residents in China. PLoS ONE 8. https://doi.org/10.1371/journal.pone.0078963

Chen L, Liu Y, Gong M, Jiang W, Fan Z, Qu P, Chen J, Liu Y, Li T, 2012. Effects of vitamin A, vitamin A plus zinc, and multiple micronutrients on anemia in preschool children in Chongqing, China. Asia Pacific Journal of Clinical Nutrition 21, 3–11.

Chen Qihui, Pei Chunchen, Zhao Qiran, 2020. Intrahousehold flypaper effects — Quasi-experimental evidence from a randomized school-feeding program in rural northwestern China. Economics Letters 191. https://doi.org/10.1016/j.econlet.2020.109134

Cheng W D, Wold K J, Bollinger L B, Ordiz M I, Shulman R J, Maleta K M, Manary M J, Trehan I, 2019. Supplementation with lactoferrin and lysozyme ameliorates environmental enteric dysfunction: a double-blind, randomized, placebo-controlled trial. American Journal of Gastroenterology 114, 671–678. https://doi.org/10.14309/ajg.0000000000000170

Chesterman Nathan S, Entwistle Julia, Chambers Matthew C, Liu Hsiao-Chin, Agrawal Arun, Brown Daniel G, 2019. The effects of trainings in soil and water conservation on farming practices, livelihoods, and land-use intensity in the Ethiopian highlands. Land Use Policy 87. https://doi.org/10.1016/j.landusepol.2019.104051

Chhagan Meera K, Broeck Jan Van den, Luabeya Kany-Kany A, Mpontshane Nontobeko, Tomkins Andrew, Bennish Michael L, 2010. Effect on longitudinal growth and anemia of zinc or multiple micronutrients added to vitamin A: a randomized controlled trial in children aged 6-24 months. BMC public health. https://doi.org/10.1186/1471-2458-10-145

Chibwana Christopher, Shively Gerald, Fisher Monica, Jumbe Charles, Masters William A, 2014. Measuring the impacts of Malawi's farm input subsidy programme. African Journal of Agricultural and Resource Economics 9, 132–147. https://doi.org/10.2139/ssrn.1860867

Chidziwisano Kondwani R, Slekiene Jurgita, Mosler Hans-Joachim, Morse Tracy, 2020. Evaluating a complementary food hygiene behavior change intervention in rural Malawi. The American Journal of Tropical Medicine and Hygiene 102, 1104–1115. https://doi.org/10.4269/ajtmh.19-0528

Chilemba J, Ragasa C, 2019. The Impact of a Farmer Business School Program on Incomes of Smallholder Farmers: Insights from Central Malawi. European Journal of Development Research 32, 906–938. https://doi.org/10.1057/s41287-019-00246-y

Chilenje Infant Growth Nutrition and Infection (CIGNIS) Study Team, 2008. Micronutrient fortification to improve growth and health of maternally HIV-unexposed and exposed Zambian infants: a randomised controlled trial. PLos One 5, e11165. https://doi.org/10.1371/journal.pone.0011165

Chilundo A G, Johansen M V, Pondja A, Miambo R, Afonso S, Mukaratirwa S, 2018. Piloting the effectiveness of pig health education in combination with oxfendazole treatment on prevention and/or control of porcine cysticercosis, gastrointestinal parasites, African swine fever and ectoparasites in Angonia District, Mozambique. Tropical animal health and production 50, 589–601. https://doi.org/10.1007/s11250-017-1474-6

Chimhashu T, Malan L, Baumgartner J, van Jaarsveld P J, Galetti V, Moretti D, Smuts C M, Zimmermann M B, 2018. Sensitivity of fatty acid desaturation and elongation to plasma zinc concentration: a randomised controlled trial in Beninese children. The British Journal of Nutrition 119, 610–619.

Chiputwa B, Wainaina P, Makui P, Nakelse T, Zougmoré R, Ndiaye O, 2018. Evaluating the Impact of the Multidisciplinary Working Group Model on Farmers' Use of Climate Information Services in Senegal.

Chirwa Ephraim W, Matita Mirriam M, Mvula Peter M, Dorward Andrew, 2011. Impacts of the Farm Input Subsidy Programme in Malawi.

Chomba Elwyn, Westcott Claire M, Westcott Jamie E, Mpabalwani Evans M, Krebs Nancy F, Patinkin Zachary W, Palacios Natalia, Hambidge K Michael, 2015. Zinc absorption from biofortified maize meets the requirements of young rural Zambian children. Journal of Nutrition 145, 514–519. https://doi.org/10.3945/jn.114.204933

Choudhary Sonika Divya, 2014. Effect of whey guava beverage supplementation on haemoglobin level of school going children. Indian Journal of Community Health 26, 123–129.

Choudhury D R, Nair K M, Balakrishna N, Radhakrishna K V, Ghosh S, Rao S F, 2019. A food synergy approach in a national program to improve the micronutrient status of preschoolers: a randomized control trial protocol. Annals reports. 1438, 40–49. https://doi.org/10.1111/nyas.13953

Choudhury Dripta Roy, Fernandez Rao Sylvia, Balakrishna Nagalla, K Vijaya Radhakrishna, Ghosh Sudip, Nair K Madhavan, 2017. Introduction of guava in supplementary nutrition meal provisioned for 24-60mo children by integrated child development scheme (ICDs) improves iron status of beneficiaries. Annals of nutrition & metabolism 71, 683-684. https://doi.org/10.1159/000480486

Choudhury N, Aimone A, Hyder S M. Z, Zlotkin S H, 2012. Relative efficacy of micronutrient powders versus iron-folic acid tablets in controlling anemia in women in the second trimester of pregnancy. Food and Nutrition Bulletin 33, 142–149. https://doi.org/10.1177/156482651203300208

Choudhury Nuzhat, Raihan Mohammad Jyoti, Ahmed SM Tanvir, Islam Kazi Eliza, Self Vanessa, Rahman Shahed, Schofield Lilly, Hall Andrew, Ahmed Tahmeed, 2020. The evaluation of Suchana, a large-scale development program to prevent chronic undernutrition in north-eastern Bangladesh. BMC Public Health 20, 9. https://doi.org/10.1186/s12889-020-08769-4

Chowdhury M, Raynes-Greenow C, Alam A, Dibley M J, 2017. Making a balanced plate for pregnant women to improve birthweight of infants: a study protocol for a cluster randomised controlled trial in rural Bangladesh. BMJ Open 7, e015393. https://doi.org/10.1136/bmjopen-2016-015393

Christian Parul, Kim JeongYong, Mehra Sucheta, Shaikh Saijuddin, Ali Hasmot, Shamim Abu Ahmed, Wu Lee, Klemm Rolf, Labrique Alain B, West Keith P Jr, 2016. Effects of prenatal multiple micronutrient supplementation on growth and cognition through 2 y of age in rural Bangladesh: the JiVitA-3 Trial. American Journal of Clinical Nutrition 104, 1175–1182. https://doi.org/10.3945/ajcn.116.135178

Christian Parul, Murray-Kolb Laura E, Khatry Subarna K, Katz Joanne, Schaefer Barbara A, Cole Pamela M, LeClerq Steven C, Tielsch James M, 2010. Prenatal micronutrient supplementation and intellectual and motor function in early school-aged children in Nepal. JAMA: Journal of the American Medical Association 304, 2716–2723. https://doi.org/10.1001/jama.2010.1861

Chukwuji Christopher Okeleke, 2013. Increasing Crop Output through Improved Technology Adoption: The Fadama III Approach in Delta State, Nigeria. Asian Journal of Agriculture and Rural Development 3, 400–411. https://doi.org/10.22004/ag.econ.198145

Ciftci Esra K, Arikan Duygu, 2012. The effect of training administered to working mothers on maternal anxiety levels and breastfeeding habits. Journal of Clinical Nursing 21, 2170–2178. https://doi.org/10.1111/j.1365-2702.2011.03957.x

Cisneros Josefina Ruiz Esparza, Vasconcelos-Ulloa Javier J, Gonzalez-Mendoza Daniel, Beltran-Gonzalez Guillermo, Diaz-Molina Raul, 2020. Effect of dietary intervention with a legume-based food product on malondialdehyde levels, HOMA index, and lipid profile. Endocrinología, Diabetes y Nutrición 67, 235–244. https://doi.org/10.1016/j.endinu.2019.08.003

Clausen J H, Madsen H, Murrell K D, Bui T N, Nguyen N T, Do D T, Thi L A. N, Manh H N, Dalsgaard A, 2013. The effectiveness of different intervention strategies for the prevention of zoonotic metacercariae infection in cultured fish. Aquaculture 416–417, 135–140. https://doi.org/10.1016/j.aquaculture.2013.09.006

Coelho Cidéli de Paula, Soto Francisco Rafael Martins, Vuaden Erlete Rosalina, Melville Priscilla Anne, Oliveira Flávia Carolina Souza, Benites Nilson Roberti, 2009. Evaluation of preventive homeopathic treatment against Colibacillosis in swine production. International Journal of High Dilution Research 8, 183–190.

Coelho Lima Pedro, Melo Sales Soares De Azevedo Andrea, 2015. The Impact Of The "Bolsa Família" Program On Household Diet Quality, Pernambuco State, Brazil. Ciência & Saúde Coletiva 22, 393–402. https://doi.org/10.1590/1413-81232017222.13622015

Cofie A, 2012. An Integrated Education Intervention to Improve Infant and Young Child Nutrition and Growth in Ghana. An Integrated Education Intervention to Improve Infant and Young Child Nutrition and Growth in Ghana.

Colchero M A, Rivera-Dommarco J, Popkin B M, Ng S W, 2017. In Mexico, Evidence Of Sustained Consumer Response Two Years After Implementing A Sugar-Sweetened Beverage Tax. Health Affairs 36. https://doi.org/10.1377/hlthaff.2016.1231

Colchero M Arantxa, Popkin Barry M, Rivera Juan A, Ng Shu Wen, 2016. Beverage purchases from stores in Mexico under the excise tax on sugar sweetened beverages: observational study. The BMJ 352. https://doi.org/10.1136/bmj.h6704

Cole Shawn, Giné Xavier, Vickery James, 2013. How Does Risk Management Influence Production Decisions? Evidence from a Field Experiment. World Bank - Policy Research Working Paper.

Conan Anne, Ponsich Aurelia, Luce Goutard, Flavie, Khiev Ratana, Tarantola Arnaud, Sorn San, Vong Sirenda, 2013. A community-based education trial to improve backyard poultry biosecurity in rural Cambodia. Acta tropica 125, 294–302. https://doi.org/10.1016/j.actatropica.2012.12.006

Conceicao de Oliveira Maria, Sichieri Rosely, Sanchez Moura Anibal, 2003. Weight loss associated with a daily intake of three apples or three pears among overweight women. Nutrition (Burbank, Los Angeles County, Calif.) 19, 253–6.

Conrado V, Tuscano J, Oñate B, Torio E, Umengan J, Paat N K, 2017. Evaluation of the Impact of Agricultural Insurance Program of the Philippine Crop Insurance Corporation on Agricultural Producers in Region 02 (Cagayan Valley), Philippines.

Cooper W N, Khulan B, Owens S, Elks C E, Seidel V, Prentice A M, Belteki G, Ong K K, Affara N A, Constancia M, Dunger D B, 2012. DNA methylation profiling at imprinted loci after periconceptional micronutrient supplementation in humans: results of a pilot randomized controlled trial. FASEB Journal 26, 1782–1790. https://doi.org/10.1096/fj.11-192708

Costa Cintia S, Campagnolo Paula D. B, Lumey L H, Vitolo Marcia R, 2017. Effect of maternal dietary counselling during the 1st year of life on glucose profile and insulin resistance at the age of 8 years: a randomised field trial. British Journal of Nutrition 117, 134–141. https://doi.org/10.1017/S0007114516004578

Coulibaly Jeanne Y, Chiputwa Brian, Nakelse Tebila, Kundhlande Godfrey, 2017. Adoption of agroforestry and the impact on household food security among farmers in Malawi. Agricultural Systems 155, 52–69. https://doi.org/10.1016/j.agsy.2017.03.017

Coutinho G G P L, Cury P M, Cordeiro J A, 2013. Cyclical iron supplementation to reduce anemia among Brazilian preschoolers: a randomized controlled trial. BMC Public Health 13. https://doi.org/10.1186/1471-2458-13-21

Coutinho Geraldo Gaspar Paes Leme, Goloni-Bertollo Eny Maria, Pavarino-Bertelli Erika Cristina, 2008. Effectiveness of two programs of intermittent ferrous supplementation for treating iron-deficiency anemia in infants: randomized clinical trial. Sao Paulo Medical Journal 126, 314–318. https://doi.org/10.1590/S1516-31802008000600004

Coutinho S B, Cabral de Lira P I, Lima M D, Ashworth A, 2005. Comparison of the effect of two systems for the promotion of exclusive breastfeeding. The Lancet 366, 1094–1100. https://doi.org/10.1016/S0140-6736%2805%2967421-1

Craciun Catrinel, Baban Adriana, 2008. The role of self-efficacy, past habits, and action plans in children's eating habits. Cognition, Brain, Behavior: An Interdisciplinary Journal 12, 205–218.

Cui Dongan, Wang Xuezhi, Wang Lei, Wang Xurong, Zhang Jingyan, Qin Zhe, Li Jianxi, Yang Zhiqiang, 2014. The administration of Sheng Hua Tang immediately after delivery to reduce the incidence of retained placenta in Holstein dairy cows. Theriogenology 81, 645–650. https://doi.org/10.1016/j.theriogenology.2013.11.019

Cunha Diana B, de Souza Barbara da S. N, Pereira Rosangela A, Sichieri Rosely, 2013. Effectiveness of a Randomized School-Based Intervention Involving Families and Teachers to Prevent Excessive Weight Gain among Adolescents in Brazil. Plos one 8. https://doi.org/10.1371/journal.pone.0057498

Cunha Diana Barbosa, Junior Eliseu Verly, Paravidino Vitor Barreto, Araújo Marina Campos, Mediano Mauro Felippe Felix, Sgambato Michele Ribeiro, da Silva Nalin de Souza Bárbara, Marques Emanuele Souza, Baltar Valéria Troncoso, de Oliveira Alessandra Silva Dias, da Silva Ana Carolina Feldenheimer, Pérez-Cueto Federico J, Pereira Rosangela Alves, Sichieri Rosely, 2017. Design of a school randomized trial for nudging students towards healthy diet and physical activity to prevent obesity: PAAPAS Nudge study protocol. Medicine 96, 1–5. https://doi.org/10.1097/MD.0000000000008898

Cunha Jesse M, 2014. The Price Effects Of Cash Versus In-Kind Transfers. American Economic Journal: Applied Economics 6, 195–230. https://doi.org/10.1257/app.6.2.195

Curtiss Jarmila, Gagalyuk Taras, Ostapchuk Igor, 2017. Effect Of Public Subsidies On Productivity Of Crop Producing Farms In Ukraine – A Farm-level Difference-in-differences Analysis. https://doi.org/10.22004/ag.econ.260916

Dai X, Pu L, Rao F, 2017. Assessing the effect of a crop-tree intercropping program on smallholders' incomes in rural Xinjiang, China. Sustainability (Switzerland) 9. https://doi.org/10.3390/su9091542

Daidone S, Davis B, Knowles M, Pickmans R, Pace N, Handa S, 2017. The Social Cash Transfer Programme and the Farm Input Subsidy Programme in Malawi. Food and agriculture organization of the United Nations.

Daidone Silvio, Benjamin Davis, Borja Miguelez, Joshua Dewbre, Luca Pellerano, Ousmane Niang, 2017. Linking agriculture and social protection for food security: The case of Lesotho. Global food security 12, 146–154. https://doi.org/10.1016/j.gfs.2016.12.002

Daivadanam Meena, Wahlstrom Rolf, Ravindran Sundari T. K, Sarma Sankara P, Sivasankaran S, Thankappan K R, 2018. Changing household dietary behaviours through community-based networks: A pragmatic cluster randomized controlled trial in rural Kerala, India. PLoS ONE 13, e0201877. https://doi.org/10.1371/journal.pone.0201877

Dali Wan Putri Elena Wan, Shahril Mohd Razif, Lua Pei Lin, 2014. Outcomes on psychosocial factors and nutrition-related quality of life: Evaluation of a 10-week nutrition education intervention in university students. ASEAN Journal of Psychiatry 15, 39–53.

Dana P, 2011. Effects of peer counseling on feeding practices of HIV positive and HIV negative women in South Africa: a randomized control trial.

Danesh Azar, Janghorbani Mohsen, 2010. Effects of zinc supplementation during pregnancy on pregnancy outcome in women with history of preterm delivery: a double-blind randomized, placebo-controlled trial. The Journal of Maternal-Fetal and Neonatal Medicine 25, 403–408. https://doi.org/10.1080/14767050903165214

Dangour A D, Albala C, Allen E, Grundy E, Walker D G, Aedo C, Sanchez H, Fletcher O, Elbourne D, Uauy R, 2011. Effect of a nutrition supplement and physical activity program on pneumonia and walking capacity in Chilean older people: a factorial cluster randomized trial. PLoS Medicine 8, e1001023. https://doi.org/10.1371/journal.pmed.1001023

Daniele Giammarco, Mookerjee Sulagna, Tommasi Denni, 2018. Informational shocks and street-food safety: A field study in urban India.

Danso-Abbeam Gideon, Baiyegunhi Lloyd J. S, 2019. Does fertiliser use improve household welfare? evidence from Ghana's cocoa industry. Development in Practice 29, 170–182. https://doi.org/10.1080/09614524.2018.1526887

Danso-Abbeam Gideon, Ehiakpor Dennis Sedem, Aidoo Robert, 2018. Agricultural extension and its effects on farm productivity and income: Insight from Northern Ghana. Agriculture and Food Security 7. https://doi.org/10.1186/s40066-018-0225-x

Dantas Marcia Marilla Gomes, Rocha Erika Dantas Medeiros, Brito Naira Josele Neves, Alves Camila Xavier, Franca Mardone Cavalcante, Almeida Maria das Gracas, Brandao-Neto Jose, 2015. Bioelectrical impedance vector analysis for evaluating zinc supplementation in prepubertal and healthy children. Food & Nutrition Research 59. https://doi.org/10.3402/fnr.v59.28918

Dar M H, De Janvry A, Emerick K, Raitzer D, Sadoulet E, 2013. Flood-Tolerant Rice Reduces Yield Variability And Raises Expected Yield, Differentially Benefitting Socially Disadvantaged Groups. Scientific Reports 3, 1–8. https://doi.org/10.1038/srep03315

Darboe M K, Thurnham D I, Morgan G, Adegbola R A, Secka O, Solon J A, Jackson S J, Northrop-Clewes C, Fulford T J, Doherty C P, Prentice A M, 2007. Effectiveness of an early supplementation scheme of high-dose vitamin A versus standard WHO protocol in Gambian mothers and infants: a randomised controlled trial. Lancet (British edition) 369, 2088–2096. https://doi.org/10.1016/S0140-6736(07)60981-7

Dargie Felegush, Henry Carol J, Hailemariam Hailu, Regassa Nigatu, 2018. A peer-led pulse-based nutrition education intervention improved school-aged children's knowledge, attitude, practice (KAP) and nutritional status in southern Ethiopia. Journal of Food Research 7, 38–49. https://doi.org/10.5539/jfr.v7n3p38

Darling A M, McDonald C R, Urassa W S, Kain K C, Mwiru R S, Fawzi W W, 2017a. Maternal dietary L-arginine and adverse birth outcomes in Dar es Salaam, Tanzania. American Journal of Epidemiology 186, 603–611. https://doi.org/10.1093/aje/kwx080

Darling A M, Mugusi F M, Etheredge A J, Gunaratna N S, Abioye A I, Aboud S, Duggan C, Mongi R, Spiegelman D, Roberts D, Hamer D H, Kain K C, Fawzi W W, 2017b. Vitamin A and zinc supplementation among pregnant women to prevent placental malaria: a randomized, double-blind, placebo-controlled trial in Tanzania. American Journal of Tropical Medicine and Hygiene 96, 826–834. https://doi.org/10.4269/ajtmh.16-0599

Das M, 2013. Evaluation of effectiveness of iron-folate supplementation and anthelminthic therapy against morbidity and money earning capacity of coal mine workers of Assam. Asian Journal of Home Science 8, 472–475.

Das Narayan, Yasmin Rabeya, Ara Jinnat, Kamruzzaman Md, Davis Peter, Behrman Julia A, Roy Shalini, Quisumbing Agnes R, 2013. How Do Intrahousehold Dynamics Change When Assets Are Transferred To Women? Evidence From BRAC's Challenging The Frontiers Of Poverty Reduction—Targeting The Ultra Poor Program In Bangladesh. International Food Policy Research Institute (IFPRI), Completed.

Datar G, Del Carpio X V, Hoffman V, 2009. Can a market-assisted land redistribution program improve the lives of the poor ? evidence from Malawi. The World Bank, Policy Research Working Paper Series.

Datta N, 2015. Evaluating Impacts of Watershed Development Program on Agricultural Productivity, Income, and Livelihood in Bhalki Watershed of Bardhaman District, West Bengal. World Development 66, 443–456. https://doi.org/10.1016/j.worlddev.2014.08.024

Davarani E R, Mahmood M R, Khanjani N, Fadakar M M, 2019. The effect of educational intervention based on the theory of planned behavior on nutritional behavior with regard to cardiovascular diseases among health volunteers. Journal of Nutrition and Food Security 4, 93–100.

Davidson K A, Kropp J D, Mullally C, Rahman M W, 2020. Can Simple Nudges and Workshops Improve Diet Quality? Evidence from a Randomized Trial in Bangladesh. American Journal of Agricultural Economics 00, 1–22. https://doi.org/10.1111/ajae.12099

Davidsson Lena, Walczyk Thomas, Zavaleta Nelly, Hurrell Richard F, 2001. Improving iron absorption from a Peruvian school breakfast meal by adding ascorbic acid or Na2EDTA. American journal of clinical nutrition 73, 283–287. https://doi.org/10.1093/ajcn/73.2.283

Davis K, Nkonya E, Menkonnen M, Odendo M, Miiro R, Nkuba J, 2012. Impact of Farmer Field Schools on Agricultural Productivity and Poverty in East Africa. World Development 40, 402–13. https://doi.org/10.1016/j.worlddev.2011.05.019

Dawang C, 2018. Impact of Fishery Regulatory Innovation on Income and Nutrition of Smallholder Households in Plateau State, Nigeria. https://doi.org/10.22004/ag.econ.277174

de Brauw A, Eozenou P, Gilligan D O, Hotz C, Kumar N, Meenakshi J V, 2015. Biofortification, Crop Adoption and Health Information: Impact Pathways in Mozambique and Uganda. American journal of agricultural economics.

de Brauw A, Moursi M, Munhaua A B, 2019. Vitamin A intakes remain higher among intervention participants 3 years after a biofortification intervention in Mozambique. The British journal of nutrition 122, 1175–1181. https://doi.org/10.1017/S0007114519002162

de Brito N J, Rocha E D, Silva AA, Costa J B, Franca M C, Almeida M, Brandao-Neto J, 2014. Oral zinc supplementation decreases the serum iron concentration in healthy schoolchildren: a pilot study. Nutrients 6, 3460–3473. https://doi.org/10.3390/nu6093460

de Hoop Thomas, 2015. Impact Evaluation of BRAC's Nutrition and Early Childhood Development Programs.

De los Santos-Montero, L A, Bravo-Ureta B E, 2017. Natural Resource Management and Household Well-being: The Case of POSAF-II in Nicaragua. World Development 99, 42–59. https://doi.org/10.1016/j.worlddev.2017.07.001

De los Santos-Montero Luis A, Bravo-Ureta Boris E, 2017. Productivity effects and natural resource management: econometric evidence from POSAF-II in Nicaragua. Natural Resources Forum 41, 220–233. https://doi.org/10.1111/1477-8947.12133

de Mello E D, Luft V C, Meyer F, 2004. Individual outpatient care versus group education programs. Which leads to greater change in dietary and physical activity habits for obese children? Jornal de Pediatria 80, 468–474. https://doi.org/10.2223/JPED.1260

de Oliveira L D, Giugliani E R. J, Santo L C. do E, Nunes L M, 2012. Impact of a strategy to prevent the introduction of non-breast milk and complementary foods during the first 6 months of life: a randomized clinical trial with adolescent mothers and grandmothers. Early Human Development 88, 357–361. https://doi.org/10.1016/j.earlhumdev.2011.09.010

De Silva A, Atukorala S, Weerasinghe I, Ahluwalia N, 2003. Iron supplementation improves iron status and reduces morbidity in children with or without upper respiratory tract infections: a randomized controlled study in Colombo, Sri Lanka. American Journal for Clinical Nutrition 77, 234–41. https://doi.org/10.1093/ajcn/77.1.234

de Souza Rita Adriana Gomes, Mediano Mauro Felippe Felix, Souza Amanda de Moura, Sichieri Rosely, 2013. Reducing the use of sugar in public schools: a randomized cluster trial. Revista de saude publica 47, 1–8. https://doi.org/10.1590/S0034-8910.2013047002988

de Villiers Anniza, Steyn Nelia, Draper Catherine E, Hill Jillian, Gwebushe Nomonde, Lambert Estelle V, Lombard Carl, 2016. Primary school children's nutrition knowledge, self-efficacy, and behavior, after a three-year healthy lifestyle intervention (healthkick). Ethnicity & Disease 26, 171–180. https://doi.org/10.18865/ed.26.2.171

de-Brauw A, Gilligan D, Low J W, 2017. Introducing orange sweet potato: tracing the evolution of evidence on its effectiveness. African Journal of Food, Agriculture, Nutrition and Development. African Journal of Food, Agriculture, Nutrition and Development 17, 12106–12115. https://doi.org/10.18697/ajfand.78.HarvestPlus15

de-Brauw A, Kramer B, Malapit H, Martinez E, Murphy M, 2018. Impact Evaluation Associated with the Bangladesh AVC Project. International Food Policy Research Institute (IFPRI).

Dehdari Tahereh, Rahimi Tahereh, Aryaeian Naheed, Gohari Mahmood Reza, 2013. Effect of nutrition education intervention based on Pender's Health Promotion Model in improving the frequency and nutrient intake of breakfast consumption among female Iranian students. Public Health Nutrition 17, 657–666. https://doi.org/10.1017/S1368980013000049

Dehdari Tahereh, Yekehfallah Fereshteh, Rahimzadeh Mitra, Aryaeian Naheed, Rahimi Tahereh, 2016. Dairy Foods Intake among Female Iranian Students: A Nutrition Education Intervention Using a Health Promotion Model. Global journal of health science 8, 54893. https://doi.org/10.5539/gjhs.v8n10p192

Deininger Klaus, Liu Yanyan, 2009. Longer-Term Economic Impacts of Self-Help Groups in India. World Bank - Policy Research Working Paper.

de-Janvry A, Ritchie E R, Sadoulet E, 2016. Weather Index Insurance and Shock Coping: Evidence from Mexico's CADENA Program / Weather Index Insurance and Shock Coping: Evidence from Mexico's CADENA Program. Policy Research Working Papers.

Del Carpio Ximena, Datar Gayatri, Gutierrez Gustavo, Velez-Vega Pamela, 2010. Evaluating the impact on farm households : a multicomponent irrigation program in Peru. World Bank Independent Evaluation Group.

Del Carpio Ximena V, Loayza Norman, Datar Gayatri, 2011. Is Irrigation Rehabilitation Good for Poor Farmers? An Impact Evaluation of a Non-experimental Irrigation Project in Peru. Journal of Agricultural Economics 62, 449–73. https://doi.org/10.1111/j.1477-9552.2011.00295.x

del Ninno Carlo, Dorosh Paul A, 2003. Impacts of In-Kind Transfers on Household Food Consumption: Evidence from Targeted Food Programmes in Bangladesh. Journal of Development Studies 40, 48–78. https://doi.org/10.1080/00220380412331293667

Del Prete Davide, Ghins Leopold, Magrini Emiliano, Pauw Karl, 2019. Land Consolidation, Specialization and Household Diets: Evidence from Rwanda. Food Policy 83, 139–49. https://doi.org/10.1016/j.foodpol.2018.12.007

Delavallade Clara, Dizon Felipe, Hill Ruth Vargas, Petraud Jean Paul, 2015. Managing risk with insurance and savings: experimental evidence for male and female farm managers in West Africa. IFPRI - Discussion Papers.
Delavallade Clara, Godlonton Susan, 2015. The Impact of Inventory Credit on Food Security and Rural Livelihoods in Burkina Faso.
Delgado E G, De Cosso T G, Aragons A C, Pelletier D, Quezada A D, Ramrez S R, 2014. Effect of a food aid program on BMI/A of Mexican children, mediated by diet. FASEB journal 28.
Delimont Nicole M, Vahl Christopher I, Kayanda Rosemary, Msuya Wences, Mulford Michael, Alberghine Paul, Praygod George, Mngara Julius, Alavi Sajid, Lindshield Brian L, 2019. Complementary Feeding of Sorghum-Based and Corn-Based Fortified Blended Foods Results in Similar Iron, Vitamin A, and Anthropometric Outcomes in the MFFAPP Tanzania Efficacy Study. Current developments in nutrition 3. https://doi.org/10.1093/cdn/nzz027
Demilew YM, Alene GD, Belachew T, n.d. Effect of guided counseling on nutritional status of pregnant women in West Gojjam zone, Ethiopia: a cluster-randomized controlled trial. Nutrition Journal 19.
Dercon Stefan, Gilligan Daniel O, Woldehanna Tassew, Hoddinott John, 2009. The Impact of Agricultural Extension and Roads on Poverty and Consumption Growth in Fifteen Ethiopian Villages [electronic resource]. American journal of agricultural economics 91, 1007–1021. https://doi.org/10.1111/j.1467-8276.2009.01325.x
Dermauw V, Dierenfeld E, Du Laing G, Buyse J, Brochier B, Van Gucht S, Duchateau L, Janssens G P J, 2015. Impact of a trace element supplementation programme on health and performance of cross-breed (Bos indicus x Bos taurus) dairy cattle under tropical farming conditions: a double-blinded randomized field trial. Journal of Animal Physiology and Animal Nutrition 99, 531–41. https://doi.org/10.1111/jpn.12209
Deschamps-Laporte Jean-Philippe, 2013. The Impact Of Extension Services On Farming Households In Western Kenya - A Propensity Score Approach 1–43.
Deshmukh U S, Joglekar C V, Lubree H G, Ramdas L V, Bhat D S, Naik S S, Hardikar P S, Raut D A, Konde T B, Wills A K, Jackson A A, Refsum H, Nanivadekar A S, Fall C H, Yajnik C S, 2010. Effect of physiological doses of oral vitamin B12 on plasma homocysteine: a randomized, placebo-controlled, double-blind trial in India. European Journal of Clinical Nutrition 64, 495–502. https://doi.org/10.1038/ejcn.2010.15
Desie Samson, Khalid Mohamed, Kipchumba Elijah, Meftuh Omer, Skovgaard Sara, Sulaiman Munshi, 2018. Impacts of School-Based Nutrition Promotion and Micronutrient Supplementation: Evidence from a field experiment in Somalia. Save the Children.
Deutschmann Joshua W, Duru Maya, Siegal Kim, Tjernstrom Emilia, 2019. Can Smallholder Extension Transform African Agriculture? National Bureau of Economic Research (NBER).
Devakumar Delan, Chaube Shiva Shankar, Wells Jonathan C. K, Saville Naomi M, Ayres Jon G, Manandhar Dharma S, Costello Anthony, Osrin David, 2014. Effect of antenatal multiple micronutrient supplementation on anthropometry and blood pressure in mid-childhood in Nepal: follow-up of a double-blind randomised controlled trial. Lancet Global Health 2, e654–e663. https://doi.org/10.1016/S2214-109X(14)70314-6
Devara R, Deshmukh D, 2017. Impact of nutritious meals on the nutritional status of the tribal students: A comparison between centralized kitchens (Annapurna) and regular kitchens in government tribal residential schools from two Districts of Maharashtra, India. Indian journal of public health 61, 233–238. https://doi.org/10.4103/ijph.IJPH_293_17
Dewbre J, Daidone S, Davis B, Miguelez B, Niang O, Pellerano L, 2015. Lesotho Child Grant Programme and Linking Food Security to Social Protection Programme. https://doi.org/10.13140/RG.2.1.3434.9923
Dewey Kathryn G, Cohen Roberta J, Brown Kenneth H, Rivera Leonardo L, 2001. Effects of exclusive breastfeeding for four versus six months on maternal nutritional status and infant motor development: results of two randomized trials in Honduras. Journal of Nutrition 131, 262–267. https://doi.org/10.1093/jn/131.2.262
Dewi Yulia Lanti Retno, Widardo, Suprapto Bambang, 2013. Iron and iodine supplementation in school children in Ngargoyoso sub-district, Karanganyar regency, Central Java, Indonesia. Journal of Biology, Agriculture and Healthcare 3, 88–92.
Dhauvadel Asmita Shrestha, Wagle Shreejana, Bhandari Tulsi Ram, 2019. Effects of nutrition education program in intention change for consuming healthy food among adolescents: A School-based study. Journal of the Scientific Society 46, 41–45. https://doi.org/10.4103/jss.JSS_22_19
Diagne Abdolaye, Solaroli Laura, Ba Abdolaye, 2017. PAA Africa programme in Senegal's Kédougou region.
Diagne Abdoulaye, Cabral Francois J, 2017. Agricultural Transformation in Senegal: Impacts of an integrated program. PEP-PMMA, Working Papers PMMA.
Diagne Abdoulaye, Lô Mouhamadou Moustapha, Sokhna Ousmane, Diallo Fatoumata L, 2014. Evaluation Of The Impact Of School Canteen Programs On Internal Efficiency Of Schools, Cognitive Acquisitions And Learning Capacities Of Students In Rural Primary Schools In Senegal. Patnership Economic Policy (PEP) Working Paper Series 2013–14, 1–44. https://doi.org/10.2139/ssrn.3167973
Diaw Adama, Diagne Aliou, 2017. Impact evaluation of the Matam development project (PRODAM) II extension in Senegal on household income, food security and employment.
Diaz Juan Jose, Handa Sudhanshu, 2005. An Assessment Of Propensity Score Matching As A Non Experimental Impact Estimator: Evidence From Mexico's PROGRESA Program. Office of Evaluation and Oversight.
Diaz Rolando G, Esparza-Romero Julián, Moya-Camarena Silvia Y, Robles-Sardín Alma E, Valencia Mauro E, 2010. Lifestyle intervention in primary care settings improves obesity parameters among Mexican youth. Journal of the American Dietetic Association 110, 285–290. https://doi.org/10.1016/j.jada.2009.10.042

Díaz-Ramírez G, Jiménez-Cruz A, Bacardí-Gascón M, 2016. Nutritional Intervention to Improve the Quality of Lunchboxes Among Mexican School Children. Journal of Community Health 41, 1217–1222. https://doi.org/10.1007/s10900-016-0207-5

Dibba Lamin, Zeller Manfred, Diagne Aliou, 2017. The impact of new Rice for Africa (NERICA) adoption on household food security and health in the Gambia. Food Security 9, 929–944. https://doi.org/10.1007/s12571-017-0715-x

Diddana T Z, Kelkay G N, Dola A N, Sadore A A, 2018. Effect of nutrition education based on Health Belief Model on nutritional knowledge and dietary practice of pregnant women in Dessie Town, northeast Ethiopia: a cluster randomized control trial. Journal of Nutrition and Metabolism 2018, 10. https://doi.org/10.1155/2018/6731815

DiGirolamo A M, Ramirez-Zea M, Wang M, Flores-Ayala R, Martorell R, Neufeld L M, Ramakrishnan U, Sellen D, Black M M, Stein A D, 2010. Randomized trial of the effect of zinc supplementation on the mental health of school-age children in Guatemala. American Journal of Clinical Nutrition 92, 1241–1250. https://doi.org/10.3945/ajcn.2010.29686

Dijkhuizen M A, Wieringa F T, West C E, Martuti S, Muhilal, 2001. Effects of iron and zinc supplementation in Indonesian infants on micronutrient status and growth. Journal of Nutrition 131, 2860–2865. https://doi.org/10.1093/jn/131.11.2860

Dillon Andrew, 2011. Do Differences in the Scale of Irrigation Projects Generate Different Impacts on Poverty and Production? Journal of Agricultural Economics 62, 474–92. https://doi.org/10.1111/j.1477-9552.2010.00276.x

Dillon Andrew, Arsenault Joanne, Olney Deanna, 2019. Nutrient Production and Micronutrient Gaps: Evidence from an Agriculture-Nutrition Randomized Control Trial. American Journal of Agricultural Economics 101, 732–52. https://doi.org/10.1093/ajae/aay067

Dillon Andrew, Porter Maria, Ouedraogo Aissatou, 2018. Heterogeneous Effects of Adopting Labor-Intensive Fertilizer Application Practices: A Randomized Control Trial in Burkina Faso 274179. https://doi.org/10.22004/ag.econ.274179

Diogenes Maria Eduarda L, Bezerra Flavia F, Rezende Elaine P, Donangelo Carmen M, 2015. Calcium plus vitamin D supplementation during the third trimester of pregnancy in adolescents accustomed to low calcium diets does not affect infant bone mass at early lactation in a randomized controlled trial. Journal of Nutrition 145, 1515–1523. https://doi.org/10.3945/jn.114.208140

Dione Michel Mainack, Dohoo Ian, Ndiwa Nicholas, Poole Jane, Ouma Emily, Amia Winfred Christine, Wieland Barbara, 2020. Impact of participatory training of smallholder pig farmers on knowledge, attitudes and practices regarding biosecurity for the control of African swine fever in Uganda. Transboundary and emerging diseases. https://doi.org/10.1111/tbed.13587

Dixit Priyanka, Gupta Amrita, Dwivedi Laxmi Kant, Coomar Dyuti, 2018. Impact evaluation of Integrated Child Development Services in rural India: propensity score matching analysis. SAGE Open 8. https://doi.org/10.1177/2158244018785713

Doanh Nguyen Khanh, Thuong Nguyen Thi Thu, Heo Yoon, 2018. Impact of conversion to organic tea cultivation on household income in the mountainous areas of Northern Vietnam. Sustainability 10. https://doi.org/10.3390/su10124475

Dodt Regina Cláudia Melo, Joventino Emanuella Silva, Aquino Priscilla Souza, Almeida Paulo César, Ximenes Lorena Barbosa, 2015. An experimental study of an educational intervention to promote maternal self-efficacy in breastfeeding. Revista Latino-Americana de Enfermagem (RLAE) 23, 725–732. https://doi.org/10.1590/0104-1169.0295.2609

Dogan E, Yilmaz G, Caylan N, Turgut M, Gokcay G, Oguz M M, 2018. Baby-led complementary feeding: randomized controlled study. Pediatrics International 60, 1073–1080. https://doi.org/10.1111/ped.13671

Donato Katherine Elizabeth, 2016. Money or Knowledge? Behavioral Aspects of Malnutrition. Clinicaltrials gov.

Dong Ying, Mu Yueying, Abler David, 2019. Do farmer professional cooperatives improve technical efficiency and income? Evidence from small vegetable farms in China. Journal of Agricultural and Applied Economics 51, 591–605. https://doi.org/10.1017/aae.2019.22

Doocy S, Busingye M, Lyles E, Colantouni E, Aidam B, Ebulu G, Savage K, 2020. Cash-based assistance and the nutrition status of pregnant and lactating women in the Somalia food crisis: A comparison of two transfer modalities. PloS one 15. https://doi.org/10.1371/journal.pone.0230989

Doocy S, Emerson J, Colantouni E, Strong J, Amundson-Mansen K, Jenga Jamaa II Study Team, Menakuntuala, 2019. Evaluating interventions to improve child nutrition in Eastern Democratic Republic of Congo. Public health nutrition 22, 3–14. https://doi.org/10.1017/S1368980018002859

Dossa RAM, Ategbo EAD, de Koning FLHA, van Raaij JMA, Hautvast JGAJ, 2001. Impact of iron supplementation and deworming on growth performance in preschool Beninese children. European Journal of Clinical Nutritio 55, 223–228.

Du Xueqin, Zhu Kun, Trube Angelika, Zhang Qian, Ma Guansheng, Hu Xiaoqi, Fraser David R, Greenfield Heather, 2004. School-milk intervention trial enhances growth and bone mineral accretion in Chinese girls aged 10–12 years in Beijing. British Journal of Nutrition 92, 159–168. https://doi.org/10.1079/BJN20041118

Dube Laurette, McRae Cameron, Wu Yun-Hsuan, Ghosh Samik, Allen Summer, Ross Daniel, Raya Saibal, Joshic Pramod K, McDermottd John, Jha Srivardhini, Moore Spencer, 2020. Impact of the eKutir ICT-Enabled Social Enterprise and Its Distributed Micro-entrepreneur Strategy on Fruit and Vegetable Consumption: A Quasi-experimental Study in Rural and Urban Communities in Odisha, India. Food Policy 90. https://doi.org/10.1016/j.foodpol.2019.101787

Duggan C, Penny M E, Hibberd P, Gil A, Huapaya A, Cooper A, Coletta F, Emenhiser C, Kleinman R E, 2003. Oligofructose-supplemented infant cereal: 2 randomized, blinded, community-based trials in Peruvian infants. American Journal of Clinical Nutrition 77, 937–942.

Duggan Christopher, Srinivasan Krishnamachari, Thomas Tinku, Samuel Tinu, Rajendran Ramya, Muthayya Sumithra, Finkelstein Julia L, Lukose Ammu, Fawzi Wafaie, Allen Lindsay H, Bosch Ronald J, Kurpad Anura V, 2014. Vitamin B-12 supplementation during pregnancy and early lactation increases maternal, breast milk, and infant measures of vitamin B-12 status. Journal of Nutrition 144, 758–764. https://doi.org/10.3945/jn.113.187278

Dukhi N, Sartorius B, Taylor M, 2020. A behavioural change intervention study for the prevention of childhood obesity in South Africa: protocol for a randomized controlled trial. BMC Public Health 20, 179. https://doi.org/10.1186/s12889-020-8272-1

Dumas Sarah E, Lewis Dale, Travis Alexander J, 2018. Small-scale egg production centres increase children's egg consumption in rural Zambia. Maternal & child nutrition 14 Suppl 3, e12662. https://doi.org/10.1111/mcn.12662

Dunker K L L, Claudino A M, 2018. Preventing weight-related problems among adolescent girls: a cluster randomized trial comparing the Brazilian 'New Moves' program versus observation. Obesity research & clinical practice 12, 102-115. https://doi.org/10.1016/j.orcp.2017.07.004

Dutra-de-Oliveira Jose Eduardo, de Almeida Carlos Alberto Nogueira, 2002. Domestic drinking water--an effective way to prevent anemia among low socioeconomic families in Brazil. Food and Nutrition Bulletin 23, 213–216.

Dutta Ambarish, Srinivas Nallala, Rout Sarit Kumar, Pradhan Ashirbad, Sundari Shyama, 2019. Assessment of fortification of Mid-Day Meal Programme in Dhenkanal, Odisha. WFP, Public Health Foundation of India (PHFI)/ Indian Institute of Public Health, Bhubaneswar (IIPH). World Food Program.

Dutta Arijita, Ghosh Smritikana, 2016. Impact Of Integrated Child Development Scheme On Child Malnutrition In West Bengal, India. Maternal and Child Nutrition 13. https://doi.org/10.1111/mcn.12385

Duy Nguyen Ngoc, Flaaten Ola, 2016. Profitability Effects and Fishery Subsidies: Average Treatment Effects Based on Propensity Scores. Marine Resource Economics 31, 373–402. https://doi.org/10.1086/687930

Dzanku F M, Osei R D, 2018. Impact of pre– and post-harvest training reminders on crop losses and food poverty in Mali. Presented at the 30th international conference of agricultural economists, International Association of Agricultural Economists.

Ebata Ayako, Huettel Silke, 2019. The Effect of Value Chain Interventions for Staple Crops: Evidence from Small-Scale Farmers in Nicaragua. Journal of Development Studies 55, 581–596. https://doi.org/10.1080/00220388.2017.1408794

Ebrahimi S, Pormahmodi A, Kamkar A, 2006. Study of zinc supplementation on growth of schoolchildren in Yasuj, Southwest of Iran. Pakistan Journal of Nutrition 5, 341–342.

Effendy Devi S, Wirjatmadi Bambang, Adriani Merryana, Tosepu Ramadhan, 2015. The influence of supplementary feeding by local food and 123 milk toward increasing the nutritional status of 12-24 months children with undernutrition status in southeast Sulawesi province, Indonesia. International Journal of Research in Medical Sciences 3, 2704–2710. https://doi.org/10.18203/2320-6012.ijrms20150818

Egbi Godfred, Ayi Irene, Saalia Firibu Kwesi, Zotor Francis, Adom Theodosia, Harrison Eric, Ahorlu Collins K, Steiner-Asiedu Matilda, 2015. Impact of Cowpea-Based Food Containing Fish Meal Served With Vitamin C-Rich Drink on Iron Stores and Hemoglobin Concentrations in Ghanaian Schoolchildren in a Malaria Endemic Area. Food and nutrition bulletin 36, 264–75. https://doi.org/10.1177/0379572115596253

Egziabher Kidanemariam G, Mathijs Erik, Deckers Jozef A, Gebrehiwot Kindeya, Bauer Hans, Maertens Miet, 2013. The Economic Impact of a New Rural Extension Approach in Northern Ethiopia 2013/2.

Ehiakpor Dennis S, Danso-Abbeam Gideon, Dagunga Gilbert, Ayambila Sylvester N, 2019. Impact of Zai technology on farmers' welfare: Evidence from northern Ghana. Technology in Society 59. https://doi.org/10.1016/j.techsoc.2019.101189

Eilander Ans, Funke Olumakaiye M, Moretti Diego, Zimmermann Michael B, Owojuyigbe Temilola O, Blonk Cor, Murray Peter, Duchateau Guus S, 2019. High Bioavailability from Ferric Pyrophosphate-Fortified Bouillon Cubes in Meals is Not Increased by Sodium Pyrophosphate: a Stable Iron Isotope Study in Young Nigerian Women. Journal of Nutrition 149, 723–729. https://doi.org/10.1093/jn/nxz003

Ek A, Nystrom C D, Chirita-Emandi A, Tur J A, Nordin K, Bouzas C, Argelich E, Martinez J A, Frost G, Garcia-Perez I, Saez M, Paul C, Lof M, Nowicka P, 2019. A randomized controlled trial for overweight and obesity in preschoolers: the More and Less Europe study - an intervention within the STOP project. BMC Public Health 19. https://doi.org/10.1186/s12889-019-7161-y

Ekbote V H, Khadilkar A V, Chiplonkar S A, Hanumante N M, Khadilkar V V, Mughal M Z, 2011. A pilot randomized controlled trial of oral calcium and vitamin D supplementation using fortified laddoos in underprivileged Indian toddlers. European Journal of Clinical Nutrition 65, 440-446. https://doi.org/10.1038/ejcn.2010.288

Ekstrom E C, Lindstrom E, Rubhana R, El-Arifeen S, Basu S, Brismar K, Selling K, Persson L A, 2016. Effects of prenatal micronutrient and early food supplementation on metabolic status of the offspring at 4.5 years of age. The MINIMat randomized trial in rural Bangladesh. International Journal of Epidemiology 45, 1656–1667. https://doi.org/10.1093/ije/dyw199

Ekstrom Eva Charlotte, Hyder S M Ziauddin, Chowdhury A Mushtaque, Chowdhury Sadia A, Lönnerdal Bo, Habicht Jean-Pierre, Persson Lars Ake, 2002. Efficacy and trial effectiveness of weekly and daily iron supplementation among pregnant women in rural Bangladesh: disentangling the issues. American Journal of Clinical Nutrition 76, 1392–1400. https://doi.org/10.1093/ajcn/76.6.1392

Ekvall H, Premji Z, Bjorkman A, 2000. Micronutrient and iron supplementation and effective anti-malarial treatment synergistically improve childhood anaemia. Tropical Medicine and International Health 5, 696–705. https://doi.org/10.1046/j.1365-3156.2000.00626.x

El-Harake Marwa D, Kharroubi Samer, Hamadeh Shadi K, Jomaa Lamis, 2018. Impact of a pilot school-based nutrition intervention on dietary knowledge, attitudes, behavior and nutritional status of Syrian refugee children in the Bekaa, Lebanon. Nutrients 10, 913. https://doi.org/10.3390/nu10070913

El-Sayed H, Martines J, Rakha M, Zekry O, Abdel-Hak M, Abbas H, 2014. The effectiveness of the WHO training course on complementary feeding counseling in a primary care setting, Ismailia, Egypt. Journal of the Egyptian Public Health Association 89, 1-8. https://doi.org/10.1097/01.EPX.0000443990.46047.a6

Emerick K, Dar M H, de Janvry A, Sadoulet E, 2017. Enhancing the diffusion of information about agricultural technology.

Emran Shahe M, Robano Virginia, Smith Stephen C, 2012. Assessing The Frontiers Of Ultra-Poverty Reduction: Evidence From CFPR/TUP, An Innovative Program In Bangladesh. Institute for International Economic Policy Working Paper Series 2009–06, Not applicable. https://doi.org/10.2139/ssrn.1354158

Eneroth H, El Arifeen S, Persson L A, Lonnerdal B, Hossain M B, Stephensen C B, Ekstrom E C, 2010. Maternal multiple micronutrient supplementation has limited impact on micronutrient status of Bangladeshi infants compared with standard iron and folic acid supplementation. The Journal of nutrition 140, 618–24. https://doi.org/10.3945/jn.109.111740

Engstrom Elyne Montenegro, de Castro Inês Rugani Ribeiro, Portela Margareth, Cardoso Letícia Oliveira, Monteiro Carlos Augusto, 2008. Effectiveness of daily and weekly iron supplementation in the prevention of anemia in infants 42, 786–795. https://doi.org/10.1590/S0034-89102008005000043

Erismann Severine, Diagbouga Serge, Schindler Christian, Odermatt Peter, Knoblauch Astrid M, Gerold Jana, Leuenberger Andrea, Shrestha Akina, Tarnagda Grissoum, Utzinger Jurg, Cissé Guéladio, 2017. School Children's Intestinal Parasite and Nutritional Status One Year after Complementary School Garden, Nutrition, Water, Sanitation, and Hygiene Interventions in Burkina Faso. The American journal of tropical medicine and hygiene 97, 904–913. https://doi.org/10.4269/ajtmh.16-0964

Ersado Lire, Amacher Gregory, Alwang Jeffrey, 2004. Productivity and Land Enhancing Technologies in Northern Ethiopia: Health, Public Investments, and Sequential Adoption. American Journal of Agricultural Economics 86, 321–331. https://doi.org/10.1111/j.0092-5853.2004.00581.x

Esamai Fabian, Liechty Edward, Ikemeri Justus, Westcott Jamie, Kemp Jennifer, Culbertson Diana, Miller Leland V, Hambidge K Michael, Krebs Nancy F, 2014. Zinc Absorption from Micronutrient Powder Is Low but Is not Affected by Iron in Kenyan Infants. Nutrients 6, 5636–5651. https://doi.org/10.3390/nu6125636

Essama-Nssah B, Ezemenari Kene, Korman Vijdan, 2008. Reading tealeaves on the potential impact of the privatization of tea estates in Rwanda. Policy Research Working Paper Series.

Etheredge Analee J, Premji Zul, Gunaratna Nilupa S, Abioye Ajibola I, Aboud Said, Duggan Christopher, Mongi Robert, Meloney Laura, Spiegelman Donna, Roberts Drucilla, Hamer Davidson H, Fawzi Wafaie W, 2015. Iron Supplementation in Iron-Replete and Nonanemic Pregnant Women in Tanzania: A Randomized Clinical Trial. JAMA Pediatrics 169, 947–955. https://doi.org/10.1001/jamapediatrics.2015.1480

Eugenius P Ganap, 2020. Protein Supplementation of Snakehead Fish Cookies on Pregnant Women.

Eusebio G S, Maia A G, Silveira R L F, 2016. Impact of microcredit on small-farm agricultural production: evidence from Brazil 24. https://doi.org/10.22004/AG.ECON.235682

Faber M, Kvalsvig J D, Lombard C J, Benadé A J S, 2005. Effect of a fortified maize-meal porridge on anemia, micronutrient status, and motor development of infants. American Journal of Clinical Nutrition 82, 1032–1039.

Fafchamps Marcel, Minten Bart, 2010. The Impact of SMS-Based Agricultural Information on Economic Benefits to Farmers in India. Abdul Latif Jameel Poverty Action Lab (J-PAL).

Fahmida Umi, Kolopaking Risatianti, Santika Otte, Sriani Sriani, Umar Jahja, Htet Min Kyaw, Ferguson Elaine, 2015. Effectiveness in improving knowledge, practices, and intakes of "key problem nutrients" of a complementary feeding intervention developed by using linear programming: Experience in Lombok, Indonesia. American Journal of Clinical Nutrition 101, 455–461. https://doi.org/10.3945/ajcn.114.087775

Fahmida Umi, Rumawas Johanna S P, Utomo Budi, Patmonodewo Soemiarti, Schultink Werner, 2007. Zinc-iron, but not zinc-alone supplementation, increased linear growth of stunted infants with low haemoglobin. Asia Pacific Journal of Clinical Nutrition 16, 301–309.

Fakhar G, 2018. Effectiveness of Multiple Micro-nutrient Fortified Fudge on Nutritional Status of 3-5 Years of Age Children. Cochrane Central Register of Controlled Trials 2018.

Falahi Ebrahim, Akbari Soheila, Ebrahimzade Farzad, Gargari Bahram Pourghasem, 2011. Impact of prophylactic iron supplementation in healthy pregnant women on maternal iron status and birth outcome. Food and nutrition bulletin 32, 213–217. https://doi.org/10.1177/156482651103200305

Fançony Cláudia, Soares Ânia, Lavinha João, Barros Henrique, Brito Miguel, 2019. Efficacy of Nutrition and WASH/Malaria Educational Community-Based Interventions in Reducing Anemia in Preschool Children from Bengo, Angola: Study Protocol of a Randomized Controlled Trial. http://www.who.int/trialsearch/Trial2.aspx?TrialID=ISRCTN18101157 16. https://doi.org/10.3390/ijerph16030466

Fang W, 2019. Analysis on the incentive effect of abolishment of agricultural tax in China staple grain production input. Presented at the IOP Conference Series: Earth and Environmental Science. https://doi.org/10.1088/1755-1315/346/1/012086

Farshad Tami, Ragi Darwish, Said M A, Shadi Hamadeh, 2005. Sustainable improvement of small ruminant production in the semi-arid areas of Lebanon. Journal of Sustainable Agriculture 25, 103–115. https://doi.org/10.1300/J064v25n03_07

Farshbaf-Khalili Azizeh, Mohamad-Alizadeh Sakineh, Darabi Masoud, Hematzadeh Shahla, Mehdizadeh Amir, Shaaker Maghsod, Ostadrahimi Alireza, 2017. The effect of fish oil supplementation on serum phospholipid fatty acids profile during pregnancy: a double blind randomized controlled trial. Women & Health 57, 137–153. https://doi.org/10.1080/03630242.2016.1159269

Faruk Ahmed, Moududur Rahman Khan, Jackson A A, 2001. Concomitant supplemental vitamin A enhances the response to weekly supplemental iron and folic acid in anemic teenagers in urban Bangladesh. American Journal of Clinical Nutrition 74, 108–115. https://doi.org/10.1093/ajcn/74.1.108

Farzianpour Fereshteh, Khaniki Gholamreza Jahed, Batebi Farjad, Yunesian Masood, 2012. Compare the effects of two educational methods on the health principles knowledge of employees in food preparation. American Journal of Applied Sciences 9, 1678–1683. https://doi.org/10.3844/ajassp.2012.1678.1683

Fathi Azam, Sharifirad Gholamreza, Gharlipour Zabihollah, Hakimelahi Javad, Mohebi Siamak, 2017. Effects of a nutrition education intervention designed based on the health belief model (HBM) on reducing the consumption of unhealthy snacks in the sixth grade primary school girls. International Journal of Pediatrics 5, 4361–4370. https://doi.org/10.22038/ijp.2016.7567

Feder Gershon, Murgai Rinku, Quizon Jaime B, 2003. Sending farmers back to school: the impact of farmer field schools in Indonesia. Review of Agricultural Economics 26, 45–62. https://doi.org/10.1111/j.1467-9353.2003.00161.x

Fenn B, Colbourn T, Dolan C, Pietzsch S, Sangrasi M, Shoham J, 2017. Impact evaluation of different cash-based intervention modalities on child and maternal nutritional status in Sindh Province, Pakistan, at 6 mo and at 1 y: a cluster randomised controlled trial. PLoS medicine 14, e1002305. https://doi.org/10.1371/journal.pmed.1002305

Fenn Bridget, Bulti Assaye T, Nduna Themba, Duffield Arabella, Watson Fiona, 2012. An evaluation of an operations research project to reduce childhood stunting in a food-insecure area in Ethiopia. Public Health Nutrition 15, 1746–1754. https://doi.org/10.1017/S1368980012001115

Fernald L C. H, Galasso E, Qamruddin J, Ranaivoson C, Ratsifandrihamanana L, Stewart C P, Weber A M, 2016. A cluster-randomized, controlled trial of nutritional supplementation and promotion of responsive parenting in Madagascar: the MAHAY study design and rationale. BMC Public Health 16. https://doi.org/10.1186/s12889-016-3097-7

Fernald L, Gertler P, Neufeld L, 2010. 10-year effect of Oportunidades, Mexico's conditional cash transfer programme, on child growth, cognition, language, and behaviour: a longitudinal follow-up study. Lancet 374, 1997–2005. https://doi.org/10.1016/S0140-6736(09)61676-7

Fernandes Meenakshi, Nelson Gloria, Aurino Elisabetta, Gelli Aulo, 2017. A free lunch or a walk back home? The school food environment and dietary behaviours among children and adolescents in Ghana. Food Security 9, 1073–1090. https://doi.org/10.1007/s12571-017-0712-0

Fernandes Taciana F. dos S, Figueiroa José N, de Arruda Ilma K. G, Diniz Alcides da S, 2012. Effect on infant illness of maternal supplementation with 400000 IU vs 200000 IU of vitamin A. Pediatrics 129, e960–e966. https://doi.org/10.1542/peds.2011-0119

Fernandez-Rao Sylvia, Hurley Kristen M, Nair Krishnapillai M, Balakrishna Nagalla, Radhakrishna Kankipati V, Ravinder Punjal, Tilton Nicholas, Harding Kimberly B, Reinhart Greg A, Black Maureen M, 2014. Integrating nutrition and early child-development interventions among infants and preschoolers in rural India. Annals of the New York Academy of Science 1308, 218–231. https://doi.org/10.1111/nyas.12278

Ferrario Marcela Nogueira, 2014. The Impacts On Family Consumption Of The Bolsa Família Subsidy Programme. Cepal Review 147–163.

Ferreira C M, Goldszmidt R, Andrade E B, 2019. The short- and long-term impact of an incentive intervention on healthier eating: a quasi-experiment in primary- and secondary-school cafeterias in Brazil. Public Health Nutrition 22, 1675–1685. https://doi.org/10.1017/S1368980019000223

Ferreira V R, Sangalli C N, Leffa P S, Rauber F, Vitolo M R, 2019. The impact of a primary health care intervention on infant feeding practices: a cluster randomised controlled trial in Brazil. Journal of Human Nutrition and Dietetics 32, 21–30.

Fewtrell M, Kennedy K, Lukoyanova O, Wei Zhuang, Potak D, Borovik T, Namazova-Baranova L, Schanler R, 2019. Short-term efficacy of two breast pumps and impact on breastfeeding outcomes at 6 months in exclusively breastfeeding mothers: a randomised trial. Maternal and Child Nutrition 15, e12779. https://doi.org/10.1111/mcn.12779

Filho V C B, Bandeira A D S, Minatto G, Linard J G, Silva J A D, Costa R M D, Manta S W, Sá S A M, Matias T S, Silva K S D, 2019. Effect of a Multicomponent Intervention on Lifestyle Factors among Brazilian Adolescents from Low Human Development Index Areas: a Cluster-Randomized Controlled Trial. International journal of environmental research and public health 16, 12. https://doi.org/10.3390/ijerph16020267

Filipski Mateusz, Taylor J Edward, Abegaz Getachew Ahmed, Ferede Tadele, Taffesse Alemayehu Seyoum, Diao Xinshen, 2017. General Equilibrium Impact Assessment Of The Productive Safety Net Program In Ethiopia, 3ie Series Report. 3ie Series Report.

Filteau Suzanne, Baisley Kathy, Chisenga Molly, Kasonka Lackson, Gibson Rosalind S, CIGNIS Study Team, 2011. Provision of micronutrient-fortified food from 6 months of age does not permit HIV-exposed uninfected Zambian children to catch up in growth to HIV-unexposed children: a randomized controlled trial. Journal of acquired immune deficiency syndromes 56, 166–75. https://doi.org/10.1097/QAI.0b013e318201f6c9

Fink G, Jack K, Masiye F, 2014. Seasonal Credit Constraints and Agricultural Labor Supply: Evidence from Zambia. National Bureau of Economic Research. https://doi.org/10.3386/w20218

Fink G, Levenson R, Tembo S, Rockers P C, 2017. Home- and community-based growth monitoring to reduce early life growth faltering: an open-label, cluster-randomized controlled trial. American Journal of Clinical Nutrition 106, 1070–1077. https://doi.org/10.3945/ajcn.117.157545

Fink Gunther, Jack B Kelsey, Masiye Felix, 2018. Seasonal Liquidity, Rural Labor Markets and Agricultural Production. National Bureau of Economic Research 24564. https://doi.org/10.3386/w24564

Finkelstein Julia L, Mehta Saurabh, Udipi Shobha A, Ghugre Padmini S, Luna Sarah V, Wenger Michael J, Murray-Kolb Laura E, Przybyszewski Eric M, Haas Jere D, 2015. A Randomized Trial of Iron-Biofortified Pearl Millet in School Children in India. Journal of Nutrition 145, 1576–1581. https://doi.org/10.3945/jn.114.208009

Fiorella Kathryn J, Gavenus Erika R, Milner Erin M, Moore Megan, Wilson-Anumudu Folasade, Adhiambo Florida, Mattah Brian, Bukusi Elizabeth, Fernald Lia C. H, 2019. Evaluation of a social network intervention on child feeding practices and caregiver knowledge. Maternal and Child Nutrition 15. https://doi.org/10.1111/mcn.12782

Fisher Jane, Tran Thach Duc, 2018. Addressing multiple modifiable risks through structured community-based Learning Clubs to improve maternal and infant health and infant development in rural Vietnam: protocol for a parallel group cluster randomised controlled trial. https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?id=371066.

Fishman Ram, Kishore Avinash, Rothler Yoav, Ward Patrick S, Jha Shankar, Singh R K. P, 2016. Can information help reduce imbalanced application of fertilizers in India? Experimental evidence from Bihar.

Fishman Ram, Smith Stephen C, Bobic Vida, Sulaiman Munshi, 2019. Can Agricultural Extension and Input Support Be Discontinued? Evidence from a Randomized Phaseout in Uganda IZA DP No. 12476.

Fitriana N, Madanijah S, Ekayanti I, 2015. Analysis of media use in the nutrition education on knowledge, attitude and practice of the breakfast habits on elementary school students. Pakistan Journal of Nutrition 14, 335–345. https://doi.org/10.3923/pjn.2015.335.345

Fitzsimons Emla, Malde Bansi, Mesnard Alice, Vera-Hernandez Marcos, 2016. Nutrition, information and household behavior: experimental evidence from Malawi. Journal of Development Economics 122, 113–126. https://doi.org/10.1016/j.jdeveco.2016.05.002

Flax V, 2018. Enhancing Milk Consumption for Improved Nutrition in Rwanda. https://clinicaltrials.gov/show/NCT03455647 2018.

Flax V L, Siega-Riz A M, Reinhart G A, Bentley M E, 2015. Provision of lipid-based nutrient supplements to Honduran children increases their dietary macro- and micronutrient intake without displacing other foods. Maternal & Child Nutrition 11, 203–213.

Flax Valerie L, Negerie Mekebeb, Ibrahim Alawiyatu Usman, Leatherman Sheila, Daza Eric J, Bentley Margaret E, 2014. Integrating Group Counseling, Cell Phone Messaging, And Participant-Generated Songs And Dramas Into A Microcredit Program Increases Nigerian Women S Adherence To International Breastfeeding Recommendations. Journal of Nutrition 144, 1120–1124. https://doi.org/10.3945/jn.113.190124

Fleddermann Manja, Demmelmair Hans, Grote Veit, Nikolic Tatjana, Trisic Branka, Koletzko Berthold, 2014. Infant formula composition affects energetic efficiency for growth: The BeMIM study, a randomized controlled trial. Clinical nutrition 33, 588–595.

Flores M L, Neufeld L M, Gonzalez-Cossio T, Rivera J, Martorell R, Ramakrishnan U, 2007. Multiple micronutrient supplementation and dietary energy intake in pregnant women. Salud Publica de Mexico 49, 190–198.

Flores-Aldana Mario, 2018. Effect of Vitamin D3 Supplementation in Children From 12 to 30 Months of Age.

Fonseca L G, Bertolin M N. T, Gubert M B, Da Silva E F, 2019. Effects of a nutritional intervention using pictorial representations for promoting knowledge and practices of healthy eating among Brazilian adolescents. PloS one 14, e0213277. https://doi.org/10.1371/journal.pone.0213277

Ford N D, Ruth L J, Ngalombi S, Lubowa A, Halati S, Ahimbisibwe M, Baingana R, Whitehead R D, Mapango C, Jefferds M E, 2020. An Integrated Infant and Young Child Feeding and Micronutrient Powder Intervention Does Not Affect Anemia, Iron Status, or Vitamin A Status among Children Aged 12-23 Months in Eastern Uganda. The Journal of nutrition 150, 938–944. https://doi.org/10.1093/jn/nxz314

Forde Ian, Chandola Tarani, Garcia Sandra, Marmot Michael G, Attanasio Orazio, 2012. The impact of cash transfers to poor women in Colombia on BMI and obesity: prospective cohort study. International Journal of Obesity 36, 1209–1214. https://doi.org/10.1038/ijo.2011.234

Fottrell E, Azad K, Kuddus A, Younes L, Shaha S, Nahar T, Aumon B H, Hossen M, Beard J, Hossain T, Pulkki-Brannstrom A M, Skordis-Worrall J, Prost A, Costello A, Houweling T A J, 2013. The effect of increased coverage of participatory women's groups on neonatal mortality in Bangladesh: a cluster randomized trial. JAMA Pediatrics 167, 816–825. https://doi.org/10.1001/jamapediatrics.2013.2534

Fotu K F, Millar L, Mavoa H, Kremer P, Moodie M, Snowdon W, Utter J, Vivili P, Schultz J T, Malakellis M, McCabe M P, Roberts G, Swinburn B A, 2011. Outcome results for the Ma'alahi Youth Project, a Tongan community-based obesity prevention programme for adolescents. Obesity Reviews. Special Issue: The Pacific Obesity Prevention In Communities Project (OPIC). 12, 41–50. https://doi.org/10.1111/j.1467-789X.2011.00923.x

Francesconi Gian Nicola, Ruben Ruerd, 2012. The Hidden Impact Of Cooperative Membership On Quality Management: A Case Study From The Dairy Belt Of Addis Ababa. Journal of Entrepreneurial and Organizational Diversity 1, 85–103.

Friedrich Roberta R, Caetano Lisandrea C, Schiffner Mariana D, Wagner Mário B, Schuch Ilaine, 2015. Design, randomization and methodology of the TriAtiva Program to reduce obesity in school children in Southern Brazil. BMC public health 15, 363. https://doi.org/10.1186/s12889-015-1727-0

Friis Henrik, Gomo Exnevia, Nyazema Norman, Ndhlovu Patricia, Krarup Henrik, Kaestel Pernille, Michaelsen Kim F, 2004. Effect of multimicronutrient supplementation on gestational length and birth size: a randomized, placebo-controlled, double-blind effectiveness trial in Zimbabwe. American Journal of Clinical nutrition 80, 178–184. https://doi.org/10.1093/ajcn/80.1.178

Frölich M et al, 2019. Evaluation of the Satellite Index Insurance for Pastoralists in Ethiopia (SIIPE) Programme: Impact Evaluation of the SIIPE Pilot (2017 – 2019). World Food Programme Decentralized Evaluation.

Frongillo Ed, Sen Aman, 2019. SMS Messages to Increase Child Egg Consumption, a C-rct in Nepal. https://clinicaltrials.gov/show/NCT03926689.

Frongillo Edward A, Nguyen Phuong H, Saha Kuntal K, Sanghvi Tina, Afsana Kaosar, Haque Raisul, Baker Jean, Ruel Marie T, Rawat Rahul, Menon Purnima, 2017. Large-Scale Behavior-Change Initiative for Infant and Young Child Feeding Advanced Language and Motor Development in a Cluster-Randomized Program Evaluation in Bangladesh. The Journal of nutrition 147, 256–263. https://doi.org/10.3945/jn.116.240861

Frongillo Edward A, Nguyen Phuong H, Sanghvi Tina, Mahmud Zeba, Aktar Bachera, Alayon Silvia, Menon Purnima, 2019. Nutrition Interventions Integrated into an Existing Maternal, Neonatal, and Child Health Program Reduce Food Insecurity Among Recently Delivered and Pregnant Women in Bangladesh. The Journal of nutrition 149, 159–166. https://doi.org/10.1093/jn/nxy249

Fuleihan G E, Nabulsi M, Tamim H, Maalouf J, Salamoun M, Khalife H, Choucair M, Arabi A, Vieth R, 2006. Effect of vitamin D replacement on musculoskeletal parameters in school children: a randomized controlled trial. Journal of Clinical Endocrinology & Metabolism 91, 405–412. https://doi.org/10.1210/jc.2005-1436

Fuller Robert, 2013. Effectiveness Review: Food Security and Livelihoods Support among Fishers and Fish Processors, Democratic Republic of Congo.

Fuller Robert, 2012. Effectiveness Review: Livestock Commercialisation for Pastoralist Communities in North Dakoro, Niger.

Funsani William, Rickaille Michael, Zhu Jing, Tian Xu, Chibomba Velindah, Avea Aniah Dominic, Balezentis Tomas, 2016. Farmer input support programme and household income: Lessons from Zambia's southern province. Transformations in Business and Economics 15, 396–412.

G Rauniyar, 2012. Shallow Tubewell irrigation in Nepal. Impacts of the community groundwater irrigation sector project. Asian Development Bank.

Gabida M, Chemhuru M, Tshimanga M, Gombe N T, Takundwa L, Bangure D, 2015. Effect of distribution of educational material to mothers on duration and severity of diarrhoea and pneumonia, Midlands Province, Zimbabwe: a cluster randomized controlled trial. International Breastfeeding Journal 10, 1–12. https://doi.org/10.1186/s13006-015-0037-6

Gabiola J, Morales D, Quizon O, Cadiz R I, Feliciano K, Ruiz R L, Aguatis C J, Mararac T, Rojina J, Garcia A, Hedlin H, Cullen M, Palaniappan L, 2020. The EffectiveNess of LIfestyle with Diet and Physical Activity Education ProGram Among Prehypertensives and Stage 1 HyperTENsives in an Urban Community Setting (ENLIGHTEN) Study. Journal of Community Health 45, 478–487. https://doi.org/10.1007/s10900-019-00764-0

Gaddis Isis, Pieters Janneke, 2014. The Gendered Labor Market Impacts of Trade Liberalization : Evidence from Brazil. Policy Research Working Paper 7095.

Gahagan S, Yu S, Kaciroti N, Castillo M, Lozoff B, 2009. Linear and ponderal growth trajectories in well-nourished, iron-sufficient infants are unimpaired by iron supplementation. The Journal of Nutrition 139, 2106–12. https://doi.org/10.3945/jn.108.100735

Galasso E, Weber A M, Stewart C P, Ratsifandrihamanana L, Fernald L C H, 2019. Effects of nutritional supplementation and home visiting on growth and development in young children in Madagascar: a cluster-randomised controlled trial. Lancet Global Health 7, e1257–e1268. https://doi.org/10.1016/S2214-109X(19)30317-1

Galasso E, Yau J, 2006. Learning through monitoring: lessons from a large-scale nutrition program in Madagascar. World Bank Policy Research Working Paper. https://doi.org/10.1596/1813-9450-4058

Galpin Lauren, Thakwalakwa Chrissie, Phuka John, Ashorn Per, Maleta Ken, Wong William W, Manary Mark J, 2007. Breast milk intake is not reduced more by the introduction of energy dense complementary food than by typical infant porridge. The Journal of nutrition 137, 1828–33. https://doi.org/10.1093/jn/137.7.1828

Ganmaa D, Stuart J J, Sumberzul N, Ninjin B, Giovannucci E, Kleinman K, Holick M F, Willett W C, Frazier L A, Rich-Edwards J W, 2017. Vitamin D supplementation and growth in urban Mongol school children: results from two randomized clinical trials. Plos one 12, e0175237. https://doi.org/10.1371/journal.pone.0175237

Gao YongQing, Huang Yuee, Zhang YongJun, Liu FengQiong, Feng Xin [Feng, X C], Liu TingTing, Li ChangWei, Lin DongDong, Mu YongPing, Tarver S L, Wang Mao, Sun WenJie, 2014. Evaluation of fast food behavior in pre-school children and parents following a one-year intervention with nutrition education. International Journal of Environmental Research and Public Health 11, 6780–6790. https://doi.org/10.3390/ijerph110706780

Garbero A, Chichaibelu B B, 2018. IFAD IMPACT ASSESSMENT - Agricultural sector development programme –livestock (ASDP-L) and the agriculture service support programme (ASSP): Tanzania. IFAD Impact Assessment Series. https://doi.org/10.22004/ag.econ.288463

Garcia-Guerra A, Neufeld L M, Hernandez-Cordero S, Rivera J, Martorell R, Ramakrishnan U, 2009. Prenatal multiple micronutrient supplementation impact on biochemical indicators during pregnancy and postpartum. Salud Publica de Mexico 51, 327–335.

Garcia-Yi Jaqueline, 2014. Organic Coffee Certification in Peru as an Alternative Development-Oriented Drug Control Policy. International Journal of Development Issues 13, 72–92. https://doi.org/10.1108/IJDI-11-2013-0077

Gathani Sachin, Gomez Maria Paula, Sabates Ricardo, Stoelinga Dimitri, 2015. The effect of monitoring: How data collection type and frequency boosts participation and the adoption of best practices in a coffee Agronomy Training Program in Rwanda. Evaluation Quarterly 39, 555–586. https://doi.org/10.1177/0193841X16633584

Gaurav Sarthak, Cole Shawn, Tobacman Jeremy, 2011. Marketing Complex Financial Products in Emerging Markets: Evidence from Rainfall Insurance in India (No. 0022–2437). International labour office Geneva.

Gautam Shriniwas, Md Nasir, Uddin, Pepijn Schreinemachers, Ramasamy Srinivasan, 2017. Impact of training vegetable farmers in Bangladesh in integrated pest management (IPM). Crop protection 102, 161–169. https://doi.org/10.1016/j.cropro.2017.08.022

Gebrehiwot Kidanemariam Gebregziabher, 2015. The Impact of Agricultural Extension on Households' Welfare in Ethiopia. International Journal of Social Economics 42, 733–48. https://doi.org/10.1108/IJSE-05-2014-0088

Gebrehiwot Tagel, Veen Anne Van Der, 2015. Estimating The Impact Of A Food Security Program By Propensity-Score Matching. Journal of Development and Agricultural Economics 7, 38–47. https://doi.org/10.5897/JDAE2014.0585

Gebremariam Abebe, Alemayehu Argaw, Huybregts Lieven, Kolsteren Patrick, Gerbaba Mulusew, Demeke Solomon, Grosemans Joep, Tesfay Amanuel, 2014. Integrating Nutrition Education & Household Food Production for Child Nutrition. Clinical trials gov.

Gecaj M, Shahu Ozuni, E, Imami D, Skreli E, Jambor A, 2019. Analysing the impact of subsidies on the albanian agriculture sector. Bulgarian Journal of Agricultural Science 25, 883–890.

Gelli A, Aberman N L, Margolies A, Santacroce M, Baulch B, Chirwa E, 2017a. Lean-Season Food Transfers Affect Children's Diets and Household Food Security: Evidence from a Quasi-Experiment in Malawi. Journal of Nutrition 147, 869–878. https://doi.org/10.3945/jn.116.246652

Gelli A, Becquey E, Ganaba R, Headey D, Hidrobo M, Huybregts L, Verhoef H, Kenfack R, Zongouri S, Guedenet H, 2017b. Improving diets and nutrition through an integrated poultry value chain and nutrition intervention (SELEVER) in Burkina Faso: study protocol for a randomized trial. Trials 18, 412. https://doi.org/10.1186/s13063-017-2156-4

Gelli Aulo, Aurino Elisabetta, Folson Gloria, Arhinful Daniel, Adamba Clement, Osei-Akoto Isaac, Masset Edoardo, Watkins Kristie, Fernandes Meena, Drake Lesley, Alderman Harold, 2019. A School Meals Program Implemented at Scale in Ghana Increases Height-for-Age during Midchildhood in Girls and in Children from Poor Households: A Cluster Randomized Trial. Journal of Nutrition 149, 1434–1442. https://doi.org/10.1093/jn/nxz079

Gelli Aulo, Nguyen Phuong Hong, Santacroce Marco, Twalibu Aisha, Margolies Amy, Katundu Mangani, 2020. A Community-Based Early Childhood Development Center Platform Promoting Diversified Diets and Food Production Increases the Mean Probability of Adequacy of Intake of Preschoolers in Malawi: A Cluster Randomized Trial. Journal of Nutrition 150, 350–355. https://doi.org/10.1093/jn/nxz245

George Owuor, 2009. Is Micro-Finance Achieving Its Goal Among Smallholder Farmers in Africa? Empirical Evidence from Kenya Using Propensity Score Matching. Presented at the XXV11 International Conference of Agricultural Economists, 16-22 August 2009, Beijing, China, International Association of Agricultural Economists.

Gerber Markus, Ayekoe Serge A, Beckmann Johanna, Bonfoh Bassirou, Coulibaly Jean T, Daouda Dao, du Randt Rosa, Finda Lina, Gall Stefanie, Mollel Getrud J, Lang Christin, Long Kurt Z, Ludyga Sebastian, Masanja Honorati, Müller Ivan, Nqweniso Siphesihle, Okumu Fredros, Probst-Hensch Nicole, Pühse Uwe, Steinmann Peter, Traoré Sylvain G, Walter Cheryl, Utzinger Jürg, 2020. Effects of school-based physical activity and multi-micronutrient supplementation intervention on growth, health and well-being of schoolchildren in three African countries: the KaziAfya cluster randomised controlled trial protocol with a 2 Ã— 2 factorial design. Trials 21. https://doi.org/10.1186/s13063-019-3883-5

Gertler Paul J, Boyce Simone E, 2003. An experiment in incentive-based welfare: The impact of PROGRESA on health in Mexico.

Gertler Paul J, Fernald Lia C, 2004. The Medium Term Impact of Oportunidades on Child Development in Rural Areas.

Gertler Paul, Martinez Sebastian, Rubio-Codina Marta, 2012. Investing cash transfers to raise long term living standards. American Economic Journal: Applied Economics 4, 164–192.

Gewa Constance A, Murphy Suzanne P, Weiss Robert E, Neumann C G, 2013. A school-based supplementary food programme in rural Kenya did not reduce children's intake at home. Public Health Nutrition 16, 713–720. https://doi.org/10.1017/S1368980012003266

Geyer Judy, Davis Mikal, Narayan Tulika, 2016. Intracluster correlation coefficients of household economic and agricultural outcomes in Mozambique. Evaluation Quarterly 40, 526–545. https://doi.org/10.1177/0193841X16659834

Ghadirian Mona, Marquis Grace, 2018. Evaluating the Effectiveness of a Participatory Video Nutrition Education Trial on Nutrition Literacy With Adolescent Girls in the Upper Manya Krobo District, Ghana. Clinical trials gov.

Ghaffari Mohtasham, Hatami Hossein, Rakhshanderou Sakineh, Karimi Heshmat, 2017. Effectiveness of snack-centered nutrition education on promoting knowledge, attitude, and nutritional behaviors in elementary students. International Journal of Pediatrics 5, 6495–6502. https://doi.org/10.22038/ijp.2017.24531.2067

Ghaffari Mohtasham, Rakhshanderou Sakineh, Mehrabi Yadollah, Ramezankhani Ali, Shahbazzadegan Bita, 2019. Effect of theory-based environmental-behavioral interventions with student-family-school approach on fruit and vegetable consumption among the adolescents. Crescent Journal of Medical and Biological Sciences 6, 300–308.

Ghaffari Motasham, Tavassoli Elaheh, Esmaillzadeh Ahmad, Hassanzadeh Akbar, 2012. Effect of Health Belief Model based intervention on promoting nutritional behaviors about osteoporosis prevention among students of female middle schools in Isfahan, Iran. Journal of Education and Health Promotion 1. https://doi.org/10.4103/2277-9531.98572

Ghammam R, Maatoug J, Zammit N, Kebaili R, Boughammoura L, Al'Absi M, Lando H, Ghannem H, 2017. Long term effect of a school based intervention to prevent chronic diseases in Tunisia, 2009-2015. African Health Sciences 17, 1137–1148. https://doi.org/10.4314/ahs.v17i4.23

Ghasemi Vida, Kheirkhah Masoomeh, Samani Leila Neisani, Vahedi Mohsen, 2014. The effect of herbal tea containing fennel seed on breast milk sufficiency signs and growth parameters of Iranian infants. Shiraz E Medical Journal 15, 1–5.

Ghattas H, Choufani J, Jamaluddine Z, Masterson A R, Sahyoun N R, 2020. Linking women-led community kitchens to school food programmes: lessons learned from the Healthy Kitchens, Healthy Children intervention in Palestinian refugees in Lebanon. Public Health Nutrition 23, 914–923. https://doi.org/10.1017/S1368980019003161

Ghebru H, Smart J, Mogues T, 2019. Access to markets for smallholder farmers in Alto Molócue and Molumbo, Mozambique: Mid-term impact evaluation of INOVAGRO II. https://doi.org/10.2499/p15738coll2.133449

Gholamreza Sharifi, Reza Hasanizade, Esmailzade Ahmad, Alireza Babai Mazreno, Nodoushan Ibrahim Salmani, Hajian Nadjme, 2013. Comparison between aerobic exercise and consumption of green tea on weight loss in overweighted men. Sport Science 6, 44–48.

Ghosh S A, Strutt N R, Otoo G E, Suri D J, Ankrah J, Johnson T, Nsiah P, Furuta C, Murakami H, Perera G, Chui Kenneth, Bomfeh Kennedy, Amonoo-Kuofi Harold, Tano-Debrah Kwaku, Uauy Ricardo, 2019. A macro- and micronutrient-fortified complementary food supplement reduced acute infection, improved haemoglobin and showed a dose-response effect in improving linear growth: a 12-month cluster randomised trial. Journal of nutritional science 8, e22. https://doi.org/10.1017/jns.2019.18

Ghosh Shibani, Pellett Peter L, Aw-Hassan Aden, Mouneime Youssef, Smriga Miro, Scrimshaw Nevin S, 2008. Impact of lysine-fortified wheat flour on morbidity and immunologic variables among members of rural families in northwest Syria. Food and nutrition bulletin 29, 163–171. https://doi.org/10.1177/156482650802900302

Ghrayeb Farid A. W, Rusli Mohamed A, Rifai Ayesha Al, Ismail Mohd I, 2013. Effectiveness of nutrition education intervention among high school students in Tarqumia, Palestine. Pakistan Journal of Nutrition 12, 787–792. https://doi.org/10.3923/pjn.2013.787.792

Gibbons María Amelia, Maffioli Alessandro, Rossi Martín A, 2016. Money For Wine? Complementarities In The Provision Of Private And Public Goods To Wine Producers, Inter-American Development Bank (IDB) Working Paper Series. Inter-American Development Bank (IDB) Working Paper Series, Completed.

Gibson R S, Kafwembe E, Mwanza S, Gosset L, Bailey K B, Mullen A, Baisley K, Filteau S, 2011. A micronutrient-fortified food enhances iron and selenium status of Zambian infants but has limited efficacy on zinc. Journal of Nutrition 141, 935–943. https://doi.org/10.3945/jn.110.135228

Gilgen D, Mascie-Taylor C G, 2001. The effect of weekly iron supplementation on anaemia and on iron deficiency among female tea pluckers in Bangladesh. Journal of human nutrition and dietetics : the official journal of the British Dietetic Association 14, 185–90.

Gilligan Daniel, Hidrobo Melissa, Hoddinott John, Roy Shalini, Schwab Benjamin, 2014. Much ado about modalities: Multicountry experiments on the effects of cash and food transfers on consumption patterns Agricultural&Applied Economics Association's 2014 AAE.

Gilligan Daniel O, Hoddinott John, 2007. Is There Persistence in the Impact of Emergency Food Aid? Evidence on Consumption, Food Security, and Assets in Rural Ethiopia. American Journal of Agricultural Economics 89, 225–42. https://doi.org/10.1111/j.1467-8276.2007.00992.x

Gilligan Daniel O, Karachiwalla Naureen, Thai Giang, 2019. Evaluation of the Impact of E-Verification on Counterfeit Agricultural Inputs and Technology Adoption in Uganda.

Gilligan Daniel O, Roy Shalini, 2016. The Effect Of Transfers And Preschool On Children's Cognitive Development In Uganda, 3ie Series Report. 3ie.

Gimaiyo Gerishom, McManus Jeffery, Yarri Matt, Singh Shiva, Trevett Andrew, Moloney Grainne, Robins Ann, Lehmann Lilian, 2019. Can child-focused sanitation and nutrition programming improve health practices and outcomes? Evidence from a randomised controlled trial in Kitui County, Kenya. BMJ Global Health 4. https://doi.org/10.1136/bmjgh-2018-000973

Gine Xavier, Barboza Ribeiro Bernardo, Valley Ildrim, 2019. Targeting Inputs: Experimental Evidence from Tanzania. World Bank Group.

Giovannini M, Sala D, Usuelli M, Livio L, Francescato G, Braga M, Radaelli G, Riva E, 2006. Double-blind, placebo-controlled trial comparing effects of supplementation with two different combinations of micronutrients delivered as sprinkles on growth, anemia, and iron deficiency in cambodian infants. Journal of Pediatric Gastroenterology and Nutrition 42, 306/312. https://doi.org/10.1097/01.mpg.0000189363.07040.4b

Girard Amy Webb, Grant Frederick, Watkinson Michelle, Okuku Haile Selassie, Wanjala Rose, Cole Donald, Levin Carol, Low Jan, 2017. Promotion of orange-fleshed sweet potato increased vitamin A intakes and reduced the odds of low retinol-binding protein among postpartum Kenyan women. Journal of Nutrition 147, 955–963. https://doi.org/10.3945/jn.116.236406

Githiomi Caroline, Muriithi Beatrice, Irungu Patrick, Mwungu Chris M, Diiro Gracious, Affognon Hippolyte, Mburu John, Ekesi Sunday, 2019. Economic analysis of spillover effects of an integrated pest management (IPM) strategy for suppression of mango fruit fly in Kenya. Food Policy 84, 121–132. https://doi.org/10.1016/j.foodpol.2019.03.006

Gitonga Z M, De Groote H, Kassie M, Tefera T, 2013. Impact of metal silos on households' maize storage, storage losses and food security: An application of a propensity score matching. Food Policy 43, 44–45. https://doi.org/10.1016/j.foodpol.2013.08.005

Gittelsohn Joel, Dyckman William, Frick Kevin D, Boggs Malia K, Haberle Heather, Alfred Julia, Vastine Amy, Palafox Neal, 2007. A pilot food store intervention in the Republic of the Marshall Islands. Pacific health dialog 14, 43–53.

Gitter Seth, Manley James, Barham Brad, 2011. The Coffee Crisis, Early Childhood Development, and Conditional Cash Transfers.

Gitter Seth R, Caldes Natalia, 2010. Crisis, Food Security, and Conditional Cash Transfers in Nicaragua.

Glassauer P, Aldinger C Y. U, Sen-Hai Yu, Shi-Chang Xia, Shu-Ming Tang, 2003. Nutrition as an entry point for health promoting schools: lesson from China. Food, Nutritional and Agriculture 33.

Glinz D, Hurrell R F, Ouattara M, Zimmermann M B, Brittenham G M, Adiossan L G, Righetti A A, Seifert B, Diakité V G, Utzinger J, N'Goran E K, Wegmüller R, 2015. The effect of iron-fortified complementary food and intermittent preventive treatment of malaria on anaemia in 12- to 36-month-old children: a cluster-randomised controlled trial. Malaria journal 14, 347. https://doi.org/10.1186/s12936-015-0872-3

Gobotswang Kesitegile S M, Marks Geoffry C, O'Rourke Peter, 2002. Participation in labor-intensive public works program (LIPWP): effect on staple crop production in southeastern Botswana. Food and nutrition bulletin 23, 413–20. https://doi.org/10.1177/156482650202300419

Godtland Erin M, Sadoulet Elisabeth, De Janvry Alain, Murgai Rinku, Ortiz Oscar, 2004. The Impact of Farmer Field Schools on Knowledge and Productivity: A Study of Potato Farmers in the Peruvian Andes. Economic Development and Cultural Change 53, 63. https://doi.org/10.1086/423253

Gokcay G, Ozden T, Karakas Z, Karabayr N, Yldz I, Abal S, Sahip Y, 2012. Effect of iron supplementation on development of iron deficiency anemia in breastfed infants. Journal of Tropical Pediatrics 58, 481–485. https://doi.org/10.1093/tropej/fms028

Goldstein Markus P, Houngbedji Kenneth, Kondylis Florence, O'Sullivan Michael B, Selod Harris, 2015. Formalizing rural land rights in West Africa: early evidence from a randomized impact evaluation in Benin. The World Bank.

Golembiewski Monika, Scherbaum Veronika, 2019. Nutrient-dense supplemental meals with and without micronutrient sprinkles or micronutrient-rich leaf powder (Moringa/Amaranthus) to reduce the prevalence of anemia in children living in Birbhum District, West Bengal, India; a cost-effectiveness analysis of three community-based nutrition interventions. International Clinical Trials Registry.

Gölünük S B, Öztaşan N, Sözen H, Koca H B, 2017. Effects of traditional fermented beverages on some blood parameters in aerobic exercises. Biomedical Research (India) 28, 9475–9480.

Gomo E, Filteau S M, Tomkins A M, Ndhlovu P, Michaelsen K F, Friis H, 2003. Subclinical mastitis among HIV-infected and uninfected Zimbabwean women participating in a multimicronutrient supplementation trial. Transactions of the Royal Society of Tropical Medicine and Hygiene 97, 212–216. https://doi.org/10.1016/S0035-9203(03)90124-6

Gonzalez Diez Verónica, Ibarrarán Pablo, Maffioli Alessandro, Rozo Sandra, 2011. The Impact of Technology Adoption on Agricultural Productivity: The Case of the Dominican Republic.

Gonzalez-Casanova I, Stein A D, Hao W, Garcia-Feregrino R, Barraza-Villarreal A, Romieu I, Rivera J A, Martorell R, Ramakrishnan U, 2015. Prenatal Supplementation with Docosahexaenoic Acid Has No Effect on Growth through 60 Months of Age. Journal of nutrition 145, 1330-1334. https://doi.org/10.3945/jn.114.203570

Gonzalez-Flores Mario, Bravo-Ureta Boris E, Sols Daniel, Winters Paul, 2014. The Impact of High Value Markets on Smallholder Productivity in the Ecuadorean Sierra: A Stochastic Production Frontier Approach Correcting for Selectivity Bias. Food Policy 44, 237–47. https://doi.org/10.1016/j.foodpol.2013.09.014

Gonzalez-Rosendo G, Polo J, Rodriguez-Jerez J J, Puga-Diaz R, Reyes-Navarrete E G, Quintero-Gutierrez A G, 2010. Bioavailability of a heme-iron concentrate product added to chocolate biscuit filling in adolescent girls living in a rural area of Mexico. Journal of Food Science 75, H73–H78. https://doi.org/10.1111/j.1750-3841.2010.01523.x

Goodarzi-Khoigani Masoomeh, Baghiani Moghadam, Mohammad Hossein, Nadjarzadeh Azadeh, Mardanian Farahnaz, Fallahzadeh Hossein, Mazloomy-Mahmoodabad SeyedSaeed, 2018. Impact of Nutrition Education in Improving Dietary Pattern During Pregnancy Based on Pender's Health Promotion Model: A Randomized Clinical Trial. Iranian journal of nursing and midwifery research 23, 18–25. https://doi.org/10.4103/ijnmr.IJNMR_198_16

Goodarzi-Khoigani Masoomeh, Moghadam Mohammad Hossein Baghiani, Nadjarzadeh Azadeh, Mardanian Farahnaz, Fallahzadeh Hossein, Mazloomy-Mahmoodabad SeyedSaeed, 2013. Impact of nutrition education intervention on appropriate food selection of rural mothers in Eha-Amufu, ISI-UZO L.G.A I. Annals of nutrition and metabolism. 63, 1033. https://doi.org/10.1159/000354245

Goonewardene Malik, Liyanage Chandrani, Fernando Ruwan, 2001. Intermittent oral iron supplementation during pregnancy. Ceylon Medical Journal 46, 132–135. https://doi.org/10.4038/cmj.v46i4.6440

Gowachirapant S, Jaiswal N, Melse-Boonstra A, Galetti V, Stinca S, Mackenzie I, Thomas S, Thomas T, Winichagoon P, Srinivasan K, Zimmermann M B, 2017. Effect of iodine supplementation in pregnant women on child neurodevelopment: a randomised, double-blind, placebo-controlled trial. The Lancet 5, 853–863. https://doi.org/10.1016/S2213-8587(17)30332-7

Gowani S, Yousafzai A K, Armstrong R, Bhutta Z A, 2014. Cost effectiveness of responsive stimulation and nutrition interventions on early child development outcomes in Pakistan. Annals of the New York Academy of Sciences 1308, 149–161. https://doi.org/10.1111/nyas.12367

Goyena Eva A, Barba Corazon V. C, Talavera Ma Theresa M, Paunlagui Merlyne M, Rola Agnes C, Tandang Nancy A, 2018. Effects of micronutrient powder and complementary food blend on growth and micronutrient status of Filipino rural children: a randomised controlled trial. Malaysian Journal of Nutrition 24, 475–492.

Goyle A, 2012. Effect of micronutrient fortified biscuit supplementation on the weight, height and BMI of adolescent girls. Collegium antropologicum 36, 573-579.

Grace Delia, Randolph Thomas, Diall Oumar, Clausen Peter-Henning, 2008. Training farmers in rational drug-use improves their management of cattle trypanosomosis: A cluster-randomised trial in south Mali [electronic resource]. Preventive veterinary medicine 83, 83–97. https://doi.org/10.1016/j.prevetmed.2007.06.005

Gram L, Morrison J, Saville N, Yadav S S, Shrestha B, Manandhar D, Costello A, Skordis-Worrall J, 2019. Do Participatory Learning and Action Women's Groups Alone or Combined with Cash or Food Transfers Expand Women's Agency in Rural Nepal? Journal of Development Studies 55, 1670–1686. https://doi.org/10.1080/00220388.2018.1448069

Greif Adi, Mattingly Dan, Persha Lauren, Fenner Stephanie, Boudreaux Karol, Boyd Aidan, Caron Cynthia, Huntington Heather, 2016. Ethiopia Strengthening Land Tenure and Administration Program Endline Report: An Impact Evaluation of the Effects of Second-Level Land Certification Relative to First-Level Certification.

Grillenberger M, 2006. Impact of animal source foods on growth, morbidity and iron bioavailability in Kenyan school children. Impact of animal source foods on growth, morbidity and iron bioavailability in Kenyan school children. Netherlands.

Grillos Tara, 2018. Women's participation in environmental decision-making: quasi-experimental evidence from northern Kenya. World Development 108, 115–130. https://doi.org/10.1016/j.worlddev.2018.03.017

Grogger Jeffrey, 2017. Soda Taxes And The Prices of Sodas And Other Drinks: Evidence From Mexico. American Journal of Agricultural Economics 99, 481–498. https://doi.org/10.1093/ajae/aax024

Gu D, He J, Wu X, Duan X, Whelton P K, 2001. Effect of potassium supplementation on blood pressure in Chinese: a randomized, placebo-controlled trial. Journal of Hypertension 19, 1325–1331. https://doi.org/10.1097/00004872-200107000-00019

Gu Yanhong, Zhu Yu, Zhang Zhihong, Wan Hongwei, 2016. Effectiveness of a theory-based breastfeeding promotion intervention on exclusive breastfeeding in China: A randomised controlled trial. Midwifery 42, 93–99. https://doi.org/10.1016/j.midw.2016.09.010

Guess N, Vasantharajah L, Gulliford M, Viberti G, Gnudi L, Karalliedde J, Wijesuriya M, 2016. Improvements in stage of change correlate to changes in dietary intake and clinical outcomes in a 5-year lifestyle intervention in young high-risk Sri Lankans. Preventive Medicine 90, 193–200. https://doi.org/10.1016/j.ypmed.2016.07.011

Guevarra Ernest, Mandalazi Emmanuel, Balegamire Safari, Albrektsen Kristine, Sadler Kate, Abdelsalam Khalid, Urrea Gloria, Alawad Salma, 2018. Impact evaluation of the World Food Programme's moderate acute malnutrition treatment and prevention programmes in Sudan. International Initiative for Impact Evaluation (3ie), New Delhi, India. https://doi.org/10.23846/tw6IE79

Gulati R, Bailey R, Prentice A M, Brabin B J, Owens S, 2009. Haematological effects of multimicronutrient supplementation in non-pregnant Gambian women. European Journal of Clinical Nutrition 63, 970–977. https://doi.org/10.1038/ejcn.2009.11

Gulati Seema, Misra Anoop, Tiwari Rajneesh, Sharma Meenu, Pandey Ravindra M, Yadav Chander Prakash, 2017. Effect of high-protein meal replacement on weight and cardiometabolic profile in overweight/obese Asian Indians in North India. British Journal of Nutrition 117, 1531–1540. https://doi.org/10.1017/S0007114517001295

Gulsen M, Gul U A, Eylem E, Cansn K, 2012. Effects of micronutrients on the childrens' growth. Journal of Pharmaceutical and Scientific Innovation (JPSI) 1, 108–111.

Gulshan A, Khanam M, Papri N, Nahar B, Kabir I, Sanin K I, Khan S S, Sarker M S A, Dibley M J, 2019. Peer Counseling Promotes Appropriate Infant Feeding Practices and Improves Infant Growth and Development in an Urban Slum in Bangladesh: A Community-Based Cluster Randomized Controlled Trial. Current Developments in Nutrition 3. https://doi.org/10.1093/cdn/nzz072

Gunaratna N S, Bosha T, Belayneh D, Fekadu T, De Groote H, 2016. Women's and children's acceptance of biofortified quality protein maize for complementary feeding in rural Ethiopia. Journal of the science of food and agriculture 96, 3439–45. https://doi.org/10.1002/jsfa.7526

Gunaratna N S, Masanja H, Mrema S, Levira F, Spiegelman D, Hertzmark E, Saronga N, Irema K, Shuma M, Elisaria E, Fawzi W, 2015. Multivitamin and iron supplementation to prevent periconceptional anemia in rural Tanzanian women: a randomized, controlled trial. PLoS ONE 10, e0121552. https://doi.org/10.1371/journal.pone.0121552

Gunawardena N, Kurotani K, Indrawansa S, Nonaka D, Mizoue T, Samarasinghe D, 2016. School-based intervention to enable school children to act as change agents on weight, physical activity and diet of their mothers: A cluster randomized controlled trial. The International Journal of Behavioral Nutrition and Physical Activity 13, 10.

Guo M, Jia X, Huang J, Kumar K B, Burger N E, 2015. Farmer field school and farmer knowledge acquisition in rice production: experimental evaluation in China. Agriculture, Ecosystems & Environment 209, 100–107. https://doi.org/10.1016/j.agee.2015.02.011

Gupta A, Dadhich J P, Ali S M, Thakur N, 2019. Skilled counseling in enhancing early and exclusive breastfeeding rates: an experimental study in an urban population in India. Indian Pediatrics 56, 114–118. https://doi.org/10.1007/s13312-019-1482-x

Gupta S, Kumar N, Menon P, Pandey S, Raghunathan K, 2019. Engaging women's groups to improve nutrition: Findings from an evaluation of the Jeevika multisectoral convergence pilot in Saharsa, Bihar.
Gurbuz Cuneo Alev, 2019. The Economics of Rural Populations in Sub-Saharan Africa: Financial Inclusion and Agriculture. Georgetown University.
Gweneth Austin, Theresa Hoke, 2019. Bangladesh MSNP: agricultural/Livelihood Mixed Methods Study. https://clinicaltrials.gov/show/NCT04185597.
Haas Jere D, Beard John L, Murray-Kolb Laura E, del Mundo Angelita M, Felix Angelina, Gregorio Glenn B, 2005. Iron-biofortified rice improves the iron stores of nonanemic Filipino women. The Journal of nutrition 135, 2823–30. https://doi.org/10.1093/jn/135.12.2823
Haas Jere D, Luna Sarah V, Lung'aho Mercy G, Wenger Michael J, Murray-Kolb Laura E, Beebe Stephen, Gahutu Jean-Bosco, Egli Ines M, 2016. Consuming Iron Biofortified Beans Increases Iron Status in Rwandan Women after 128 Days in a Randomized Controlled Feeding Trial. Journal of Nutrition 146, 1586–1592. https://doi.org/10.3945/jn.115.224741
Haas Jere D, Rahn Maike, Venkatramanan Sudha, Marquis Grace S, Wenger Michael J, Murray-Kolb Laura E, Wesley Annie S, Reinhart Gregory A, 2014. Double-fortified salt is efficacious in improving indicators of iron deficiency in female Indian tea pickers. Journal of Nutrition 144, 957–964. https://doi.org/10.3945/jn.113.183228
Habib-Mourad C, Ghandour L A, Maliha C, Awada N, Dagher M, Hwalla N, 2020. Impact of a one-year school-based teacher-implemented nutrition and physical activity intervention: main findings and future recommendations. BMC Public Health 20. https://doi.org/10.1186/s12889-020-8351-3
Hadi H, Stoltzfus R J, Dibley M J, Moulton L H, West K P, Kjolhede C L, Sadjimin T, 2000. Vitamin A supplementation selectively improves the linear growth of Indonesian preschool children: results from a randomized controlled trial. American Journal of Clinical Nutrition 71, 507–513.
Hadler Maria C. C. M, Sigulem Dirce M, Alves Maria de F. C, Torres Vinícius M, 2008. Treatment and prevention of anemia with ferrous sulfate plus folic acid in children attending daycare centers in Goiania, Goias State, Brazil: a randomized controlled trial. Cadernos de Saúde Pública 24, S259–S271. https://doi.org/10.1590/S0102-311X2008001400011
Hafeez A, Mehmood G, Mazhar F, 2005. Oral zinc supplementation in pregnant women and its effect on birth weight: a randomised controlled trial. ADC Fetal & Neonatal edition 90. https://doi.org/10.1136/adc.2004.063008
Haider R, Ashworth A, Kabir I, Huttly S R A, 2000. Effect of community-based peer counsellors on exclusive breastfeeding practices in Dhaka, Bangladesh: a randomised controlled trial [see commments]. Lancet 356, 1643–1647. https://doi.org/10.1016/s0140-6736(00)03159-7
Hall Andrew, Roschnik Natalie, Ouattara Fatimata, Toure Idrissa, Maiga Fadima, Sacko Moussa, Moestue Helen, Bendech Mohamed A, 2002. A randomised trial in Mali of the effectiveness of weekly iron supplements given by teachers on the haemoglobin concentrations of schoolchildren. Public health nutrition 5, 413–418. https://doi.org/10.1079/PHN2001327
Hamadani J D, Fuchs G J, Osendarp S J M, Khatun F, Huda S N, Grantham-McGregor S M, 2001. Randomized controlled trial of the effect of zinc supplementation on the mental development of Bangladeshi infants 74, 381–386. https://doi.org/10.1093/ajcn/74.3.381
Hamadani Jena D, Fuchs George J, Osendarp Saskia J. M, Huda Syed N, Grantham-McGregor Sally M, 2002. Zinc supplementation during pregnancy and effects on mental development and behaviour of infants: a follow-up study. Lancet 360, 290–294. https://doi.org/10.1016/S0140-6736(02)09551-X
Hambidge K Michael, Westcott Jamie E, Garces Ana, Figueroa Lester, Goudar Shivaprasad S, Dhaded Sangappa M, Pasha Omrana, Ali Sumera A, Tshefu Antoinette, Lokangaka Adrien, Derman Richard J, Goldenberg Robert L, Bose Carl L, Bauserman Melissa, Koso-Thomas Marion, Thorsten Vanessa R, Sridhar Amaanti, Stolka Kristen, Das Abhik, McClure Elizabeth M, Krebs Nancy F, 2019. A multicountry randomized controlled trial of comprehensive maternal nutrition supplementation initiated before conception: the Women First trial. American Journal of Clinical Nutrition 109, 457–469. https://doi.org/10.1093/ajcn/nqy228
Handa Sudhanshu, Park Michael, Osei Darko Robert, Osei-Akoto Isaac, Davis Benjamin, Daidone Silvio, 2013. Livelihood Empowerment Against Poverty Program Impact Evaluation. Carolina Population Center.
Hanieh S, Ha T T, Simpson J A, Braat S, Thuy T T, Tran T D, King J, Tuan T, Fisher J, Biggs B A, 2017. Effect of low-dose versus higher-dose antenatal iron supplementation on child health outcomes at 36 months of age in Viet Nam: longitudinal follow-up of a cluster randomised controlled trial. BMJ Global Health 2, e000368. https://doi.org/10.1136/bmjgh-2017-000368
Hanna R, Olken B A, Cahyadi N, Prima R A, Satriawan E, Syamsulhakim E, 2013. The Medium-Term Impact of Conditional Cash Transfers on Health and Education in Indonesia [WWW Document]. URL https://www.povertyactionlab.org/evaluation/medium-term-impact-conditional-cash-transfers-health-and-education-indonesia
Hans Unim, Edward Byamukama, 2010. Regular vitamin C supplementation during pregnancy reduces hospitalization: outcomes of a Ugandan rural cohort study. The Pan African medical journal 5.
Hansen Henrik, Trifković Neda, 2013. Food Standards Are Good - For Middle-Class Farmers. World Development 56, 226–242. https://doi.org/10.1016/j.worlddev.2013.10.027
Hao Ming, Han Wei, Yamauchi Taro, 2019. Short-term and long-term effects of a combined intervention of rope skipping and nutrition education for overweight children in Northeast China. Asia-Pacific Journal of Public Health 31, 348–358. https://doi.org/10.1177/1010539519848275

Haque A B. M. M, Dey M M, 2017. Impacts of community-based fish culture in seasonal floodplains on income, food security and employment in Bangladesh. Food Security 9, 25–38. https://doi.org/10.1007/s12571-016-0629-z

Haque M F, Hussain M, Sarkar A K, Hoque M M, Ara F A, Sultana S, 2002. Breast-feeding counselling and its effect on the prevalence of exclusive breast-feeding. Journal of Health, Population and Nutrition 20, 312–316.

Harrington J, Perumal N, Abdullah Al-mahmud, Abdullah Baqui, Roth D E, 2014. Vitamin D and fetal-neonatal calcium homeostasis: findings from a randomized controlled trial of high-dose antenatal vitamin D supplementation. Pediatric Research 76, 302–309. https://doi.org/10.1038/pr.2014.83

Harrington M, Hotz C, Zeder C, Polvo G O, Villalpando S, Zimmermann M B, Walczyk T, Rivera J A, Hurrell R F, 2011. Comparison of the bioavailability of ferrous fumarate and ferrous sulfate in non-anemic Mexican women and children consuming a sweetened maize and milk drink. European journal of clinical nutrition 65, 20–25. https://doi.org/10.1038/ejcn.2010.185

Harris-Fry H A, Kishwar Azad, Younes L, Abdul Kuddus, Sanjit Shaha, Tasmin Nahar, Munir Hossen, Costello A, Fottrell E, 2016. Formative evaluation of a participatory women's group intervention to improve reproductive and women's health outcomes in rural Bangladesh: a controlled before and after study. Journal of Epidemiology & Community Health 70, 663–670. https://doi.org/10.1136/jech-2015-205855

Harris-Fry Helen A, Paudel Puskar, Harrisson Tom, Shrestha Niva, Jha Sonali, Beard B James, Copas Andrew, Shrestha Bhim P, Manandhar Dharma S, Costello Anthony M. de L, Cortina-Borja Mario, Saville Naomi M, 2018. Participatory Women's Groups with Cash Transfers Can Increase Dietary Diversity and Micronutrient Adequacy during Pregnancy, whereas Women's Groups with Food Transfers Can Increase Equity in Intrahousehold Energy Allocation. Journal of Nutrition 148, 1472–1483. https://doi.org/10.1093/jn/nxy109

Hasanain Ali, Khan Muhammad Yasir, Rezaee Arman, 2017. No bulls: Crowdsourcing away asymmetric information in the market for artificial insemination in Pakistan.

Hatami T, Noroozi A, Tahmasebi R, Rahbar A, 2018. Effect of multimedia education on nutritional behaviour for colorectal cancer prevention: an application of health belief model. The Malaysian Journal of Medical Sciences 25, 110–120. https://doi.org/10.21315/mjms2018.25.6.11

Hawkesworth Sophie, Prentice Andrew M, Fulford Anthony J, Moore Sophie E, 2008. Dietary Supplementation of Rural Gambian Women during Pregnancy Does Not Affect Body Composition in Offspring at 11–17 Years of Age. Journal of Nutrition 138, 2468–2473. https://doi.org/10.3945/jn.108.098665

Hazavehei Seyed Mohammad Mehdi, Etesamifard Tahereh, Moeini Babak, Roshanaei Ghodratollah, Mahboubi Mohammad, 2014. Education based on BASNEF model; an affective education on regular use of nutritional supple-ments during pregnancy. Journal of Biology and Today's World 3, 174–179.

He F J, Wu Y, Feng X X, Ma J, Ma Y, Wang H, Zhang J, Yuan J, Lin C P, Nowson C, Macgregor G A, 2015. School Based Education Programme To Reduce Salt Intake In Children And Their Families (School-Edusalt): Cluster Randomised Controlled Trial. British Medical Journal (BMJ) 350. https://doi.org/10.1136/bmj.h770

He F J, Zhang PuHong, Luo Rong, Li Yuan, Chen FengGe, Zhao YuHong, Zhao Wei, Li DaoXi, Chen Hang, Wu TianYong, Yao JianYun, Li JinBao, Zhou SiYuan, Liu Yu, Li Xian, Wang ChangQiong, MacGregor G A, 2019. An application-based programme to reinforce and maintain lower salt intake (AppSalt) in schoolchildren and their families in China. BMJ Open 9, e027793. https://doi.org/10.1136/bmjopen-2018-027793

Heckert J, Olney D K, Ruel M T, 2019. Is women's empowerment a pathway to improving child nutrition outcomes in a nutrition-sensitive agriculture program?: Evidence from a randomized controlled trial in Burkina Faso. Social Science & Medicine 233, 93–102. https://doi.org/10.1016/j.socscimed.2019.05.016

Heidari Z, Keshvari M, Kohan S, 2016. Clinical trial to comparison the effect of family-centered educational-supportive program on mothers' empowerment in breast-feeding. International Journal of Pediatrics 4, 1445–1451. https://doi.org/10.22038/IJP.2016.6556

Helfand Steven, Costa Lorena Viera, Souza Andre Portela, 2018. No Impact of Rural Development Policies? No Synergies with Conditional Cash Transfers? An Investigation of the IFAD-Supported Gaviao Project in Brazil WORKING PAPER 489, Pages.

Helfand Steven M, Sielawa Vilma H, Singhania Deepak, 2019. A Matter of Time: An Impact Evaluation of the Brazilian National Land Credit Program. Journal of Development Economics 141. https://doi.org/10.1016/j.jdeveco.2019.06.004

Helmizar H, Jalal F, Lipoeto N I, Achadi E L, 2017. Local food supplementation and psychosocial stimulation improve linear growth and cognitive development among Indonesian infants aged 6 to 9 months. Asia Pacific Journal of Clinical Nutrition 26, 97–103. https://doi.org/10.6133/apjcn.102015.10

Henderson Amanda M, Aleliunas Rika E, Peng Su Loh, Khor Geok Lin, Harvey-Leeson Sarah, Glier Melissa B, Kitts David D, Green Tim J, Devlin Angela M, 2018. L-5-methyltetrahydrofolate supplementation increases blood folate concentrations to a greater extent than folic acid supplementation in Malaysian women. Journal of Nutrition 148, 885–890. https://doi.org/10.1093/jn/nxy057

Henning J, Morton J, Pym R, Hla T, Meers J, 2009. Evaluation of strategies to improve village chicken production: controlled field trials to assess effects of Newcastle disease vaccination and altered chick rearing in Myanmar [corrected]. Preventive Veterinary Medicine 90, 17–30. https://doi.org/10.1016/j.prevetmed.2009.04.007

Herman S, Griffin I J, Suwarti S, Ernawati F, Permaesih D, Pambudi D, Abrams S A, 2002. Cofortification of iron-fortified flour with zinc sulfate, but not zinc oxide, decreases iron absorption in Indonesian children. The American journal of clinical nutrition 76, 813–7. https://doi.org/10.1093/ajcn/76.4.813

Hernandez-Cordero Sonia, Barquera Simon, Rodriguez-Ramirez Sonia, Villanueva-Borbolla Maria Angeles, Gonzalez de Cossio Teresa, Rivera Dommarco Juan, Popkin Barry, 2014. Substituting water for sugar-sweetened beverages reduces circulating triglycerides and the prevalence of metabolic syndrome in obese but not in overweight Mexican women in a randomized controlled trial. Journal of Nutrition 144, 1742–1752. https://doi.org/10.3945/jn.114.193490

Herscovici C Rausch, Kovalskys I, De Gregorio M J, 2013. Gender differences and a school-based obesity prevention program in Argentina: a randomized trial. Revista panamericana de salud publica [Pan American journal of public health] 34, 75-82.

Hess Sonja Y, Yakes Elizabeth Jimenez, Abbeddou Souheila, 2014. Iodine Status of Young Burkinabe Children Receiving Small-quantity Lipid-based Nutrient Supplements and Iodised Salt: A Cluster-randomised Trial. Sight and Life Magazine 30, 23–25.

Hettiarachchi M, Lekamwasam S, Liyanage C, 2010. Long term cereal-based nutritional supplementation improved the total spine bone mineral density amongst Sri Lankan preschool children: a randomized controlled study. Journal of Pediatric Endocrinology & Metabolism 23, 555–563.

Hettiarachchi M, Liyanage C, 2010. Efficacy of “Thriposha” supplementation in improving the micronutrient status of preschool children. The Ceylon medical journal 55, 85–9.

Hettiarachchi M, Liyanage C, Wickremasinghe R, Hilmers DC, Abrams SA, 2008. The efficacy of micronutrient supplementation in reducing the prevalence of anaemia and deficiencies of zinc and iron among adolescents in Sri Lanka. European Journal of Clinical Nutrition 62, 856–865. https://doi.org/10.1038/sj.ejcn.1602791

Hewett Paul C, Austrian Karen, Soler-Hampejsek Erica, Behrman Jere R, Bozzani Fiammetta, Jackson-Hachonda Natalie A, 2017. Cluster randomized evaluation of adolescent girls empowerment programme (AGEP): study protocol. BMC Public Health 17. https://doi.org/10.1186/s12889-017-4280-1

Hidrobo M, Hoddinott J, Peterman A, Margolies A, Moreira V, 2012. Cash, food or vouchers? Evidence from a randomised experiment in northern Ecuador. (No. 1743–5080), Special focus on nutrition-sensitive programming. UK.

Hidrobo M, Peterman A, Heise L, 2016. The effect of cash, vouchers, and food transfers on intimate partner violence: Evidence from a randomized experiment in Northern Ecuador. American Economic Journal: Applied Economics 8, 284–303. https://doi.org/10.1257/app.20150048

Hidrobo Melissa, Roy Shalini, Huybregts Lieven, 2016. The Effect of a Cash Transfer Program on Household Welfare and Child Nutritional Status in Mali. Clinicaltrials gov.

Hien Vu Thi Thu, Khan Nguyen Cong, Mai Le Bach, Lam Nguyen Thi, Phuong Tuan Mai, Nhung Bui Thi, Nhien, Nguyen Van, Nakamori Masayo, Yamamoto Shigeru, 2009. Effect of community-based nutrition education intervention on calcium intake and bone mass in postmenopausal Vietnamese women. Public Health Nutrition 12, 674–679. https://doi.org/10.1017/S1368980008002632

Hieu N T, Sandalinas F, De Sesmaisons A, Laillou A, Tam N P, Khan N C, Bruyeron O, Wieringa F T, Berger J, 2012. Multi-micronutrient-fortified biscuits decreased the prevalence of anaemia and improved iron status, whereas weekly iron supplementation only improved iron status in Vietnamese school children. British Journal of Nutrition 108, 1419–1427. https://doi.org/10.1017/S0007114511006945

Hill Ruth Vargas, Kumar Neha, Magnan Nicholas, Makhija Simrin, de Nicola Francesca, Spielman David J, Ward Patrick S, 2019. Ex ante and ex post effects of hybrid index insurance in Bangladesh. Journal of development economics 136, 1–17. https://doi.org/10.1016/j.jdeveco.2018.09.003

Hill Ruth Vargas, Kumar Neha, Magnan Nicholas, Makhija Simrin, De Nicola Francesca, Spielman David J, Ward Patrick S, 2017. Insuring Against Drought: Evidence on Agricultural Intensification and Demand for Index Insurance from a Randomized Evaluation in Rural Bangladesh.

Hiroyuki Takeshima, 2018. DISTRIBUTIONAL EFFECTS OF AGRICULTURAL INFRASTRUCTURE IN DEVELOPING COUNTRIES: LARGE IRRIGATION DAMS AND DROUGHT MITIGATION IN NIGERIA. Journal of Developing Areas 52, 1–13. https://doi.org/10.1353/jda.2018.0032

Hmone M P, Li M, Agho K, Dibley M, 2017. Impact of SMS text messages to improve exclusive breastfeeding and reduce other adverse infant feeding practices in yangon, Myanmar: a randomized controlled trial. Annals of nutrition & metabolism 71, 610-611. https://doi.org/10.1159/000480486

Hoa P T, Khan N C, van Beusekom C, Gross R, Conde W L, Khoi H D, 2005. Milk fortified with iron or iron supplementation to improve nutritional status of pregnant women: an intervention trial from rural Vietnam. Food and nutrition bulletin 26, 32-38. https://doi.org/10.1177/156482650502600104

Hoddinott J, Berhane G, Gilligan D O, Kumar N, Taffesse A, 2012. The impact of Ethiopia’s Productive Safety Net Programme and related transfers on agricultural productivity. Journal of African Economies 21, 761–786. https://doi.org/10.1093/jae/ejs023

Hoddinott John, Ahmed Akhter, Roy Shalini, 2018a. Randomized control trials demonstrate that nutrition-sensitive social protection interventions increase the use of multiple-micronutrient powders and iron supplements in rural pre-school Bangladeshi children. Public Health Nutrition 21, 1753–1761. https://doi.org/10.1017/S1368980017004232

Hoddinott John, Sandstrom Susanna, Upton Joanna, 2018b. The Impact of Cash and Food Transfers: Evidence from a Randomized Intervention in Niger. American Journal of Agricultural Economics 100, 1032–1049. https://doi.org/10.1093/ajae/aay019

Hoddinott John, Skoufias Emmanuel, 2003. The impact of PROGRESA on food consumption., Food and nutrition bulletin. International Food Policy Research Institute (IFPRI), USA.

Hoffmann V, Jones K, Leroy J L, 2018. The impact of reducing dietary aflatoxin exposure on child linear growth: a cluster randomised controlled trial in Kenya. BMJ Global Health 3, e000983. https://doi.org/10.1136/bmjgh-2018-000983

Hoken Hisatoshi, Su Qun, 2018. Measuring the Effect of Agricultural Cooperatives on Household Income: Case Study of a Rice-Producing Cooperative in China. Agribusiness 34, 831–846. https://doi.org/10.1002/agr.21554

Hop L T, Berger J, 2005. Multiple micronutrient supplementation improves anemia, micronutrient nutrient status, and growth of Vietnamese infants: double-blind, randomized, placebo-controlled trial. The Journal of Nutrition 135, 660S-665S. https://doi.org/10.1093/jn/135.3.660S

Hörner Denise, Bouguen Adrien, Frölich Markus, Wollni Meike, 2019. The Effects of Decentralized and Video-based Extension on the Adoption of Integrated Soil Fertility Management–Experimental Evidence from Ethiopia. The National Bureau of Economic Research 52. https://doi.org/10.3386/w26052

Hotz C, Loechl C, de Brauw A, Eozenou P, Gilligan D, Moursi M, Munhaua B, van Jaarsveld P, Carriquiry A, Meenakshi J V, 2012. A large-scale intervention to introduce orange sweet potato in rural Mozambique increases vitamin A intakes among children and women. British Journal of Nutrition 108, 163–176. https://doi.org/10.1017/S0007114511005174

Hotz Christine, Loechl Cornelia, Lubowa Abdelrahman, Tumwine James K, Ndeezi Grace, Masawi Agnes Nandutu, Baingana Rhona, Carriquiry Alicia, de Brauw Alan, Meenakshi Jonnalagadda V, Gilligan Daniel O, 2012. Introduction of beta -carotene-rich orange sweet potato in rural Uganda resulted in increased vitamin A intakes among children and women and improved vitamin A status among children. Journal of Nutrition 142, 1871–1880. https://doi.org/10.3945/jn.111.151829

Hotz Christine, Porcayo Maribel, Onofre German, Garcia-Guerra Armando, Elliott Terry, Jankowski Shirley, Greiner Ted, 2008. Efficacy of iron-fortified Ultra Rice in improving the iron status of women in Mexico. Food and nutrition bulletin 29, 140–9. https://doi.org/10.1177/156482650802900208

Houeninvo G H, Quenum C V C, Nonvide G M A, 2019. Impact of improved maize variety adoption on smallholder farmers' welfare in Benin. Economics of Innovation and New Technology. https://doi.org/10.1080/10438599.2019.1669331

Htet M K, Fahmida U, Dillon D, Akib A, Utomo B, Thurnham D I, 2019. Is iron supplementation influenced by sub-clinical inflammation?: a randomized controlled trial among adolescent schoolgirls in Myanmar. Nutrients 11, 918. https://doi.org/10.3390/nu11040918

Hu C, Ye D, Li Y, Huang Y, Li L, Gao Y, Wang S, 2010. Evaluation of a kindergarten-based nutrition education intervention for pre-school children in China. Public Health Nutrition 13, 253–260. https://doi.org/10.1017/S1368980009990814

Huang Dongfeng, Pan Zhucai, Qiu Xiaoxuan, 2019. Effects of Application of BB Fertilizer on the Yield, Quality and Economic Benefits of Citrus. Presented at the IOP Conference Series: Materials Science and Engineering. https://doi.org/10.1088/1757-899X/611/1/012062

Huang J, Xiang C, Jia X, Hu R, 2012. Impacts of training on farmers' nitrogen use in maize production in Shandong, China. Journal of Soil and Water Conservation (Ankeny) 67, 321–327. https://doi.org/10.2489/jswc.67.4.321

Huang Jikun, Huang Zhurong, Jia Xiangpiang, Hu Ruifa, Xiang Cheng, 2015. Long-term reduction of nitrogen fertilizer use through knowledge training in rice production in China. Agricultural Systems 135, 105–111. https://doi.org/10.1016/j.agsy.2015.01.004

Huang Jikun, Pray Carl, Rozelle Scott, Hu Ruifa, 2005. Insect-Resistant GM Rice in Farmers' Fields: Assessing Productivity and Health Effects in China. Science 308, 688–690. https://doi.org/10.1126/science.1108972

Huang Tao, Li KeLei, Asimi S, Chen Qi, Li Duo, 2015. Effect of vitamin B-12 and n-3 polyunsaturated fatty acids on plasma homocysteine, ferritin, C-reactive protein, and other cardiovascular risk factors: a randomized controlled trial. Asia Pacific Journal of Clinical Nutrition 24, 403–411. https://doi.org/10.6133/apjcn.2015.24.3.19

Hughes K, Paez-Valencia A, Mulwafu A, Mseu T, 2019. A theory-based evaluation of the Agroforestry Food Security Programme, Phase II in Malawi (AFSPII): Lessons for Scaling Up Complex Agronomic and Natural Resource Management Practices Developed and Tested in Research Settings. ICRAF Working Paper 300. https://doi.org/10.5716/WP19036.PDF

Hughes Karl, Morgan Seth, Baylis Katherine, Oduol Judith, Smith-Dumont Emilie, Vågen Tor-Gunnar, Kegode Hilda, 2020. Assessing the downstream socioeconomic impacts of agroforestry in Kenya. World Development 128. https://doi.org/10.1016/j.worlddev.2019.104835

Humphrey J H, Mbuya M N N, Ntozini R, Moulton L H, Stoltzfus R J, Tavengwa N V, Mutasa K, Majo F, Mutasa B, Mangwadu G, Chasokela C M, Chigumira A, Chasekwa B, Smith L E, Tielsch J M, Jones A D, Manges A R, Maluccio J A, Prendergast A J, Sanitation Hygiene Infant Nutrition Efficacy (SHINE) Trial Team, 2019. Independent and combined effects of improved WASH and improved complementary feeding on child stunting and anaemia in rural Zimbabwe. The Lancet Global health 7, e132–e147. https://doi.org/10.1016/S2214-109X(18)30374-7

Huo J, Sun J, Huang J, Li W, Wang L, Selenje L, Gleason G R, Yu X, 2012. Effectiveness of fortified flour for enhancement of vitamin and mineral intakes and nutrition status in northwest Chinese villages. Food and Nutrition Bulletin 33, 161–168. https://doi.org/10.1177/156482651203300210

Huo Junsheng, Jing Sun, Huang Jian, Li Wenxian, Wang Lijuan, Selenje Lilian, Gleason Gary R, Yu Xiaodong, 2011. The effectiveness of fortified flour on micro-nutrient status in rural female adults in China. Asia Pacific Journal of Clinical Nutrition 20, 118–124.

Hussain Tajammal, Abbas Shaid, Khan Mushtaq A, Scrimshaw Nevin S, 2004. Lysine fortification of wheat flour improves selected indices of the nutritional status of predominantly cereal-eating families in Pakistan. Food and Nutrition Bulletin 25, 114–122. https://doi.org/10.1177/156482650402500202

Huybregts L, Houngbe F, Salpeteur C, Brown R, Roberfroid D, Ait-Aissa M, Kolsteren P, 2012. The effect of adding ready-to-use supplementary food to a general food distribution on child nutritional status and

morbidity: a cluster-randomized controlled trial. PLoS Medicine 9, e1001313. https://doi.org/10.1371/journal.pmed.1001313
Huybregts L, Roberfroid D, Lanou H, Menten J, Meda N, Van Camp J, Kolsteren P, 2009. Prenatal food supplementation fortified with multiple micronutrients increases birth length: a randomized controlled trial in rural Burkina Faso. The American journal of clinical nutrition 90, 1593–600. https://doi.org/10.3945/ajcn.2009.28253
Huybregts Lieven, Port Agnes Le, Becquey Elodie, Zongrone Amanda, Barba Francisco M, Rawat Rahul, Leroy Jef L, Ruel Marie T, 2019. Impact on child acute malnutrition of integrating small-quantity lipid-based nutrient supplements into community-level screening for acute malnutrition: a cluster-randomized controlled trial in Mali. PLoS Medicine 16, e1002892. https://doi.org/10.1371/journal.pmed.1002892
Huynh Dieu T. T, Tran Nga T, Nguyen Lam T, Berde Yatin, Low Yen Ling, 2018. Impact of maternal nutritional supplementation in conjunction with a breastfeeding support program on breastfeeding performance, birth, and growth outcomes in a Vietnamese population. Journal of maternal-fetal & neonatal medicine 31, 1586-1594. https://doi.org/10.1080/14767058.2017.1320984
Hyder S M, Haseen F, Khan M, Schaetzel T, Jalal C S, Rahman M, Lönnerdal B, Mannar V, Mehansho H, 2007. A multiple-micronutrient-fortified beverage affects hemoglobin, iron, and vitamin A status and growth in adolescent girls in rural Bangladesh. Journal of nutrition 137, 2147-2153. https://doi.org/10.1093/jn/137.9.2147
Iacovone L, Mckenzie D J, 2019. Shortening Supply Chains : Experimental Evidence from Fruit and Vegetable Vendors in Bogota. The World Bank, Policy Research Working Paper Series: 8977. https://doi.org/10.1596/1813-9450-8977
Iannotti L, Dulience Sj L, Joseph S, Cooley C, Tufte T, Cox K, Eaton J, Delnatus J R, Wolff P B, 2016. Fortified snack reduced anemia in rural school-aged children of Haiti: a cluster-randomized, controlled trial. Plos one 11, e0168121. https://doi.org/10.1371/journal.pone.0168121
Iannotti L L, Dulience S J L, Green J, Joseph S, François J, Anténor Ma L, Lesorogol C, Mounce J, Nickerson N M, 2014. Linear growth increased in young children in an urban slum of Haiti: a randomized controlled trial of a lipid-based nutrient supplement. American Journal of Clinical Nutrition 99, 198–208. https://doi.org/10.3945/ajcn.113.063883
Iannotti L L, Henretty N M, Delnatus J R, Previl W, Stehl T, Vorkoper S, Bodden J, Maust A, Smidt R, Nash M L, Tamimie C A, Owen B C, Wolff P B, 2015. Ready-to-Use Supplementary Food Increases Fat Mass and BMI in Haitian School-Aged Children. Journal of Nutrition 145, 813–822. https://doi.org/10.3945/jn.114.203182
Iannotti L L, Lutter C K, Stewart C P, Riofrio C A. G, Malo C, Reinhart G, Palacios A, Karp C, Chapnick M, Cox K, Waters W F, 2017. Eggs in early complementary feeding and child growth: a randomized controlled trial. Pediatrics 140. https://doi.org/10.1542/peds.2016-3459
Iannotti L L, Zavaleta N, Leon Z, Shankar A H, Caulfield L E, 2009. Maternal zinc supplementation and growth in Peruvian infants. The American Journal of Clinical Nutrition 88, 154–160. https://doi.org/10.1093/ajcn/88.1.154
Ibanez Marcela, Blackman Allen, 2015. Environmental and Economic Impacts of Growing Certified Organic Coffee in Colombia. Resources For the Future.
Iddrisu Adam, Ansah Isaac Gershon Kodwo, Nkegbe Paul Kwame, 2018. Effect of Input Credit on Smallholder Farmers' Output and Income: Evidence from Northern Ghana. Agricultural Finance Review 78, 98–115. https://doi.org/10.1108/AFR-05-2017-0032
Ijumba Petrida, Doherty Tanya, Jackson Debra, Tomlinson Mark, Sanders David, Swanevelder Sonja, Persson Lars-Åke, 2015. Effect Of An Integrated Community-Based Package For Maternal And Newborn Care On Feeding Patterns During The First 12 Weeks Of Life: A Cluster-Randomized Trial In A South African Township. Public Health Nutrition 18, 2660–2668. https://doi.org/10.1017/S1368980015000099
Ilhan Nesrin, Yldz Ayşe, 2018. The effect of Behavior-Image Model-based brief interventions on health behaviors in adolescents. Guncel Pediatri: Journal of Current Pediatrics 16, 55–71.
Inayati D A, Scherbaum V, Purwestri R C, Wirawan N N, Suryantan J, Hartono S, Bloem M A, Pangaribuan R V, Biesalski H K, Hoffmann V, Bellows A C, 2012. Combined intensive nutrition education and micronutrient powder supplementation improved nutritional status of mildly wasted children on Nias Island, Indonesia. Asia Pacific Journal of Clinical Nutrition 21, 361–373.
In-Iw S, Saetae T, Manaboriboon B, 2012. The effectiveness of school-based nutritional education program among obese adolescents: a randomized controlled study. International Journal of Pediatrics 2012, 5.
Institute of Statistical, S., Economic Research University of Ghana, 2012. An Impact Evaluation Of The MIDA FBO Training.
Isaboke H N, Zhang Q, Nyarindo W N, 2016. The effect of weather index based micro-insurance on food security status of smallholders. Agricultural and Resource Economics: International Scientific E-Journal 2, 5–21. https://doi.org/10.22004/ag.econ.256850
Isanaka S, Nombela N, Djibo A, Poupard M, Van Beckhoven D, Gaboulaud V, Guerin P J, Grais R F, 2009. Effect of preventive supplementation with ready-to-use therapeutic food on the nutritional status, mortality, and morbidity of children aged 6 to 60 months in Niger: a cluster randomized trial. JAMA, Journal of the American Medical Association 301, 277–285. https://doi.org/10.1001/jama.2008.1018
Ishak Sharifah Intan Zainun Sharif, Chin Yit Siew, Taib Mohd Nasir Mohd, Shariff Zalilah Mohd, 2016. School-based intervention to prevent overweight and disordered eating in secondary school Malaysian adolescents: a study protocol. BMC public health 16, 1101. https://doi.org/10.1186/s12889-016-3773-7

Islam Abu Hayat Md Saiful, Barman Benoy K, Murshed-e-Jahan Khondker, 2015. Adoption and impact of integrated rice-fish farming system in Bangladesh. Aquaculture 447, 76–85. https://doi.org/10.1016/j.aquaculture.2015.01.006

Islam M Munirul, McDonald Christine M, Krebs Nancy F, Westcott Jamie, Rahman Ahmed Ehsanur, El-Arifeen Shams, Ahmed Tahmeed, King Janet C, Black Robert E, 2018. Study protocol for a randomized, double-blind, community-based efficacy trial of various doses of zinc in micronutrient powders or tablets in young Bangladeshi children. Nutrients 10, 132. https://doi.org/10.3390/nu10020132

Islam M Z, Shamim A A, Viljakainen H T, Akhtaruzzaman M, Jehan A H, Khan H U, Al-Arif F A, Lamberg-Allardt C, 2010. Effect of vitamin D, calcium and multiple micronutrient supplementation on vitamin D and bone status in Bangladeshi premenopausal garment factory workers with hypovitaminosis D: a double-blinded, randomised, placebo-controlled 1-year intervention. British Journal of Nutrition 104, 241–247. https://doi.org/10.1017/S0007114510000437

Islam Mahnaz, Hoddinott John, 2009. Evidence of intrahousehold flypaper effects from a nutrition intervention in rural Guatemala. Economic Development and Cultural Change 57, 215–238. https://doi.org/10.1086/592876

Ismail Suraiya, Borja-Vega Christian, Demas Angela, Jarvis Edward, 2012. Guyana's Hinterland and Community-Based School Feeding Programme. World Bank; Guyana Ministry of Education.

Issahaku G, Abdulai A, 2020. Household welfare implications of sustainable land management practices among smallholder farmers in Ghana. Land Use Policy 94. https://doi.org/10.1016/j.landusepol.2020.104502

Iyer S S, Boateng L A, Sales R L, Coelho S B, Lokko P, Monteiro J B R, Costa N M B, Mattes R D, 2006. Effects of peanut oil consumption on appetite and food choice. International journal of obesity 30, 704–710. https://doi.org/10.1038/sj.ijo.0803180

Jack S J, Ou K, Chea M, Chhin L, Devenish R, Dunbar M, Eang C, Hou K, Ly S, Khin M, Prak S, Reach R, Talukder A, Tokmoh L, de La Barra S L, Hill P C, Herbison P, Gibson R S, 2012. Effect of micronutrient sprinkles on reducing anemia: a cluster-randomized effectiveness trial. Archives of Pediatrics & Adolescent Medicine 166, 842–850.

Jacoby Hanan G, 2002. Is There an Intrahousehold "Flypaper Effect"? Evidence from a School Feeding Programme. Economic Journal 112, 196–221. https://doi.org/10.1111/1468-0297.0j679

Jahan Khurshid, Roy S K, Mihrshahi Seema, Sultana Nigar, Khatoon Soofia, Roy Hema, Datta Laboni Rani, Roy Anjana, Jahan Sania, Khatun Wajiha, Nahar Naimun, Steele Jessica, 2014. Short-Term Nutrition Education Reduces Low Birthweight And Improves Pregnancy Outcomes Among Urban Poor Women In Bangladesh. Food and Nutrition Bulletin 35, 414–421. https://doi.org/10.1177/156482651403500403

Jaime Patricia Constante, Machado Flavia Mori Sarti, Westphal Márcia Faria, Monteiro Carlos Augusto, 2007. Nutritional Education And Fruit And Vegetable Intake: A Randomized Community Trial. Revista de Saúde Pública 41. https://doi.org/10.1590/S0034-89102006005000014

Jain M, 2015. India's struggle against Malnutrition - is the ICDS program the answer? World Development (Oxford) 67, 72–89. https://doi.org/10.1016/j.worlddev.2014.10.006

Jakobsen Marianne S, Sodemann Morten, Biai Sidu, Nielsen Jens, Aaby Peter, 2008. Promotion of exclusive breastfeeding is not likely to be cost effective in west Africa. A randomized intervention study from Guinea-Bissau. Acta Paediatrica (Sweden), Acta Paediatrica Scandinavica (Sweden) 97, 68–75. https://doi.org/10.1111/j.1651-2227.2007.00532.x

Jaleta Moti, Kassie Menale, Marenya Paswel, 2015. Impact of Improved Maize Variety Adoption on Household Food Security in Ethiopia: An Endogenous Switching Regression Approach. https://doi.org/10.22004/ag.econ.211566

Jamilian M, Bahmani F, Vahedpoor Z, Salmani A, Tajabadi-Ebrahimi M, Jafari P, Dizaji S H, Asemi Z, 2016. Effects of probiotic supplementation on metabolic status in pregnant women: a randomized, double-blind, placebo-controlled trial. Archives of Iranian Medicine 19, 687–692.

Janmohamed Amynah, Karakochuk Crystal D, Boungnasiri Somchit, Chapman Gwen E, Janssen Patricia A, Brant Rollin, Green Timothy J, McLean Judy, 2016. Prenatal supplementation with Corn Soya Blend Plus reduces the risk of maternal anemia in late gestation and lowers the rate of preterm birth but does not significantly improve maternal weight gain and birth anthropometric measurements in rural Cambodian women: a randomized trial. American Journal of Clinical Nutrition 103, 559–566. https://doi.org/10.3945/ajcn.114.104034

Jannat Kaniz, Luby Stephen P, Unicomb Leanne, Rahman Mahbubur, Winch Peter J, Hossain Md Iqbal, Stewart Christine P, 2020. Snack food consumption among Bangladeshi children, supplementary data from a large RCT. Maternal & child nutrition e12994. https://doi.org/10.1111/mcn.12994

Janzen Sarah A, Carter Michael R, 2013. After The Drought: The Impact Of Microinsurance On Consumption Smoothing And Asset Protection. NBER Working Paper Series 19702. https://doi.org/10.3386/w19702

Jarjou Landing MA, Laskey M Ann, Sawo Yankuba, Goldberg Gail R, Cole Timothy J, Prentice Ann, 2010. Effect of calcium supplementation in pregnancy on maternal bone outcomes in women with a low calcium intake. American Journal of Clinical Nutrition 92, 450–457. https://doi.org/10.3945/ajcn.2010.29217

Jatau A A, 2013. Effect of nutrition education programme on food-related-knowledge and attitudes of literate women in Pankshin community, Nigeria. Mediterranean Journal of Social Sciences 4, 35–41. https://doi.org/10.5901/mjss.2013.v4n16p35

Jeihooni A K, Kashfi S M, Kooshkghazi S Z, Kashfi S H, 2017. Effectiveness of a training program based in PRECEDE Model on fruit and vegetable consumption among female students. International Journal of Pediatrics 5, 5935–5944. https://doi.org/10.22038/ijp.2016.7969

Jeihooni Ali Khani, Kashfi Seyyed Mansour, Harsini Pooyan Afzali, 2019. Impact of an educational intervention on breastfeeding behaviour among pregnant women. British Journal of Midwifery 27, 33–42. https://doi.org/10.12968/bjom.2019.27.1.33

Jelliffe J, Bravo-Ureta B E, Deom C M, Okello D K, 2016. The Sustainability Of Farmer-Led Multiplication And Dissemination Of High-Yield And Disease Resistant Groundnut Varieties. University of Connecticut, Department of Agricultural and Resource Economics, Charles J. Zwick Center for Food and Resource Policy.

Jemmott J B, Zhang J, Jemmott L S, Icard L D, Ngwane Z, Makiwane M, O'Leary A, 2019. Intervention Increases Physical Activity and Healthful Diet Among South African Adolescents Over 54 Months: A Randomized Controlled Trial. The Journal of adolescent health : official publication of the Society for Adolescent Medicine 65, 139–146. https://doi.org/10.1016/j.jadohealth.2019.01.027

Jena Pradyot Ranjan, 2019. Can minimum tillage enhance productivity? Evidence from smallholder farmers in Kenya. Journal of Cleaner Production 218, 465–475. https://doi.org/10.1016/j.jclepro.2019.01.278

Jenaa Pradyot R, Chichaibelub Bezawit Beyene, Stellmachera Till, Grotea, Ulrike, 2012. The impact of coffee certification on small-scale producers' livelihoods: A case study from the Jimma Zone, Ethiopia. Agricultural Economics 43, 429–440. https://doi.org/10.1111/j.1574-0862.2012.00594.x

Jensen Melissa L, Frongillo Edward A, Leroy Jef L, Blake Christine E, 2016. Participating in a Food-Assisted Maternal and Child Nutrition and Health Program in Rural Guatemala Alters Household Dietary Choices. The Journal of nutrition 146, 1593–1600. https://doi.org/10.3945/jn.116.232157

Jensen N D, Barrett C B, Mude A, 2014. Index Insurance and Cash Transfers: A Comparative Analysis from Northern Kenya. MPRA Paper.

Jensen Robert T, Miller Nolan, 2008. Do Consumer Price Subsidies Really Improve Nutrition? 93, 1205–1223. https://doi.org/10.3386/w16102

Jeong J H, Korsiak J, Papp E, Shi J, Gernand A D, Al-Mahmud A, Roth D E, 2019. Determinants of vitamin D status of women of reproductive age in Dhaka, Bangladesh: insights from husband-wife comparisons. Current Developments in Nutrition 3. https://doi.org/10.1093/cdn/nzz112

Jha Raghbendra, Imai Katsushi S, Gaiha Raghav, 2008. Poverty, Undernutrition and Vulnerability in Rural India: Public Works versus Food Subsidy 135.

Jiang H, Li M, Wen L M, Hu Q, Yang D, He G, Baur L A, Dibley M J, Qian X, 2014. Effect of short message service on infant feeding practice: findings from a community-based study in Shanghai, China. JAMA Pediatrics 168, 471–478. https://doi.org/10.1001/jamapediatrics.2014.58

Jiang J, Xia X, Greiner T, Wu G, Lian G, Rosenqvist U, 2007. The effects of a 3-year obesity intervention in schoolchildren in Beijing. Child: Care, Health and Development 33, 641–646. https://doi.org/10.1111/j.1365-2214.2007.00738.x

Jiang Y Y, 2006. Effect of B vitamins-fortified foods on primary school children in Beijing. Asia-Pacific Journal of Public Health 18, 21–25. https://doi.org/10.1177/10105395060180020401

Jinabhai Champak C, Taylor Myra, Coutsoudis Anna, Coovadia Hoosen M, Tomkins Andrew M, Sullivan Keith R, 2001. A randomized controlled trial of the effect of antihelminthic treatment and micronutrient fortification on health status and school performance of rural primary school children. Annals of Tropical Paediatrics 21, 319–333. https://doi.org/10.1080/07430170120093508

Jing W, Huang Y, Liu X, Luo B, Yang Y, Liao S, 2015. The effect of a personalized intervention on weight gain and physical activity among pregnant women in China. International Journal of Gynecology and Obstetrics 129, 138–141. https://doi.org/10.1016/j.ijgo.2014.11.014

Jodlowski Margaret, Winter-Nelson Alex, Baylis Kathy, Goldsmith Peter D, 2016. Milk in the Data: Food Security Impacts from a Livestock Field Experiment in Zambia. World Development 77, 99–114. https://doi.org/10.1016/j.worlddev.2015.08.009

John Rand, Finn Tarp, 2009. Impact of an aquaculture extension project in Bangladesh. Journal of Development Effectiveness 1, 130–146. https://doi.org/10.1080/19439340902918110

Johnson Nancy, Wambile Ayago, 2011. The impacts of the Arid Lands Resource Management Project (ALRMPII) on livelihoods and vulnerability in the arid and semi-arid lands of Kenya. International Livestock Research Institute Research Report 25.

Jones Maria, Kondylis Florence, Mobarak Mushfiq, Stein Daniel, 2015. Evaluating the Integrated Agriculture Productivity Project in Bangladesh.

Joy Edward, 2019. Can dietary mineral deficiencies in a rural Malawi population be improved through the consumption of maize flour enriched using micronutrient fertilizers? Cochrane Central Register of Controlled Trials. https://doi.org/10.1186/ISRCTN85899451

Joy Edward J. M, Kalimbira Alexander A, Gashu Dawd, Ferguson Elaine L, Sturgess Joanna, Dangour Alan D, Banda Leonard, Chiutsi-Phiri Gabriella, Bailey Elizabeth H, Langley-Evans Simon C, Lark r Murray, Millar Kate, Young Scott D, Matandika Limbananzo, Mfutso-Bengo Joseph, Phuka John C, Phiri Felix P, Gondwe Jellita, Ander E Louise, Lowe Nicola M, Nalivata Patson C, Broadley Martin R, Allen Elizabeth, 2019. Can selenium deficiency in Malawi be alleviated through consumption of agro-biofortified maize flour? Study protocol for a randomised, double-blind, controlled trial. BMC 20. https://doi.org/10.1186/s13063-019-3894-2

Jumoke Akinlade Roseline, 2012. Impact Of Fadama-II Project On Poverty Reduction Of Rural Households In Nigeria. International Journal of Agricultural Science and Research (IJASR) 2, 18–38.

Jutamart Kupratakul, Surasak Taneepanichskul, Nipunporn Voramongkol, Vorapong Phupong, 2010. A randomized controlled trial of knowledge sharing practice with empowerment strategies in pregnant women to improve exclusive breastfeeding during the first six months postpartum. Journal of the Medical Association of Thailand 93, 1009–18.

Jyoti Vijay, Sheel Sharma, 2014. Impact of micronutrients sprinkle on weight and height of children aged 6-36 months in Tonk district of Rajasthan state. Indian Journal of Community Health 26, 294–299.

Kabahenda M K, Andress E L, Nickols S Y, Kabonesa C, Mullis R M, 2014. Promoting dietary diversity to improve child growth in less-resourced rural settings in Uganda [electronic resource]. Journal of human nutrition and dietetics 27, 143–151. https://doi.org/10.1111/jhn.12056

Kabululu Mwemezi Lutakyawa, Ngowi Helena Aminiel, Kimera Sharadhuli Iddi, Lekule Faustin Paul, Kimbi Eliakunda Casmir, Johansen Maria Vang, 2018. Effectiveness of an integrated intervention in the control of endo- and ectoparasites of pigs kept by smallholder farmers in Mbeya rural and Mbozi districts, Tanzania. Veterinary parasitology: regional studies and reports 13, 64–73. https://doi.org/10.1016/j.vprsr.2018.03.009

Kadiyala Suneetha, Prost Audrey, Harris-Fry Helen, O'Hearn Meghan, Pradhan Ronali, Pradhan Shibananth, Mishra Naba Kishore, Rath Suchitra, Nair Nirmala, Rath Shibanand, Tripathy Prasantha, Krishnan Sneha, Koniz-Booher Peggy, Danton Heather, Elbourne Diana, Sturgess Joanna, Beaumont Emma, Haghparast-Bidgoli Hassan, Skordis-Worrall Jolene, Mohanty Satyanarayan, Upadhay Avinash, Allen Elizabeth, 2018. Upscaling Participatory Action and Videos for Agriculture and Nutrition (UPAVAN) trial comparing three variants of a nutrition-sensitive agricultural extension intervention to improve maternal and child nutritional outcomes in rural Odisha, India: study protocol for a cluster randomised controlled trial. Trials 19, 176. https://doi.org/10.1186/s13063-018-2521-y

Kaestel P, Michaelsen K F, Aaby P, Friis H, 2005. Effects of prenatal multimicronutrient supplements on birth weight and perinatal mortality: a randomised, controlled trial in Guinea-Bissau. European Journal of Clinical Nutrition 59, 1081–1089. https://doi.org/10.1038/sj.ejcn.1602215

Kafle K, 2017. Impact of Coordinated Asset Transfers and Asset Ownership on Poverty Reduction, Women's Empowerment, and Child Education: Evidence from Zambia, and Tanzania. Impact of Coordinated Asset Transfers and Asset Ownership on Poverty Reduction, Women's Empowerment, and Child Education: Evidence from Zambia, and Tanzania. University of Illinois.

Kafle K R, 2014. Is There More than Milk? The Impact of Heifer International's Livestock Donation Program on Rural Livelihoods: Preliminary Findings from a Field Experiment in Zambia. Presented at the 2014 Annual Meeting, July 27-29, 2014, Minneapolis, Minnesota, Agricultural and Applied Economics Association. https://doi.org/10.22004/ag.econ.170629

Kafle Kashi, Michelson Hope, Winter-Nelson Alex, 2016. Does she have a say? The impact of livestock transfer and associated training on women's empowerment: Evidence from Zambia. Presented at the 2016 Agricultural & Applied Economics Association Annual Meeting, Boston, Massachusetts, July 31-August 2, Agricultural and Applied Economics Association. https://doi.org/10.22004/ag.econ.236271

Kain J, Uauy R, Albala, Vio F, Cerda R, Leyton B, 2004. School-based obesity prevention in Chilean primary school children: Methodology and evaluation of a controlled study. International Journal of Obesity 28, 483–493. https://doi.org/10.1038/sj.ijo.0802611

Kaiyatsa S, Ricker-Gilbert J, Jumbe C, 2017. Supply-side Crowding-out and Crowding-in Effects of Malawi's Farm Input Subsidy Program on Private-sector Input Marketing: A Quasi-experimental Field Study. Presented at the International Conference of Agricultural Economists (IAAE), Agricultural and Applied Economics Association. https://doi.org/10.22004/ag.econ.277739

Kaiyatsa Stevier, Ricker-Gilbert Jacob, Jumbe Charles, 2019. What Does Malawi's Fertiliser Programme Do to Private Sector Fertiliser Sales? A Quasi-experimental Field Study. Journal of Agricultural Economics 70, 332–52. https://doi.org/10.1111/1477-9552.12286

Kalimbira A A, MacDonald C, Simpson J R, 2010. The impact of an integrated community-based micronutrient and health programme on stunting in Malawian preschool children. Public Health Nutrition 13, 720–729. https://doi.org/10.1017/S1368980009991753

Kalra P, Das V, Agarwal A, Kumar M, Ramesh V, Bhatia E, Gupta S, Singh S, Saxena P, Bhatia V, 2012. Effect of vitamin D supplementation during pregnancy on neonatal mineral homeostasis and anthropometry of the newborn and infant. British Journal of Nutrition 108, 1052–1058. https://doi.org/10.1017/S0007114511006246

Kamakura Wagner A, Mazzon Jose Afonso, 2015. Measuring The Impact Of A Conditional Cash Transfer Program On Consumption Behavior With Propensity Scoring. Customer Needs and Solutions 2, 302–316. https://doi.org/10.1007/s40547-015-0037-0

Kamala A, Kimanya M, De Meulenaer, B, Kolsteren P, Jacxsens L, Haesaert G, Kilango K, Magoha H, Tiisekwa B, Lachat C, 2018. Post-harvest interventions decrease aflatoxin and fumonisin contamination in maize and subsequent dietary exposure in Tanzanian infants: A cluster randomised-controlled trial. World Mycotoxin Journal 11, 447–458. https://doi.org/10.3920/WMJ2017.2234

Kamau C N, Kabuage L W, Bett E K, 2018. Impact of improved indigenous chicken breeds on productivity. The case of smallholder farmers in Makueni and Kakamega counties, Kenya. Cogent Food & Agriculture 4.

Kamdem Cyrille Bergaly, 2016. Impact of cocoa farmer field schools on cocoa yield: empirical evidence of cocoa farmers in Cameroon. Presented at the International Conference of the African Association of Agricultural Economists, September 23-26, 2016, Addis Ababa, Ethiopia, African Association of Agricultural Economists (AAAE).

Kamdem Cyrille Bergaly, Melachio Tameko André, Nembot Ndeffo Luc, Gockwoski James, 2013. Impact of Collective Marketing by Cocoa Farmers' Organizations in Cameroon. Presented at the Fourth International Conference of the African Association of Agricultural Economists (AAAE), September 22-25, 2013, Hammamet, Tunisia, African Association of Agricultural Economists (AAAE). https://doi.org/10.22004/ag.econ.160482

Kampstra Nynke A, Van Hoan Nguyen, Broersen Britt C, de Pee Saskia, Koenders Damiet J. P. C, Bruins Maaike J, Schoop Rotraut, Mouquet-Rivier Claire, Traoré Tahirou, 2018. Energy and nutrient intake increased by 47-67% when amylase was added to fortified blended foods-a study among 12- to 35-month-old Burkinabe children. Maternal & Child Nutrition 14, e12459. https://doi.org/10.1111/mcn.12459

Kanani S J, Poojara R H, 2000. Supplementation with iron and folic acid enhances growth in adolescent Indian girls. Journal of Nutrition 130, 452S-455S. https://doi.org/10.1093/jn/130.2.452S

Kandpal Eeshani, Alderman Harold, Friedman Jed, Filmer Deon, Onishi Junko, Avalos Jorge, 2016. A Conditional Cash Transfer Program In The Philippines Reduces Severe Stunting. Journal of Nutrition 146, 1793–1800. https://doi.org/10.3945/jn.116.233684

Kang Y, Kim S, Sinamo S, Christian P, 2017a. Effectiveness of a community-based nutrition programme to improve child growth in rural Ethiopia: a cluster randomized trial. Maternal and Child Nutrition 13, e12349.

Kang Y, Suh Y K, Debele L, Juon H S, Christian P, 2017b. Effects of a community-based nutrition promotion programme on child feeding and hygiene practices among caregivers in rural Eastern Ethiopia. Public Health Nutrition 20, 1461–1472. https://doi.org/10.1017/S1368980016003347

Kangmennaang Joseph, Kerr Rachel Bezner, Lupafya Esther, Dakishoni Laifolo, Katundu Mangani, Luginaah Isaac, 2017. Impact of a participatory agroecological development project on household wealth and food security in Malawi. Food Security 9, 561–576. https://doi.org/10.1007/s12571-017-0669-z

Kantavichai Rapeepan, Mekhora Thamrong, Ganmanee Monthon, Thongsamui Ariya, Pornratanachotsakul Maytapon, 2019. Small-scale fishery income impact from artificial reefs in Lang Suan District, Chumphon Province, Thailand. Environment, development and sustainability 21, 1519–1531. https://doi.org/10.1007/s10668-017-0076-9

Kapur D, Sharma S, Agarwal K N, 2003. Effectiveness of nutrition education, iron supplementation or both on iron status in children. Indian Pediatrics 40, 1131–1144.

Karamba R W, Winters P C, 2015. Gender and agricultural productivity: Implications of the Farm Input Subsidy Program in Malawi. Agricultural Economics (United Kingdom) 46, 357–374. https://doi.org/10.1111/agec.12169

Karimi-Shahanjarini Akram, Rashidian Arash, Omidvar Nasrin, Majdzadeh Reza, 2013. Assessing and comparing the short-term effects of TPB only and TPB plus implementation intentions interventions on snacking behavior in Iranian adolescent girls: A cluster randomized trial. American Journal of Health Promotion 27, 152–161. https://doi.org/10.4278/ajhp.110311-QUAN-113

Karimuribo E D, Fitzpatrick J L, Bell C E, Swai E S, Kambarage D M, Ogden N H, Bryant M J, French N P, 2006. Clinical and subclinical mastitis in smallholder dairy farms in Tanzania: Risk, intervention and knowledge transfer. Preventive Veterinary Medicine 74, 84–98. https://doi.org/10.1016/j.prevetmed.2006.01.009

Karlan Dean, Gine Xavier, Ashraf Nava, 2008. Finding missing markets (and a disturbing epilogue): evidence from an export crop adoption and marketing intervention in Kenya. American Journal of Agricultural Economics 91, 973–990. https://doi.org/10.1111/j.l467-8276.2009.01319.x

Karlan Dean, Kutsoati Ed, McMillan Margaret, Udry Chris, 2011. A pilot experiment in rural Ghana / Crop price indemnified loans for farmers. The Journal of Risk and Insurance 78, 37–55. https://doi.org/10.1111/j.1539-6975.2010.01406.x

Kaseb F, Kimiagar M, Ghafarpoor M, Valaii N, 2002. Effect of traditional food supplementation during pregnancy on maternal weight gain and birthweight. International Journal for Vitamin and Nutrition Research 72, 389–393. https://doi.org/10.1024/0300-9831.72.6.389

Kassem H S, 2014. Effectiveness of different agricultural extension methods in providing knowledge and skills in disease prevention: a case of smallholder poultry production systems in Dakhalia Governorate of Egypt. Asian Journal of Agricultural Extension, Economics and Sociology 3, 91–107. https://doi.org/10.9734/AJAEES/2014/7010

Katenga-Kaunda L Z, Iversen P O, Holmboe-Ottesen G, Fjeld H, Mdala I, Kamudoni P R, 2020. Dietary intake and processes of behaviour change in a nutrition education intervention for pregnant women in rural Malawi: a cluster-randomised controlled trial. Public health nutrition 23, 1–10. https://doi.org/10.1017/S1368980020000294

Katungi Enid, Magreta Ruth, Letaa Emmanuel, Chirwa Rowland, Dambuleni Kelvin, Nyamwaro Sospeter, 2017. Adoption and impact of improved bean varieties on food security in Malawi. Adoption and impact of improved bean varieties on food security in Malawi 45–45.

Katz J, Khatry S K, LeClerq S C, Mullany L C, Yanik E L, Stoltzfus R J, Siegel E H, Tielsch J M, 2010. Daily supplementation with iron plus folic acid, zinc, and their combination is not associated with younger age at first walking unassisted in malnourished preschool children from a deficient population in rural Nepal. Journal of Nutrition 140, 1317–1321. https://doi.org/10.3945/jn.109.119925

Katz Joanne, Christian Parul, Dominici Francesca, Zeger Scott L, 2006. Treatment effects of maternal micronutrient supplementation vary by percentiles of the birth weight distribution in rural Nepal. Journal of Nutrition 136, 1389–1394. https://doi.org/10.1093/jn/136.5.1389

Kaur Jasvir, Kaur Manmeet, Chakrapani Venkatesan, Webster Jacqui, Santos Joseph Alvin, Kumar Rajesh, 2020. Effectiveness of information technology-enabled “SMART Eating” health promotion intervention: A cluster randomized controlled trial. PloS one 15, e0225892. https://doi.org/10.1371/journal.pone.0225892

Kaushal Neeraj, Muchomba Felix M, 2013. How consumer price subsidies affect nutrition. Working Paper Series - National Bureau of Economic Research (Massachusetts) 74, 25–42. https://doi.org/10.1016/j.worlddev.2015.04.006

Kaveh M H, Darabi F, Khalajabadi-Farahani F, Yaseri M, Mohammadi M J, Behrooz H R A, Shojaeizadeh D, Rohban A, 2018. The impact of a TPB-based educational intervention on nutritional behaviors in Iranian adolescent girls: a randomized controlled trial. Fresenius Environmental Bulletin 27, 4349–4356.

Kazianga H, de Walque D, Alderman H, 2014. School feeding programs, intrahousehold allocation and the nutrition of siblings: Evidence from a randomized trial in rural Burkina Faso. Journal of Development Economics 106, 15–34. https://doi.org/10.1016/j.jdeveco.2013.08.007

Kazianga Harounan, de Walque Damien, Alderman Harold, 2009. School Feeding Programs and th e Nutrition of Siblings: Evidence from a Randomized Trial in Rural Burkina Faso 908.

Ke Jian, Ouyang Yan-Qiong, Redding Sharon R, 2018. Family-centered breastfeeding education to promote primiparas' exclusive breastfeeding in China. Journal of Human Lactation 34, 365–378. https://doi.org/10.1177/0890334417737293

Kebaili R, Harrabi I, Maatoug J, Ghammam R, Slim S, Ghannem H, 2014. School-based intervention to promote healthy nutrition in Sousse, Tunisia. International Journal of Adolescent Medicine and Health 26, 253–258. https://doi.org/10.1515/ijamh-2013-0306

Kehoe S H, Harsha Chopra, Sahariah S A, Dattatray Bhat, Munshi R P, Falguni Panchal, Young S, Brown N, Tarwande Dnyaneshwar, Gandhi Meera, Margetts B M, Potdar R D, Fall C H. D, 2015. Effects of a food-based intervention on markers of micronutrient status among Indian women of low socio-economic status. British Journal of Nutrition 113, 813–821. https://doi.org/10.1017/S000711451400419X

Kerr R B, Berti P R, Shumba L, 2011. Effects of a participatory agriculture and nutrition education project on child growth in northern Malawi. Public health nutrition 14, 1466–72. https://doi.org/10.1017/S1368980010002545

Kerr Rachel Bezner, Berti Peter R, Shumba Lizzie, 2011. Effects of a participatory agriculture and nutrition education project on child growth in northern Malawi. Public Health Nutrition 14, 1466–1472.

Kerr Rachel Bezner, Kangmennaang Joseph, Dakishoni Laifolo, Nyantakyi-Frimpong Hanson, Lupafya Esther, Shumba Lizzie, Msachi Rodgers, Boateng Godfred Odei, Snapp Sieglinde S, Chitaya Annita, Maona Esther, Gondwe Tinkani, Nkhonjera Paul, Luginaah Isaac, 2019. Participatory agroecological research on climate change adaptation improves smallholder farmer household food security and dietary diversity in Malawi. Agriculture, Ecosystems and Environment 279, 109–121. https://doi.org/10.1016/j.agee.2019.04.004

Keshani P, Mousavi S M, Mirzaei Z, Hematdar Z, Maayeshi N, Mirshekari M, Ranjbaran H, Faghih S, 2016. Effect of a School-based Nutrition Education Program on the Nutritional Status of Primary School Children. Nutrition and Food Sciences Research 3, 27–34. https://doi.org/10.18869/acadpub.nfsr.3.1.27

Keshani Parisa, Kaveh Mohammad Hossein, Faghih Shiva, Salehi Moosa, 2019. Improving diet quality among adolescents, using health belief model in a collaborative learning context: a randomized field trial study. Health Education Research 34, 279–288. https://doi.org/10.1093/her/cyz009

Keshtkar Abbasali, Ebrahimi Mehdi, Khashayar Patricia, Abdollahi Zahra, Pouraram Hamed, Salehi Forouzan, Mohammadi Zahra, Khosrokhavar Roya, Larijani Bagher, 2015. Community Interventional Trial (CITFOMIST) of Vitamin D Fortified Versus Non-fortified Milk on Serum Levels of 25(OH) D in the Students of Tehran. Archives of Iranian medicine 18, 272–6.

Ketsuwan S, Baiya N, Hanprasertpong T, Suksamarnwong M, Srisuwan S, Puapornpong P, 2019. Comparison of LATCH scores between mothers' breastfeeding teaching done by registered and practical nurses during the immediate postpartum period; a randomized controlled trial. Journal of the Medical Association of Thailand 102, 41–45.

Khademloo M, Karami H, Ajami A, Yasari M, 2009. Comparison of the effectiveness of weekly and daily iron supplementation in 6 to 24 months old babies in urban health centers of Sari, Iran. Pakistan Journal of Biological Sciences 12, 195–197. https://doi.org/10.3923/pjbs.2009.195.197

Khadgawat R, Marwaha R K, Garg M K, Ramot R, Oberoi A K, Sreenivas V, Gahlot M, Mehan N, Mathur P, Gupta N, 2013. Impact of vitamin D fortified milk supplementation on vitamin D status of healthy school children aged 10-14 years. Osteoporosis International 24, 2335–2343. https://doi.org/10.1007/s00198-013-2306-9

Khadilkar A V, Sayyad M G, Sanwalka N J, Bhandari D R, Sadanand Naik, Khadilkar V V, Mughal M Z, 2010. Vitamin D supplementation and bone mass accrual in underprivileged adolescent Indian girls. Asia Pacific Journal of Clinical Nutrition 19, 465–472.

Khadilkar Anuradha, Kadam Nidhi, Chiplonkar Shashi, Fischer Philip R, Khadilkar Vaman, 2012. School-based calcium-vitamin D with micronutrient supplementation enhances bone mass in underprivileged Indian premenarchal girls. Bone 51, 1–7. https://doi.org/10.1016/j.bone.2012.03.029

Khadilkar Anuradha V, Kadam Nidhi S, Chiplonkar Shashi A, Khadilkar Vaman V, 2014. Effect of micronutrient supplementation on height velocity of underprivileged girls in comparison with un-supplemented healthy controls. Journal of Pediatric Endocrinology & Metabolism 27, 245–252. https://doi.org/10.1515/jpem-2013-0352

Khalib Mohd Khairuddin Noor, Manaf Zahara Abdul, Shahar Suzana, Ludin Arimi Fitri Mat, 2018. Delivery of healthy lunch to worksites: a two weeks pilot study in a sample of working adults in Selangor, Malaysia. Malaysian Journal of Nutrition 24, 575–585.

Khambalia A Z, O'Connor D L, Macarthur C, Dupuis A, Zlotkin S H, 2009. Periconceptional iron supplementation does not reduce anemia or improve iron status among pregnant women in rural Bangladesh. American Journal of Clinical Nutrition 90, 1295–1302. https://doi.org/10.3945/ajcn.2009.28350

Khan A I, Kabir I, Ekstrom E C, Asling-Monemi K, Alam D S, Frongillo E A, Yunus M, Arifeen S, Persson L A, 2011. Effects of prenatal food and micronutrient supplementation on child growth from birth to 54 months of age: a randomized trial in Bangladesh. Nutrition Journal 10. https://doi.org/10.1186/1475-2891-10-134

Khan M J, Ullah U, Usama U, Lowe N, Broadley M, Afridi M Z, Zia M, McArdle H J, Young S, 2017. Effect of agronomically biofortified zinc flour on zinc and selenium status in resource poor settings; a randomised

control trial. Presented at the Summer Meeting, 10–12 July 2017, Improving Nutrition in Metropolitan Areas. https://doi.org/10.1017/S0029665117003457

Khan Md Akhtaruzzaman, Alam Md Ferdous, Islam Khan Jahirul, 2012. The impact of co-management on household income and expenditure: An empirical analysis of common property fishery resource management in Bangladesh. Ocean and Coastal Management 65, 67–78. https://doi.org/10.1016/j.ocecoaman.2012.04.014

Khayyati F, Mansouri M, 2009. The effect of training movies on exclusive breastfeeding. Pakistan Journal of Medical Sciences 25, 434–438.

Khodabandeh Farzaneh, Mirghafourvand Mojgan, KamaliFard Mahin, Mohammad-Alizadeh-Charandabi Sakineh, Jafarabadi Mohammad Asghari, 2017. Effect of educational package on lifestyle of primiparous mothers during postpartum period: a randomized controlled clinical trial. Health Education Research 32, 399–411. https://doi.org/10.1093/her/cyx060

Khoramabadi M, Dolatian M, Hajian S, Zamanian M, Taheripanah R, Sheikhan Z, Mahmoodi Z, Seyedi-Moghadam A, 2015. Effects of Education Based on Health Belief Model on Dietary Behaviors of Iranian Pregnant Women. Global journal of health science 8, 230-239. https://doi.org/10.5539/gjhs.v8n2p230

Khoshnevisan F, Valaee N, Shaheedee N, Kimiagar M, Kalantaree N, 2004. Effect of nutrition education and diet modification in iron depleted preschool children in nurseries in Tehran: a pilot study. International journal for vitamin and nutrition research 74, 264–268. https://doi.org/10.1024/0300-9831.74.4.264

Khresheh Reham, Suhaimat Aida, Jalamdeh Fawzia, Barclay Lesley, 2011. The effect of a postnatal education and support program on breastfeeding among primiparous women: A randomized controlled trial. International Journal of Nursing Studies 48, 1058–1065. https://doi.org/10.1016/j.ijnurstu.2011.02.001

Kibira M, Affognon H, Njehia B, Muriithi B, Mohamed S, Ekesi S, 2015. Economic evaluation of integrated management of fruit fly in mango production in Embu County, Kenya. African Journal of Agricultural and Resource Economics 10, 343–353.

Kijima Y, Ito Y, Otsuka K, 2012. Assessing the Impact of Training on Lowland Rice Productivity in an African Setting: Evidence from Uganda. World Development 40, 1610–18. https://doi.org/10.1016/j.worlddev.2012.04.008

Kijima Y, Otsuka K, Sserunkuuma D, 2008. Assessing the Impact of NERICA on Income and Poverty in Central and Western Uganda. Agricultural Economics 38, 327–337. https://doi.org/10.1111/j.1574-0862.2008.00303.x

Kim Sunny S, Menon Purnima, 2019. Assessing the Feasibility of Integrating a Package of Maternal Nutrition Interventions Into Antenatal Care Services in Burkina Faso.

Kim Sunny S, Nguyen Phuong Hong, Tran Lan Mai, Sanghvi Tina, Mahmud Zeba, Haque Mohammad Raisul, Afsana Kaosar, Frongillo Edward A, Ruel Marie T, Menon Purnima, 2018. Large-scale social and behavior change communication interventions have sustained impacts on infant and young child feeding knowledge and practices: results of a 2-year follow-up study in Bangladesh. Journal of Nutrition 148, 1605–1614. https://doi.org/10.1093/jn/nxy147

Kim Sunny S, Nguyen Phuong Hong, Yohannes Yisehac, Abebe Yewelsew, Tharaney Manisha, Drummond Elizabeth, Frongillo Edward A, Ruel Marie T, Menon Purnima, 2019. Behavior Change Interventions Delivered through Interpersonal Communication, Agricultural Activities, Community Mobilization, and Mass Media Increase Complementary Feeding Practices and Reduce Child Stunting in Ethiopia. Journal of Nutrition 149, 1470–1481. https://doi.org/10.1093/jn/nxz087

Kimani-Murage E W, Griffiths P L, Wekesah F M, Wanjohi M, Muhia N, Muriuki P, Egondi T, Kyobutungi C, Ezeh A C, McGarvey S T, Musoke R N, Norris S A, Madise N J, 2017. Effectiveness of home-based nutritional counselling and support on exclusive breastfeeding in urban poor settings in Nairobi: a cluster randomized controlled trial. Globalization and Health 13. https://doi.org/10.1186/s12992-017-0314-9

Kinati Wole, Bekele Adam, Chinnan K P. M, 2014. Impact of farmer research group interventions on maize farmers in Central Rift Valley of Oromia: an empirical study. Journal of Agricultural Extension and Rural Development 6, 94–107. https://doi.org/10.5897/JAERD12.084

King Sondra, Prawitz Aimee D, Umoren Josephine, O'Gorman Thomas, 2007. The impact of high diastase malted barley flour on weight and height of malnourished children in Panama. Journal of Hunger and Environmental Nutrition 1, 23–35. https://doi.org/10.1300/J477v01n04_03

Kinra Sanjay, Sarma K V. Rameshwar, Ghafoorunissa, Mendu Vishnu Vardhana Rao, Ravikumar Radhakrishnan, Mohan Viswanthan, Wilkinson Ian B, Cockcroft John R, Smith George Davey, Ben-Shlomo Yoav, 2008. Effect of integration of supplemental nutrition with public health programmes in pregnancy and early childhood on cardiovascular risk in rural Indian adolescents: long term follow-up of Hyderabad nutrition trial. BMJ 337. https://doi.org/10.1136/bmj.a605

Kinuthia Emmanuel Karanja, Omondi Immaculate, Baltenweck Isabelle, 2017. Are Farmer Based Organizations Effective Channels For Impacting Input Use And Income? Evidence From Smallholder Dairy East Africa. https://doi.org/10.22004/ag.econ.260909

Kiondo Paul, Wamuyu-Maina Gakenia, Wandabwa Julius, Bimenya Gabriel S, Tumwesigye Nazarius Mbona, Okong Pius, 2014. The effects of vitamin C supplementation on pre-eclampsia in Mulago Hospital, Kampala, Uganda: a randomized placebo controlled clinical trial. BMC Pregnancy and Childbirth 14. https://doi.org/10.1186/1471-2393-14-283

Kishore Avinash, Chakrabarti Suman, 2015. Is More Inclusive More Effective?: The "New-Style" Public Distribution System In India. Food Policy 55. https://doi.org/10.1016/j.foodpol.2015.06.006

Kisioglu Ahmet Nesimi, Aslan Banu, Ozturk Mustafa, Aykut Mualla, Ilhan Inci, 2004. Improving Control Of High Blood Pressure Among Middle-Aged Turkish Women Of Low Socio-Economic Status Through Public Health Training. Croatian Medical Journal 45, 477–482.

Kizito A M, Kato E, 2018. Does linking farmers to markets work? Evidence from the World Food Programme's Purchase for Progress satellite collection points initiative in Uganda. African Journal of Agricultural and Resource Economics 13, 169–181.

Klevor Moses K, Haskell Marjorie J, Lartey Anna, Adu-Afarwuah Seth, Zeilani Mamane, Dewey Kathryn G, 2016. Lipid-Based Nutrient Supplements Providing Approximately the Recommended Daily Intake of Vitamin A Do Not Increase Breast Milk Retinol Concentrations among Ghanaian Women. The Journal of nutrition 146, 335–42. https://doi.org/10.3945/jn.115.217786

Kodkany Bhalchandra S, Bellad Roopa M, Mahantshetti Niranjana S, Westcott Jamie E, Krebs Nancy F, Kemp Jennifer F, Hambidge K Michael, 2013. Biofortification of pearl millet with iron and zinc in a randomized controlled trial increases absorption of these minerals above physiologic requirements in young children. Journal of Nutrition 143, 1489–1493. https://doi.org/10.3945/jn.113.176677

Kogi-Makau W, Makau W K, Macharia C W, Muroki N M, 2004. Dietary intake, feeding and care practices of children in Kathonzweni division, Makueni District, Kenya. East African Medical Journal 81, 402–407. https://doi.org/10.4314/eamj.v81i8.9201

Kojuri D M, Sakakky M, Hosseini F, Kherkhah M, 2009. Comparison of the effect of two methods of home visit for the promotion of exclusive breastfeeding in caesarean section mothers in Iran university of medical sciences 2008. International journal of gynaecology and obstetrics 107, S150.

Kondylis Florence, Mueller Valerie, Sheriff Glenn, Zhu Siyao, 2016. Do Female Instructors Reduce Gender Bias in Diffusion of Sustainable Land Management Techniques? Experimental Evidence From Mozambique. World Development 78, 436–449. https://doi.org/10.1016/j.worlddev.2015.10.036

Kondylis Florence, Mueller Valerie, Zhu Jessica, 2014. Seeing is believing? Evidence from an extension network experiment. Journal of Development Economics 125, 1–20. https://doi.org/10.1016/j.jdeveco.2016.10.004

Kongsbak Katja, Thilsted Shakuntala H, Wahed Mohammed A, 2008. Effect of consumption of the nutrient-dense, freshwater small fish Amblypharyngodon mola on biochemical indicators of vitamin A status in Bangladeshi children: a randomised, controlled study of efficacy. British journal of nutrition 99, 581–97. https://doi.org/10.1017/S000711450781912X

Konyole S O, Omollo S A, Kinyuru J N, Skau J K. H, Owuor B O, Estambale B B, Filteau S M, Michaelsen K F, Friis H, Roos N, Owino V O, 2019. Effect of locally produced complementary foods on fat-free mass, linear growth, and iron status among Kenyan infants: a randomized controlled trial. Maternal and Child Nutrition 15, e12836. https://doi.org/10.1111/mcn.12836

Koo H C, Poh B K, Ruzita A T, 2019. GReat-Child TrialTM based on Social Cognitive Theory improved knowledge, attitudes and practices toward whole grains among Malaysian overweight and obese children. BMC Public Health 19. https://doi.org/10.1186/s12889-019-7888-5

Kounnavong S, Sunahara T, Mascie-Taylo C G, Hashizume M, Okumura J, Moji K, Boupha B, Yamamoto T, 2011. Effect Of Daily Versus Weekly Home Fortification With Multiple Micronutrient Powder On Haemoglobin Concentration Of Young Children In A Rural Area, Lao People's Democratic Republic: A Randomised Trial. Nutrition Journal 10, 1–11. https://doi.org/10.1186/1475-2891-10-129

Kovalskys I, Herscovici C R, Rougier P I, De Gregorio M J, Zonis L, Orellana L, 2017. Study protocol of MINI SALTEN: a technology-based multi-component intervention in the school environment targeting healthy habits of first grade children and their parents. BMC Public Health 17, 10. https://doi.org/10.1186/s12889-017-4327-3

Kraaijvanger Richard, Veldkamp Tom, Almekinders Conny, 2015. Considering change: Evaluating four years of participatory experimentation with farmers in Tigray (Ethiopia) highlighting both functional and humanâ social aspects. Agricultural Systems 147, 38–50. https://doi.org/10.1016/j.agsy.2016.05.001

Krämer M, Kumar S, Vollmer S, 2018. Impact of delivering iron-fortified salt through a school feeding program on child health, education and cognition: Evidence from a randomized controlled trial in rural India (No. ISSN (2192-3248)). Georg-August-Universitaet Goettingen, GlobalFood, Department of Agricultural Economics and Rural Development.

Kramer M S, Chalmers B, Hodnett E D, Sevkovskaya Z, Dzikovich I, Shapiro S, Collet J P, Vanilovich I, Mezen I, Ducruet T, Shishko G, Zubovich V, Mknuik D, Gluchanina E, Dombrovskiy V, Ustinovitch A, Kot T, Bogdanovich N, Ovchinikova L, Helsing E, 2001. Promotion of Breastfeeding Intervention Trial (PROBIT). A randomized trial in the Republic of Belarus. JAMA, Journal of the American Medical Association 285, 413–420. https://doi.org/10.1001/jama.285.4.413

Kreausukon Pimchanok, Gellert Paul, Lippke Sonia, Schwarzer Ralf, 2012. Planning and self-efficacy can increase fruit and vegetable consumption: A randomized controlled trial. Journal of Behavioral Medicine 35, 443–451. https://doi.org/10.1007/s10865-011-9373-1

Krebs N F, Mazariegos M, Chomba E, Sami N, Pasha O, Tshefu A, Carlo W A, Goldenberg R L, Bose C L, Wright L L, Koso-Thomas M, Goco N, Kindem M, McClure Elizabeth M, Westcott J, Garces A, Lokangaka A, Manasyan A, Imenda E, Hartwell Tyler D, Hambidge M K, 2012. Randomized controlled trial of meat compared with multimicronutrient-fortified cereal in infants and toddlers with high stunting rates in diverse settings. American journal of clinical nutrition 96, 840-847. https://doi.org/10.3945/ajcn.112.041962

Krishnamurthy Prasad, Pathania Vikram, Tandon Sharad, 2014. Food Price Subsidies and Nutrition: Evidence from State Reforms to India's Public Distribution System. https://doi.org/10.2139/ssrn.2345675

Kronebusch N, Damon A, 2019. The impact of conditional cash transfers on nutrition outcomes: experimental evidence from Mexico. Economics and Human Biology 33, 169–180. https://doi.org/10.1016/j.ehb.2019.01.008

Kruger M C, Chan Y M, Lau C, Lau L T, Chin Y S, Kuhn-Sherlock B, Schollum L M, Todd J M, 2019. Fortified Milk Supplementation Improves Vitamin D Status, Grip Strength, and Maintains Bone Density in Chinese

Premenopausal Women Living in Malaysia. Bioresearch open access 8, 16-24. https://doi.org/10.1089/biores.2018.0027
Kruger M C, Chan Y M, Lau L T, Lau C C, Chin Y S, Kuhn-Sherlock B, Todd J M, Schollum L M, 2018. Calcium and vitamin D fortified milk reduces bone turnover and improves bone density in postmenopausal women over 1 year. European Journal of Nutrition 57, 2785–2794. https://doi.org/10.1007/s00394-017-1544-6
Krupnik T J, Ndiaye A B, Rodenburg J, Demont M, Shennan C, Settle W H, 2012. Improving irrigated rice production in the Senegal River Valley through experiential learning and innovation [electronic resource]. Agricultural systems 109, 101–112. https://doi.org/10.1016/j.agsy.2012.01.008
Kubuga C K, Hong H G, Song W O, 2019. Hibiscus sabdariffa Meal Improves Iron Status of Childbearing Age Women and Prevents Stunting in Their Toddlers in Northern Ghana. Nutrients 11, 198. https://doi.org/10.3390/nu11010198
Kuchenbecker J, Reinbott A, Mtimuni B, Krawinkel M B, Jordan I, 2017. Nutrition education improves dietary diversity of children 6-23 months at community-level: Results from a cluster randomized controlled trial in Malawi. PLoS ONE 12, 1–19. https://doi.org/10.1371/journal.pone.0175216
Kugo M, Keter L, Maiyo A, Kinyua J, Ndemwa P, Maina G, Otieno P, Songok E M, 2018. Fortification of Carica papaya fruit seeds to school meal snacks may aid Africa mass deworming programs: A preliminary survey. BMC Complementary and Alternative Medicine 18. https://doi.org/10.1186/s12906-018-2379-2
Kulkarni S, Tayade H P, Rathod O K, 2012. A prospective, double blind study to evaluate the benefit of multiple micronutrient supplementations versus placebo in school children. Journal of Pharmaceutical Research and Clinical Practice 2, 74–80.
Kumar Anjani, Mishra Ashok K, Saroj Sunil, Joshi P K, 2017. Institutional versus Non-institutional Credit to Agricultural Households in India: Evidence on Impact from a National Farmers' Survey. Economic Systems 41, 420–32. https://doi.org/10.1016/j.ecosys.2016.10.005
Kumar Anjani, Roy Devesh, Tripathi Gaurav, Joshi P K, Adhikari Rajendra P, 2016. Can Contract Farming Increase Farmers' Income and Enhance Adoption of Food Safety Practices. IFPRI.
Kumar Anjani, Verma Smriti, Prasad Amit Mohan, Kishore Avinash, Saroj Sunil, 2019. The Million Farmers School: an evaluation of its impact on farmers' agricultural knowledge in Uttar Pradesh, India. IFPRI - Discussion Papers 1888.
Kumar Malavika Vinod, Nirmalan Praveen K, Erhardt Juergen G, Rahmathullah Lakshmi, Rajagopalan Srinivasa, 2014. An efficacy study on alleviating micronutrient deficiencies through a multiple micronutrient fortified salt in children in South India. Asia Pacific Journal of Clinical Nutrition 23, 413–422. https://doi.org/10.6133/apjcn.2014.23.3.08
Kumar Neha, Quisumbing Agnes R, 2011. Access, Adoption, And Diffusion: Understanding The Long-Term Impacts Of Improved Vegetable And Fish Technologies In Bangladesh. Journal of Development Effectiveness 3, 193–219. https://doi.org/10.1111/j.l467-8276.2009.01325.x
Kumar Tivendra, Taneja Sunita, Sachdev H P. S, Refsum Helga, Yajnik Chittaranjan S, Bhandari Nita, Strand Tor A, 2017. Supplementation of vitamin B12 or folic acid on hemoglobin concentration in children 6-36 months of age: a randomized placebo controlled trial. Clinical Nutrition 36, 986–991. https://doi.org/10.1016/j.clnu.2016.07.002
Kumwenda C, Dewey K G, Hemsworth J, Ashorn P, Maleta K, Haskell M J, 2014. Lipid-based nutrient supplements do not decrease breast milk intake of Malawian infants. American Journal of Clinical Nutrition 99, 617–623. https://doi.org/10.3945/ajcn.113.076588
Kung'u J K, Pendame R, Ndiaye M B, Gerbaba M, Ochola S, Faye A, Basnet S, Frongillo E A, Wuehler S, De-Regil L M, 2018. Integrating nutrition into health systems at community level: impact evaluation of the Community-Based Maternal and Neonatal Health and Nutrition projects in Ethiopia, Kenya, and Senegal. Special Issue: Advancing maternal and neonatal health and nutrition in Africa: findings from an integrated community based multi-country project. 14, e12577. https://doi.org/10.1111/mcn.12577
Kuong Khov, Tor Pety, Perignon Marlene, Fiorentino Marion, Chamnan Chhoun, Berger Jacques, Burja Kurt, Dijkhuizen Marjoleine A, Parker Megan, Roos Nanna, Wieringa Frank T, 2019. Multi-Micronutrient Fortified Rice Improved Serum Zinc and Folate Concentrations of Cambodian School Children. A Double-Blinded Cluster-Randomized Controlled Trial. Nutrients 11, 2843–2843. https://doi.org/10.3390/nu11122843
Kurdi Sikandra, Ghorpade Yashodan, Ibrahim Hosam, 2019. The cash for nutrition intervention in Yemen: impact evaluation study. Regional Program Working Paper 19.
Kureishy Sumra, Khan Gul Nawaz, Arrif Shabina, Ashraf Khizar, Cespedes Angela, Habib Muhammad Atif, Hussain Imtiaz, Ullah Asmat, Turab Ali, Ahmed Imran, Zaidi Shehla, Soofi Sajid Bashir, 2017. A mixed methods study to assess the effectiveness of food-based interventions to prevent stunting among children under-five years in Districts Thatta and Sujawal, Sindh Province, Pakistan: study protocol. BMC Public Health 17. https://doi.org/10.1186/s12889-016-3976-y
Kuriyan R, Thankachan P, Selvam S, Pauline M, Srinivasan K, Kamath-Jha S, Vinoy S, Misra S, Finnegan Y, Kurpad A V, 2016. The effects of regular consumption of a multiple micronutrient fortified milk beverage on the micronutrient status of school children and on their mental and physical performance. Clinical nutrition (Edinburgh, Scotland) 35, 190-198. https://doi.org/10.1016/j.clnu.2015.02.001
Kuriyan Rebecca, Raj Tony, Srinivas S K, Vaz Mario, Rajendran R, Kurpad Anura V, 2007. Effect of Caralluma Fimbriata extract on appetite, food intake and anthropometry in adult Indian men and women. Appetite 48, 338–344. https://doi.org/10.1016/j.appet.2006.09.013
Kurosaki Takashi, Khan Hidayat Ullah, 2013. Household Vulnerability To Wild Animal Attacks In Developing Countries: Experimental Evidence From Rural Pakistan. PRIMCED Discussion Paper Series 37, Not applicable.

Kusuma Dian, McConnell Margaret, Berman Peter, Cohen Jessica, 2017. The impact of household and community cash transfers on children's food consumption in Indonesia. Preventive Medicine 152–158. https://doi.org/10.1016/j.ypmed.2017.04.020

Kutlu Ruhusen, Kara Fatih, Durduran Yasemin, Marakoglu Kamile, Civi Selma, 2007. Assessment of effects of pre- and post-training programme for healthcare professionals about breastfeeding. Journal of health, population, and nutrition 25, 382–386.

Kuwornu John K. M, Owusu Eric S, 2012. Irrigation Access And Per Capita Consumption Expenditure In Farm Households: Evidence From Ghana. Journal of Development and Agricultural Economics 4, 78–92. https://doi.org/10.5897/JDAE11.105

Lachat C K, Van Camp J H, Mamiro P S, Wayua F O, Opsomer A S, Roberfroid D A, Kolsteren P W, 2006. Processing of complementary food does not increase hair zinc levels and growth of infants in Kilosa district, rural Tanzania. British Journal of Nutrition 95, 174–180. https://doi.org/10.1079/BJN20051610

Lachman Jamie, Wamoyi Joyce, Spreckelsen Thees, Wight Daniel, Maganga Jane, Gardner Frances, 2020. Combining parenting and economic strengthening programmes to reduce violence against children: a cluster randomised controlled trial with predominantly male caregivers in rural Tanzania. BMJ Global Health 5, e002349. https://doi.org/10.1136/bmjgh-2020-002349

Lagerkvist Carl Johan, Okello Julius, Muoki Penina, Heck Simon, Prain Gordon, 2016. Nutrition promotion messages: the effect of information on consumer sensory expectations, experiences and emotions of vitamin A-biofortified sweet potato. Food Quality and Preference 52, 143–152. https://doi.org/10.1016/j.foodqual.2016.04.009

Lamboglia Carminda Maria Goersch Fontenele, 2015. Transdisciplinary Program Against Childhood Obesity. ClinicalTrials.gov.

Landim L A. S. R, Pessoa M L. S. B, Brandão A C. A. S, Morgano M A, Araújo M A. M, Rocha M M, Arêas J A. G, Moreira-Araújo R S. R, 2016. Impact of the two different iron fortified cookies on treatment of anemia in preschool children in Brazil. Nutricion Hospitalaria 33, 1142–1148. https://doi.org/10.20960/nh.579

Lapar Ma Lucila A, Toan Nguyen Ngoc, Zou Chengyi, Liu Jinyuan, Li Xianglin, Randolph Thomas F, 2011. An impact evaluation of technology adoption by smallholders in Sichuan, China: the case of sweet potato-pig systems. Presented at the 55th Annual AARES National Conference Melbourne, Victoria, Australian Agricultural and Resource Economics Society.

Larochelle Catherine, Alwang Jeffrey, Travis Elli, Barrera Victor Hugo, Dominguez Andrade, Juan Manuel, 2019. Did You Really Get the Message? Using Text Reminders to Stimulate Adoption of Agricultural Technologies. Journal of Development Studies 55, 548–64. https://doi.org/10.1080/00220388.2017.1393522

Larsen Anna Folke, Lilleør Helene Bie, 2014. Beyond the field: the impact of Farmer Field Schools on food security and poverty alleviation. World Development 64, 843–859. https://doi.org/10.1016/j.worlddev.2014.07.003

Larson Leila M, Young Melissa F, Bauer Patricia J, Mehta Rukshan, Girard Amy Webb, Ramakrishnan Usha, Verma Pankaj, Chaudhuri Indrajit, Srikantiah Sridhar, Martorell Reynaldo, 2018. Effectiveness of a home fortification programme with multiple micronutrients on infant and young child development: a cluster-randomised trial in rural Bihar, India. British Journal of Nutrition 120, 176–187. https://doi.org/10.1017/s000711451800140x

Latham M C, Ash D, Ndossi G, Mehansho H, Tatala S, 2001. Micronutrient dietary supplements - A new fourth approach. Archivos Latinoamericanos de Nutricion 51, 37–41.

Lawal B O, Jibowo A A, 2006. Impact of household food security and nutrition programme on the nutritional status of children in Oyo state, Nigeria. Nutrition and Food Science 36, 327–336. https://doi.org/10.1108/00346650610703171

Lawande A, Di Gravio C, Potdar R D, Sahariah S A, Gandhi M, Chopra H, Sane H, Kehoe S H, Marley-Zagar E, Margetts B M, Jackson A A, Fall C H D, 2018. Effect of a micronutrient-rich snack taken preconceptionally and throughout pregnancy on ultrasound measures of fetal growth: the Mumbai Maternal Nutrition Project (MMNP). Maternal and Child Nutrition 14, e12441. https://doi.org/10.1111/mcn.12441

Le Port A, Bernard T, Hidrobo M, Birba O, Rawat R, Ruel M T, 2017. Delivery of iron-fortified yoghurt, through a dairy value chain program, increases hemoglobin concentration among children 24 to 59 months old in Northern Senegal: A cluster-randomized control trial. PloS one 12, e0172198. https://doi.org/10.1371/journal.pone.0172198

Le Roux Ingrid M, Rotheram-Borus Mary Jane, Stein Judith, Tomlinson Mark, 2014. The impact of paraprofessional home visitors on infants' growth and health at 18 months. Vulnerable Children and Youth Studies 9, 291–304. https://doi.org/10.1080/17450128.2014.940413

Lecoutere E, 2017. The impact of agricultural co-operatives on women's empowerment: Evidence from Uganda. Journal of Co-operative Organization and Management 5, 14–27. https://doi.org/10.1016/j.jcom.2017.03.001

Lecoutere E, Spielman D, van Campenhout B, 2019. Women's empowerment, agricultural extension, and digitalization: disentangling information and role-model effects in rural Uganda. IFPRI - Discussion Papers.

Lee R, Singh Lauren, van Liefde D, Callaghan-Gillespie M, Steiner-Asiedu M, Saalia K, Edwards C, Serena A, Hershey T, Manary M J, 2018. Milk powder added to a school meal increases cognitive test scores in Ghanaian children. Journal of Nutrition 148, 1177–1184. https://doi.org/10.1093/jn/nxy083

Leight Jessica, Awonon Josué, Pedehombga Abdoulaye, Ganaba Rasmané, Martinez Elena M, Heckert Jessica, Gelli Aulo, 2020. The impact of an integrated value chain intervention on household poultry production in Burkina Faso: Evidence from a randomized controlled trial. IFPRI.

Leme A C. B, Lubans D R, Guerra P H, Dewar D, Toassa E C, Philippi S T, 2016. Preventing obesity among Brazilian adolescent girls: six-month outcomes of the Healthy Habits, Healthy Girls-Brazil school-based randomized controlled trial. Preventive Medicine 86, 77–83. https://doi.org/10.1016/j.ypmed.2016.01.020

Lentza E, Upton J, 2016. Benefits To Smallholders? Evaluating The World Food Programme's Purchase For Progress Pilot. Global Food Security 11, 54–63. https://doi.org/10.1016/j.gfs.2016.07.003

Leroy Jef L, Gadsden Paola, Rodríguez-Ramírez Sonia, Cossío Teresa Gonza lez de, 2010. Cash and in-kind transfers in poor rural communities in Mexico increase household fruit, vegetable, and micronutrient consumption but also lead to excess energy consumption. Journal of Nutrition 140, 612–617. https://doi.org/10.3945/jn.109.116285

Leroy Jef L, García-Guerra Armando, García Raquel, Dominguez Clara, Rivera Juan, Neufeld Lynnette M, 2008. The Oportunidades program increases the linear growth of children enrolled at young ages in urban Mexico. Journal of Nutrition 138, 793–798. https://doi.org/10.1093/jn/138.4.793

Leroy Jef L, Olney Deanna, Ruel Marie, 2016. Tubaramure, a Food-Assisted Integrated Health and Nutrition Program in Burundi, Increases Maternal and Child Hemoglobin Concentrations and Reduces Anemia: a Theory-Based Cluster-Randomized Controlled Intervention Trial. Journal of nutrition 146, 1601-1608. https://doi.org/10.3945/jn.115.227462

Leuveld Koen, Nillesen Eleonora, Pieters Janneke, Ross Martha, Voors Maarten, Sonne Elise Wang, 2018. Agricultural extension and input subsidies to reduce food insecurity. Evidence from a field experiment in the Congo.

Levere Michael, Acharya Gayatri, Bharadwaj Prashant, 2016. The role of information and cash transfers on early childhood development: evidence from Nepal., Policy Research Working Paper - World Bank. World Bank, USA.

Levi R, Rajan M, Singhvi S, Yanchong Z, 2020. The impact of unifying agricultural wholesale markets on prices and farmers' profitability. Proceedings of the National Academy of Sciences of the United States of America 117, 2366–2371. https://doi.org/10.1073/pnas.1906854117

Levy T S, Ruán C M, Castellanos C A, Coronel A S, Aguilar A J, Humaran I M G, 2012. Effectiveness of a diet and physical activity promotion strategy on the prevention of obesity in Mexican school children. BMC Public Health 12, 13. https://doi.org/10.1186/1471-2458-12-15222381137

Lewycka Sonia, Mwansambo Charles, Rosato Mikey, Kazembe Peter, Phiri Tambosi, Mganga Andrew, Chapota Hilda, Malamba Florida, Kainja Esther, Newell Marie-Louise, Greco Giulia, Pulkki-Brannstrom Anni-Maria, Skordis-Worrall Jolene, Vergnano Stefania, Osrin David, Costello Anthony, 2013. Effect of women's groups and volunteer peer counselling on rates of mortality, morbidity, and health behaviours in mothers and children in rural Malawi (MaiMwana): A factorial, cluster-randomised controlled trial. The Lancet 381, 1721–1735. https://doi.org/10.1016/S0140-6736%2812%2961959-X

Li Bai, Pallan Miranda, Liu Wei Jia, Hemming Karla, Frew Emma, Lin Rong, Liu Wei, Martin James, Zanganeh Mandana, Hurley Kiya, Cheng Kar Keung, Adab Peymane, 2019. The CHIRPY DRAGON intervention in preventing obesity in Chinese primary-school--aged children: A cluster-randomised controlled trial. PLoS medicine 16, e1002971. https://doi.org/10.1371/journal.pmed.1002971

Li H T, Brouwer I D, Nguyen K C, Burema J, Kok F J, 2007. Effect of iron fortification and de-worming on anaemia and iron status of Vietnamese schoolchildren. British journal of nutrition 97, 955–962.

Li L, Zhao X, Wang J, Muzhingi T, Suter P M, Tang G W, Yin S, 2012. Spirulina can increase total-body vitamin A stores of Chinese school-age children as determined by a paired isotope dilution technique. Journal of Nutritional Science 1. https://doi.org/10.1017/jns.2012.21

Li Min, Wu Jing-Huan, Tong-Xiang Ren, Wang Rui, Li Wei-Dong, Piao Jian-Hua, Jun Wang, Yang Xiao-Guang, 2015. Effect of NaFeEDTA-fortified soy sauce on zinc absorption in children. Food and Function 6, 788–792. https://doi.org/10.1039/c4fo00722k

Li N, Yan Lijing L, I Niu Weny, Yao Chen, Feng Xiangxian, Jianxin Zhang, Jingpu Shi, Yuhong Zhang, Ruijuan Zhang, Zhixin Hao, Hongling Chu, Jing Zhang, Xian Li, Jianhong Pan, Zhifang Li, Jixin Sun, Bo Zhou, Yi Zhao, Yan Yu, Michael Engelgau, Darwin Labarthe, Jixiang Ma, Stephen MacMahon, Paul Elliott, Yangfeng Wu, Bruce Neal, 2016. A Large-Scale Cluster Randomized Trial to Determine the Effects of Community-Based Dietary Sodium Reduction - the China Rural Health Initiative Sodium Reduction Study.

Li Q, Yan H, Zeng L, Cheng Y, Liang W, Dang S, Wang Q, Tsuji I, 2009. Effects of Maternal Multimicronutrient Supplementation on the Mental Development of Infants in Rural Western China: Follow-up Evaluation of a Double-Blind, Randomized, Controlled Trial. Pediatrics 123, e685-92. https://doi.org/10.1542/peds.2008-3007

Li Xiao-nan, Rui Li, 2013. The effect of grain subsidies on the production and farmers' income in China. Presented at the 2013 International Conference on Management Science & Engineering (20th), pp. 2162–2167. https://doi.org/10.1109/ICMSE.2013.6586563

Li Yun-feng, Hu Na-shun, Tian Xiao-bin, Li Li, Wang Shang-ming, Xu Xiang-bo, Wang Ning, Shi Cui-ge, Zhu Jin-cai, Sun Jing-sheng, Bao Jin-hua, Lang Si-hai, Li Chang-jiang, Fan De-gang, Zhang Ling, Zhang Bin, Gao Yu, He Bin, Wang Jie-dong, Zhang Shu-cheng, 2014. Effect of daily milk supplementation on serum and umbilical cord blood folic acid concentrations in pregnant Han and Mongolian women and birth characteristics in China. Asia pacific journal of clinical nutrition 23, 567-574. https://doi.org/10.6133/apjcn.2014.23.4.18

Lietz Georg, Henry C Jeya K, Mulokozi Generose, Mugyabuso Joseph KL, Ballart Angelina, Ndossi Godwin D, Lorri Wilbald, Tomkins Andrew, 2001. Comparison of the effects of supplemental red palm oil and sunflower oil on maternal vitamin A status. American journal of clinical nutrition 74, 501-509. https://doi.org/10.1093/ajcn/74.4.501

Lin Carol A, Manary Mark J, Maleta Ken, Briend André, Ashorn Per, 2008. An energy-dense complementary food is associated with a modest increase in weight gain when compared with a fortified porridge in Malawian children aged 6-18 months. Journal of Nutrition 138, 593–598. https://doi.org/10.1093/jn/138.3.593

Lin Chung-Ying, Scheerman Janneke F. M, Yaseri Mehdi, Pakpour Amir H, Webb Thomas L, 2017. A cluster randomised controlled trial of an intervention based on the Health Action Process Approach for increasing fruit and vegetable consumption in Iranian adolescents. Psychology & Health 32, 1449–1468. https://doi.org/10.1080/08870446.2017.1341516

Lin M, Pan L P, Han J, Li L, Jiang J X, Jin R M, 2016. Behavioral intervention reduces unhealthy eating behaviors in preschool children via a behavior card approach. Journal of Huazhong University of Science and Technology Medical sciences 36, 895-903. https://doi.org/10.1007/s11596-016-1681-9

Lin Q, Peymané A, Karla H, Yang L, Hong Q H, Li M, Deng J, Shi J, Chen J, 2015. Health allowance for improving the nutritional status and development of 3–5-year-old left-behind children in poor rural areas of China: study protocol for a cluster randomised trial. Trials 16. https://doi.org/10.1186/s13063-015-0897-5

Lin Q, Yang L, Li F, Qin H, Li M, Chen J, Deng J, Hu X, 2017. A village-based intervention: promoting folic acid use among rural Chinese women. Nutrients 9, 174. https://doi.org/10.3390/nu9020174

Lind T, Lonnerdal B, Stenlund H, Gamayanti I L, Ismail D, Seswandhana R, Persson L A, 2004. A community-based randomized controlled trial of iron and zinc supplementation in Indonesian infants: effects on growth and development. American Journal of Clinical Nutrition 80, 729–736. https://doi.org/10.1093/ajcn/80.3.729

Liu N, Mao L, Sun X, Liu L, Yao P, Chen B, 2009. The effect of health and nutrition education intervention on women's postpartum beliefs and practices: a randomized controlled trial. BMC public health 9, 9. https://doi.org/10.1186/1471-2458-9-45

Liu R, Gao Z, Nayga R M, Shi L, Oxley L, Ma H, 2020. Can "green food" certification achieve both sustainable practices and economic benefits in a transitional economy? The case of kiwifruit growers in Henan Province, China. Agribusiness 36, 675–692. https://doi.org/10.1002/agr.21641

Liu X, Zhao Q, Chen Q, 2019. Better nutrition, healthier mind? Experimental evidence from primary schools in rural northwestern China. Journal of Integrative Agriculture 18, 1768–1779. https://doi.org/10.1016/S2095-3119(19)62587-6

Liu Y, Ma W, Renwick A, Fu X, 2019. The role of agricultural cooperatives in serving as a marketing channel: Evidence from low-income regions of Sichuan province in China. International Food and Agribusiness Management Review 22, 265–282. https://doi.org/10.22434/IFAMR2018.0058

Liu Ying, Wang Chenggang, Tang Zeng, Nan Zhibiao, 2019. Does Farmland Rental Contribute to Reduction of Agrochemical Use? A Case of Grain Production in Gansu Province, China. Sustainability 11. https://doi.org/10.3390/su11082402

Liu YongFang, Chen Li, Gong Min, Liu YouXue, Chen Jie, Qu Ping, Li TingYu, 2013. Effects of vitamin A combined with other micronutrients on nutritional status of 3-6 years old children. Academic Journal of Second Military Medical University 34, 828–834. https://doi.org/10.3724/SP.J.1008.2013.00828

Liu Zheng, Wu Yangfeng, Niu Wen-Yi, Feng Xiangxian, Lin Yi, Gao Aiyu, Zhang Fang, Fang Hai, Gao Pei, Li Hui-Juan, Wang Haijun, study team for the DECIDE-children study, 2019. A school-based, multi-faceted health promotion programme to prevent obesity among children: protocol of a cluster-randomised controlled trial (the DECIDE-Children study). BMJ open 9, e027902. https://doi.org/10.1136/bmjopen-2018-027902

Liverpool-Tasie Lenis Saweda O, 2014. Do vouchers improve government fertilizer distribution? Evidence from Nigeria. Agricultural Economics 45, 393–407. https://doi.org/10.1111/agec.12094

Liyanage C, Zlotkin S, 2002. Bioavailability of iron from micro-encapsulated iron sprinkle supplement. Food and Nutrition Bulletin 133–7.

Lo N B, Aaron G J, Hess S Y, Dossou N I, Guiro A T, Wade S, Brown K H, 2011. Plasma zinc concentration responds to short-term zinc supplementation, but not zinc fortification, in young children in Senegal1,2. American journal of clinical nutrition 93, 1348-1355. https://doi.org/10.3945/ajcn.111.012278

Locks L M, Manji K P, McDonald C M, Kupka R, Kisenge R, Aboud S, Wang MoLin, Fawzi W W, Duggan C P, 2016. Effect of zinc and multivitamin supplementation on the growth of Tanzanian children aged 6-84 wk: a randomized, placebo-controlled, double-blind trial. American Journal of Clinical Nutrition 103, 910–918. https://doi.org/10.3945/ajcn.115.120055

Locks L M, Nanama S, Addo O Y, Albert B, Sandalinas F, Nanema A, Whitehead R D, Garg A, Kupka R, Jefferds M E, Tripp K, 2019. An integrated infant and young child feeding and small-quantity lipid-based nutrient supplementation programme in the Democratic Republic of Congo is associated with improvements in breastfeeding and handwashing behaviours but not dietary diversity. Maternal & child nutrition 15, e12784. https://doi.org/10.1111/mcn.12784

Long K Z, Rosado J L, Montoya Y, Solano M de L, Hertzmark E, DuPont H L, Santos J I, 2007. Effect of vitamin A and zinc supplementation on gastrointestinal parasitic infections among Mexican children. Pediatrics 120, e846–e855. https://doi.org/10.1542/peds.2006-2187

Long K Z, Santos J I, Rosado J L, Lopez-Saucedo C, Thompson-Bonilla R, Abonce M, DuPont H L, Hertzmark E, Estrada-Garcia T, 2006. Impact of vitamin A on selected gastrointestinal pathogen infections and associated diarrheal episodes among children in Mexico City, Mexico. Journal of Infectious Diseases 194, 1217–1225. https://doi.org/10.1086/508292

Longfils Philippe, Monchy Didier, Weinheimer Heike, Chavasit Visith, Nakanishi Yukiko, Schümann Klaus, 2008. A comparative intervention trial on fish sauce fortified with NaFe-EDTA and FeSO4+citrate in iron deficiency anemic school children in Kampot, Cambodia. Asia Pacific Journal of Clinical Nutrition 17, 250–257.

Lonnerdal B, Kvistgaard A S, Peerson J M, Donovan S M, Peng Y M, 2016. Growth, Nutrition, and Cytokine Response of Breast-fed Infants and Infants Fed Formula With Added Bovine Osteopontin. Journal of pediatric gastroenterology and nutrition 62, 650–7. https://doi.org/10.1097/MPG.0000000000001005

Lopes D C. F, Silvestre M P. C, Silva V D. M, Moreira T G, Garcia E S, Silva M R, 2013. Dietary supplementation of conjugated linoleic acid, added to a milk drink, in women. Asian Journal of Scientific Research 6, 679–690. https://doi.org/10.3923/ajsr.2013.679.690

Lopes M M. G. D, Brito N J. N. de, Rocha E D. de M, Franca M C, Almeida M das G. de, Brandao Neto J, 2015. Nutritional assessment methods for zinc supplementation in prepubertal non-zinc-deficient children. Food & Nutrition Research 59, 29733. https://doi.org/10.3402/fnr.v59.29733

Lopez César Augusto, Salazar Lina, 2017. Unraveling the threads of decentralized community-based irrigation systems in Bolivia. IDB Working Paper Series - Inter-American Development Bank IDB WORKING PAPER SERIES Nº IDB-WP-858.

Lopez Cesar Augusto, Salazar Lina, Salvo Carmine Paolo De, 2017. Agricultural Input Subsidies And Productivity: The Case Of Paraguayan Farmers. Inter-American Development Bank (IDB) Working Paper Series 802, 1–26. https://doi.org/10.18235/0000683

López de Romaña, G., Cusirramos Sandra, de Romaña Daniel López, Gross Rainer, 2005. Efficacy of Multiple Micronutrient Supplementation for Improving Anemia, Micronutrient Status, Growth, and Morbidity of Peruvian Infants. The Journal of Nutrition 135, 646S-652S. https://doi.org/10.1093/jn/135.3.646S

Lopez-Teros V, Quihui-Cota L, Méndez-Estrada R O, Grijalva-Haro M I, Esparza-Romero J, Valencia M E, Green M H, Tang G, Pacheco-Moreno B I, Tortoledo-Ortiz O, Astiazaran-Garcia H, 2013. Vitamin a-fortified milk increases total body vitamin a stores in mexican preschoolers. Journal of Nutrition 143, 221–226. https://doi.org/10.3945/jn.112.165506

Louzada M L. da C, Campagnolo P dal B, Rauber F, Vitolo M R, 2012. Long-term effectiveness of maternal dietary counseling in a low-income population: a randomized field trial. Pediatrics 129, e1477–e1484. https://doi.org/10.1542/peds.2011-3063

Low J W, Arimond M, Osman N, Cunguara B, Zano F, Tschirley D, 2007. A food-based approach introducing orange-fleshed sweet potatoes increased vitamin A intake and serum retinol concentrations in young children in rural Mozambique. Journal of Nutrition 137, 1320–1327. https://doi.org/10.1093/jn/137.5.1320

Lozoff B, Castillo M, Clark K M, Smith J B, 2012. Iron-fortified vs low-iron infant formula: developmental outcome at 10 years. Archives of pediatrics & adolescent medicine 166, 208-215. https://doi.org/10.1001/archpediatrics.2011.197

Lu C, Mejia-Guevara I, Hill K, Farmer P, Subramanian S V, Binagwaho A, 2016. Community-based health financing and child stunting in rural Rwanda. American Journal of Public Health 106, 49–55. https://doi.org/10.2105/AJPH.2015.302913

Lu Yanhui, Fu Xiaomin, Zhang Lili, Liu Minyan, Cheng Xiaoling, Yan Shuangtong, Li Nan, Miao XinYu, Sun Banruo, Li Chunlin, 2018. Effects of stratified vitamin D supplementation in middle-aged and elderly individuals with vitamin D insufficiency. Hormone and Metabolic Research 50, 747–753. https://doi.org/10.1055/a-0746-5031

Lua P L, Wan Dali W P E, Shahril M R, 2013. Multimodal nutrition education intervention: a cluster randomised controlled trial study on weight gain and physical activity pattern among university students in Terengganu, Malaysia. Malaysian Journal of Nutrition 19, 339–352.

Luby Stephen P, Rahman Mahbubur, Arnold Benjamin F, Unicomb Leanne, Ashraf Sania, Winch Peter J, Stewart Christine P, Begum Farzana, Hussain Faruqe, Benjamin-Chung Jade, Leontsini Elli, Naser Abu M, Parvez Sarker M, Hubbard Allan E, Lin Audrie, Nizame Fosiul A, Jannat Kaniz, Ercumen Ayse, Ram Pavani K, Das Kishor K, Abedin Jaynal, Clasen Thomas F, Dewey Kathryn G, Fernald Lia C, Null Clair, Ahmed Tahmeed, Colford Jr John M, 2018. Effects of water quality, sanitation, handwashing, and nutritional interventions on diarrhoea and child growth in rural Bangladesh: a cluster randomised controlled trial. Lancet Global Health 6, e302–e315. https://doi.org/10.1016/S2214-109X(17)30490-4

Lundeen E, Schueth T, Toktobaev N, Zlotkin S, Hyder S M Z, Houser R, 2010. Daily Use Of Sprinkles Micronutrient Powder For 2 Months Reduces Anemia Among Children 6 To 36 Months Of Age In The Kyrgyz Republic: A Cluster-Randomised Trial. Food and Nutrition Bulletin 31, 446–460. https://doi.org/10.1177/156482651003100307

Luo R, Yue A, Zhou H, Shi Y, Zhang L, Martorell R, Medina A, Rozelle S, Sylvia S, 2017. The effect of a micronutrient powder home fortification program on anemia and cognitive outcomes among young children in rural China: a cluster randomized trial. BMC Public Health 17, 1–16. https://doi.org/10.1186/s12889-017-4755-0

Luo Renfu, Shi Yaojiang, Zhang Linxiu, Liu, Chengfang, Rozelle, Scott, Sharbono Brian, Yue Ai, Zhao Qiran, Martorell Reynaldo, 2012. Nutrition and Educational Performance in Rural China's Elementary Schools: Results of a Randomized Control Trial in Shaanxi Province. Economic Development and Cultural Change 60, 735–772. https://doi.org/10.1086/665606

Luoto J E, Garcia I L, Aboud F E, Fernald L C H, Singla D R, 2019. Testing means to scale early childhood development interventions in rural Kenya: the Msingi Bora cluster randomized controlled trial study design and protocol. BMC Public Health 19, 15. https://doi.org/10.1186/s12889-019-6584-9

Lv Shengmin, Xie Lijun, Xu Dong, Wang YuChun, Jia Lihui, Du Yonggui, 2016. Effect of reducing iodine excess on children's goiter prevalence in areas with high iodine in drinking water. Endocrine 52, 296–304. https://doi.org/10.1007/s12020-015-0742-3

Ly C T, Diallo A, Simondon F, Simondon K B, 2006. Early short-term infant food supplementation, maternal weight loss and duration of breast-feeding: a randomised controlled trial in rural Senegal. European Journal of Clinical Nutrition 60, 265–271. https://doi.org/10.1038/sj.ejcn.1602311

Lyne Michael C, Jonas Nomonde, Ortmann Gerald F, 2018. A quantitative assessment of an outsourced agricultural extension service in the Umzimkhulu District of KwaZulu-Natal, South Africa. Journal of agricultural education and extension 24, 51–64. https://doi.org/10.1080/1389224X.2017.1387159

Ma J, Sun Q, Liu J, Hu Y, Liu S, Zhang J, Sheng X, Hambidge K M, 2016. The Effect of Iron Fortification on Iron (Fe) Status and Inflammation: A Randomized Controlled Trial. PloS one 11, 0167458–0167458. https://doi.org/10.1371/journal.pone.0167458

Macauslan Ian, Attah Ramlatu, 2015. Food Stamps For Food Security: The Impact Of A Targeted Social Assistance Programme In Mongolia. Journal of Poverty and Social Justice 23, 121–134. https://doi.org/10.1332/175982715X14356781747525

Machado A M, Paula H, Cardoso L D, Costa N M B, 2015. Effects of brown and golden flaxseed on the lipid profile, glycemia, inflammatory biomarkers, blood pressure and body composition in overweight adolescents. Nutrition 31, 90–96. https://doi.org/10.1016/j.nut.2014.05.002

Macharia-Mutie C W, 2012. Efficacy of amaranth grain (Amaranthus cruentus) on anaemia and iron deficiency in Kenyan pre-school children. Efficacy of amaranth grain (Amaranthus cruentus) on anaemia and iron deficiency in Kenyan pre-school children. Netherlands.

Macharia-Mutie C W, Moretti D, Van den Briel N, Omusundi A M, Mwangi A M, Kok F J, Zimmermann M B, Brouwer I D, 2012. Maize porridge enriched with a micronutrient powder containing low-dose iron as NaFeEDTA but not amaranth grain flour reduces anemia and iron deficiency in Kenyan preschool children. Journal of nutrition 142, 1756-1763. https://doi.org/10.3945/jn.112.157578

Machila M, Lyne M, Nuthall P, 2015. Assessment of an outsourced agricultural extension service in the Mutasa district of Zimbabwe. Journal of Agricultural Extension and Rural Development 7, 142–149. https://doi.org/10.5897/JAERD2015.0677

Macours K, Behaghel L, Gignoux J, Kamugisha R, Kugonza J, Najjingo M, Mangheni M, 2017. The Impact of Farmer-to-Farmer Training on Agricultural Productivity in Uganda [WWW Document]. URL https://www.povertyactionlab.org/evaluation/impact-farmer-farmer-training-agricultural-productivity-uganda#:~:text=Researchers%20evaluated%20the%20impact%20of,'%20knowledge%2C%20productivity%20and%20revenues.

Madatuwa Thennakoon M, Mahawithanage Sanath T, Chadrika Udumalagala G, Jansz Errol R, Wickremasinghe Ananda R, 2007. Evaluation of the effectiveness of the national vitamin A supplementation programme among school children in Sri Lanka. British journal of Nutrition 97, 153–159. https://doi.org/10.1017/S0007114507191923

Madeiro Leite Alvaro J, Fiorini Puccini Rosana, Atalah Alvaro N, Alves Da Cunha Antonio L, Tavares Machado Márcia, 2005. Effectiveness of home-based peer counselling to promote breastfeeding in the northeast of Brazil: a randomized clinical trial. Acta Paediatrica 94, 741–746. https://doi.org/10.1080/08035250410023854

Madjd A, Taylor M A, Delavari A, Malekzadeh R, Macdonald I A, Farshchi H R, 2018. Effects of replacing diet beverages with water on weight loss and weight maintenance: 18-month follow-up, randomized clinical trial. International Journal of Obesity 42, 835–840. https://doi.org/10.1038/ijo.2017.306

Maertens Anemie, Mhango Wezi, Michelson Hope, 2016. The effect of demonstration plots and a warehouse receipt system on ISFM adoption, income and yield of smallholder farmers: an evaluation of Malawi's Anchor Farm Model. 3ie.

Maertens Miet, Vande Velde Katrien, 2017. Contract-farming in Staple Food Chains: The Case of Rice in Benin. World Development 95, 73–87. https://doi.org/10.1016/j.worlddev.2017.02.011

Maffioli E, Field E, Zaw N, Esu F, Fertig A, 2019. LEGACY Program Randomized Controlled Trial Endline Report.

Magnan Nicholas, Hoffmann Vivian, Garrido Gissele Gajate, Kanyam Daniel Akwasi, Opoku Nelson, 2019. Information, technology, and market rewards: incentivizing aflatoxin control in Ghana., IFPRI - Discussion Papers. IFPRI, USA.

Magne F, Hachelaf W, Suau A, Boudraa G, Bouziane-Nedjadi K, Rigottier-Gois L, Touhami M, Desjeux J F, Pochart P, 2008. Effects on faecal microbiota of dietary and acidic oligosaccharides in children during partial formula feeding. Journal of Pediatric Gastroenterology and Nutrition 46, 580–588. https://doi.org/10.1097/MPG.0b013e318164d920

Magon Anjna, Collin Simon M, Joshi Pallavi, Davys Late Glyn, Attlee Amita, Mathur Beena, 2014. Leaf concentrate fortification of antenatal protein-calorie snacks improves pregnancy outcomes. Journal of health, population, and nutrition 32, 430-440.

Mahajan A, Gine X, Malani A, Rao M, 2017. Irrigation Tank Rehabilitation for Improved Agricultural Outcomes and Water Management in India.

Mahawithanage S T C, Kannangara K K N P, Wickremasinghe R, Chandrika U G, Jansz E R, Karunaweera N D, Wickremasinghe A R, 2007. Impact of vitamin A supplementation on health status and absenteeism of school children in Sri Lanka. Asia Pacific Journal of Clinical Nutrition 16, 94–102.

Mahdalena Vina, Muljono Pudji, Wibowo Cahyono Tri, 2018. The effects of video message design to farmer's knowledge and attitude about Good Agricultural Practices (GAP) of shallots in Banten Province Indonesia. Journal of Engineering and Applied Sciences 13, 5764–5770. https://doi.org/10.36478/jeasci.2018.5764.5770

Mahfuz M, Alam M A, Das S, Fahim S M, Hossain M S, Petri W A, Ashorn P, Ashorn U, Ahmed T, 2020. Daily supplementation with egg, cow milk, and multiple micronutrients increases linear growth of young children with short stature. Journal of Nutrition 150, 394–403. https://doi.org/10.1093/jn/nxz253

Mahfuzar Rahman, Yunus Fakir Md, Shah Rasheduzzaman, Jhohura Fatema Tuz, Mistry Sabuj Kanti, Quayyum Tasmeen, Aktar Bachera, Afsana Kaosar, 2016. A controlled before-and-after perspective on the

improving maternal, neonatal, and child survival program in rural Bangladesh: an impact analysis. PLoS ONE 11, e0161647. https://doi.org/10.1371/journal.pone.0161647

Mahmudiono T, Al-Mamun A, Nindya T S, Andrias D R, Megatsari H, Rosenkranz R R, 2018. The effectiveness of nutrition education for overweight/obese mother with stunted children (NEO-MOM) in reducing the double burden of malnutrition. Nutrients 10, 1910. https://doi.org/10.3390/nu10121910

Maia Alexandre Gori, Eusébio Gabriela dos Santos, da Silveira Rodrigo Lanna Franco, 2019. Can credit help small family farming? Evidence from Brazil. Agricultural Finance Review 80, 212–230. https://doi.org/10.1108/AFR-10-2018-0087

Maingi Mildred, Kimiywe Judith, Iron-Segev Sharon, 2018. Effectiveness of Baby Friendly Community Initiative (BFCI) on complementary feeding in Koibatek, Kenya: a randomized control study. BMC public health 18. https://doi.org/10.1186/s12889-018-5519-1

Maitra Pushkar, Mitra Sandip, Mookherjee Dilip, Motta Alberto, Visaria Sujata, 2017. Financing Smallholder Agriculture: An Experiment with Agent-Intermediated Microloans in India. Journal of Development Economics 127, 306–337. https://doi.org/10.1016/j.jdeveco.2017.03.001

Majumdar I, Paul P, Talib P H, Ranga S, 2003. The effect of iron therapy on the growth of iron-replete and iron-deplete children. Journal of Tropical Pediatrics 49, 84–88. https://doi.org/10.1093/tropej/49.2.84

Makau D N, VanLeeuwen J A, Gitau G K, McKenna S L, Walton C, Muraya J, Wichtel J J, 2019. Effects of Calliandra and Sesbania supplementation on weight gain in dairy calves on smallholder farms in Kenya. Preventive veterinary medicine 172. https://doi.org/10.1016/j.prevetmed.2019.104787

Makau D N, VanLeeuwen J A, Gitau G K, Muraya J, McKenna S L, Walton C, Wichtel J J, 2018. Effectiveness of using cellphone technology as a dairy management training tool for smallholder dairy farms in Kenya. Livestock Research for Rural Development 30, Article 195-Article 195.

Makola D, Ash D M, Tatala S R, Latham M C, Ndossi G, Mehansho H, 2003. A micronutrient-fortified beverage prevents iron deficiency, reduces anemia and improves the hemoglobin concentration of pregnant Tanzanian women. The Journal of nutrition 133, 1339–46. https://doi.org/10.1093/jn/133.5.1339

Makurat Jan, Kretz Eleonore C, Wieringa Frank T, Chamnan Chhoun, Krawinkel Michael B, 2018. Dietary Diversity in Cambodian Garment Workers: The Role of Free Lunch Provision. Nutrients 10. https://doi.org/10.3390/nu10081010

Malavika Vinodkumar, Erhardt J G, Rajagopalan S, 2009. Impact of a multiple-micronutrient fortified salt on the nutritional status and memory of schoolchildren. International Journal for Vitamin and Nutrition Research 79, 348–361. https://doi.org/10.1024/0300-9831.79.56.348

Maleta K M, Phuka J, Alho L, Cheung Y, Dewey K G, Ashorn U, Phiri N, Phiri T E, Vosti S A, Zeilani M, Kumwenda C, Bendabenda J, Pulakka A, Ashorn P, 2015. Provision of 10-40 g/d lipid-based nutrient supplements from 6 to 18 months of age does not prevent linear growth faltering in Malawi. Journal of Nutrition 145, 1909–1915. https://doi.org/10.3945/jn.114.208181

Malik V S, Sudha V, Wedick N M, Ramyabai M, Vijayalakshmi P, Lakshmipriya N, Gayathri R, Kokila A, Jones C, Hong B, Li R, Krishnaswamy K, Anjana R M, Spiegelman D, Willett W C, Hu F B, Mohan V, 2019. Substituting brown rice for white rice on diabetes risk factors in India: a randomised controlled trial. British Journal of Nutrition 121, 1389–1397. https://doi.org/10.1017/S000711451900076X

Mallard Simonette R, Houghton Lisa A, Filteau Suzanne, Mullen Anne, Nieuwelink Johanna, Chisenga Molly, Siame Joshua, Gibson Rosalind S, 2014. Dietary diversity at 6 months of age is associated with subsequent growth and mediates the effect of maternal education on infant growth in urban Zambia. The Journal of nutrition 144, 1818–1825. https://doi.org/10.3945/jn.114.199547

Malpeli Agustina, Apezteguia María, Mansur José L, Armanini Alicia, Couret Melisa Macías, Villalobos Rosa, Kuzminczuk Marta, Gonzalez Horacio F, 2012. Calcium supplementation, bone mineral density and bone mineral content. Predictors of bone mass changes in adolescent mothers during the 6-month postpartum period. Archivos Latinoamericanos de Nutricion 62, 30–36.

Maluccio J A, 2007. The Impact of Conditional Cash Transfers in Nicaragua on Consumption, Productive Investments and Labour Allocation. Journal of Development Studies 46, 14–38. https://doi.org/10.1080/00220380903197952

Maluccio J A, Hoddinott J, Behrman J R, Martorell R, Quisumbing A R, Stein A D, 2009. The Impact Of Improving Nutrition During Early Childhood On Education Among Guatemalan Adults. Economic Journal 119, 734–763.

Mamadou A, Darko Osei R, Osei-Akoto I, 2020. Impact of Reinforcing Agro Dealer Networks on Agricultural Productivity in Niger. Journal of Agriculture and Sustainability 13, 85. https://doi.org/10.28924/ip/jas.1872

Mamiro P S, Kolsteren P W, van Camp J H, Roberfroid D A, Tatala S, Opsomer A S, 2004. Processed complementary food does not improve growth or hemoglobin status of rural tanzanian infants from 6-12 months of age in Kilosa district, Tanzania. Journal of nutrition 134, 1084-1090. https://doi.org/10.1093/jn/134.5.1084

Mangani Charles, Maleta Kenneth, Phuka John, Cheung Yin Bun, Thakwalakwa Chrissie, Dewey Kathryn, Manary Mark, Puumalainen Taneli, Ashorn Per, 2015. Effect of complementary feeding with lipid-based nutrient supplements and corn-soy blend on the incidence of stunting and linear growth among 6- to 18-month-old infants and children in rural Malawi. Maternal & Child Nutrition 11, 132–143. https://doi.org/10.1111/mcn.12068

Manger M S, McKenzie J E, Winichagoon P, Gray A, Chavasit V, Pongcharoen T, Gowachirapant S, Ryan B, Wasantwisut E, Gibson R S, 2008. Micronutrient-fortified seasoning powder reduces morbidity and improves short-term cognitive function, but has no effect on anthropometric measures in primary school children in northeast Thailand: a randomized controlled trial. American journal of clinical nutrition AJN 87, 1715–1722. https://doi.org/10.1093/ajcn/87.6.1715

Manley J, Fernald L, Gertler P, 2012. Wealthy, healthy and wise: does money compensate for being born into difficult conditions? Applied Economics Letters 22, 121–126. https://doi.org/10.1080/13504851.2014.929618

Mannava Aneesh, Perova Elizaveta, Tran Phuong Thi Minh, 2020. Who Benefits from Better Roads and Why? Mixed Methods Analysis of the Gender-Disaggregated Impacts of a Rural Roads Project in Vietnam.

Manno D, Kowa P K, Bwalya H K, Siame J, Grantham-McGregor S, Baisley K, De Stavola B L, Jaffar S, Filteau S, 2012. Rich micronutrient fortification of locally produced infant food does not improve mental and motor development of Zambian infants: a randomised controlled trial. British journal of nutrition 107, 556–566. https://doi.org/10.1017/S0007114511003217

Mantaring Jacinto, Benyacoub Jalil, Destura Raul, Pecquet Sophie, Vidal Karine, Volger Sheri, Guinto Valerie, 2018. Effect of maternal supplement beverage with and without probiotics during pregnancy and lactation on maternal and infant health: a randomized controlled trial in the Philippines. BMC Pregnancy and Childbirth 18. https://doi.org/10.1186/s12884-018-1828-8

Manza E A G, Banta A L, 2014. Impact of promoting sustainable agriculture project on livelihood sources in southern Borno state, Nigeria (PROSAB): a quantitative and qualitative analysis. Nigerian Agricultural Journal 45, 1–12.

Mardones F, Urrutia M T, Villarroel L, Rioseco A, Castillo O, Rozowski J, Tapia J L, Bastias G, Bacallao J, Rojas I, Mardones Francisco, Urrutia Maria-Teresa, Villarroel Luis, Rioseco Alonso, Castillo Oscar, Rozowski Jaime, Tapia Jose-Luis, Bastias Gabriel, Bacallao Jorge, Rojas Ivan, 2008. Effects of a dairy product fortified with multiple micronutrients and omega-3 fatty acids on birth weight and gestation duration in pregnant Chilean women. Public Health Nutrition 11, 30–40. https://doi.org/10.1017/S1368980007000110

Marliyati S A, Martianto D, Andarwulan N, Fauzi S, 2016. Efficacy of non-branded cooking oil fortified with carotene from RPO on blood retinol and IgG of children aged 7-9 years. Pakistan Journal of Nutrition 15, 419–426. https://doi.org/10.3923/pjn.2016.419.426

Marquis G S, Colecraft E K, Sakyi-Dawson O, Lartey A, Ahunu B K, Birks K A, Butler L M, Reddy M B, Jensen H H, Huff-Lonergan E, 2015. An integrated microcredit, entrepreneurial training, and nutrition education intervention is associated with better growth among preschool-aged children in rural Ghana. Journal of Nutrition 145, 335–343. https://doi.org/10.3945/jn.114.194498

Marquis Grace S, Colecraft Esi K, Kanlisi Roland, Aidam Bridget A, Atuobi-Yeboah Afua, Pinto Comfort, Aryeetey Richmond, 2018. An agriculture-nutrition intervention improved children's diet and growth in a randomized trial in Ghana. Maternal & child nutrition 14, e12677. https://doi.org/10.1111/mcn.12677

Marreiro Dilina Do Nascimento, Geloneze Bruno, Tambascia Marcos A, Lerario Antonio C, Halpern Alfredo, Cozzolino Silvia Maria Franciscato, 2006. Effect of Zinc Supplementation on Serum Leptin Levels and Insulin Resistance of Obese Women. Biological trace element research 112, 109–118. https://doi.org/10.1385/bter:112:2:109

Martey E, Wiredu A N, Etwire P M, Kuwornu J K M, 2019. The impact of credit on the technical efficiency of maize-producing households in Northern Ghana. Agricultural Finance Review 79, 304–322. https://doi.org/10.1108/AFR-05-2018-0041

Martin R M, Kramer M S, Patel R, Rifas-Shiman S L, Thompson J, Yang S, Vilchuck K, Bogdanovich N, Hameza M, Tilling K, Oken E, 2017. Effects of promoting long-term, exclusive breastfeeding on adolescent adiposity, blood pressure, and growth trajectories: a secondary analysis of a randomized clinical trial. JAMA Pediatrics 171, e170698. https://doi.org/10.1001/jamapediatrics.2017.0698

Martinez Daniel Morales, Maia Alexandre Gori, 2018. The Impacts of Cash Transfers on Subjective Wellbeing and Poverty: The Case of Colombia. Journal of Family and Economic Issues 39, 616–633. https://doi.org/10.1007/s10834-018-9585-4

Martinez S, Acero C G, 2018. SPOON: sustained Program for Improving Nutrition - Mexico. Cochrane Central Register of Controlled Trials 2019.

Martinez Sebastian, Johannsen Julia, Gertner Gaston, Franco Jorge, Exposito Ana B Perez, Bartolini Rosario M, Condori Irma, Ayllon Jhovanna Flores, Llanque Ramiro, Alvarado Nohora, Lunstedt Christian, Ferrufino Cecilia, Reinaga Teresa, Chumacero Mauricio, Foronda Carlos, Albarracin Santiago, Aguilar Ana Maria, 2018. Effects of a home-based participatory play intervention on infant and young child nutrition: a randomised evaluation among low-income households in El Alto, Bolivia. BMJ Global Health 3. https://doi.org/10.1136/bmjgh-2017-000687

Martinez-Andrade G O, Cespedes E M, Rifas-Shiman S L, Romero-Quechol G, Gonzalez-Unzaga M A, Benitez-Trejo M A, Flores-Huerta S, Horan C, Haines J, Taveras E M, Perez-Cuevas R, Gillman M W, 2014. Feasibility and impact of Creciendo sanos, a clinic-based pilot intervention to prevent obesity among preschool children in Mexico City. BMC Pediatrics 14. https://doi.org/10.1186/1471-2431-14-77

Martinez-Jaikel Tatiana, Frongillo Edward A, Blake Christine E, Fram Maryah S, Esquivel-Solis Viviana, 2020. Reducing Both Food Insecurity and Excess Body Weight in Costa Rican Women: A Cluster Randomized Trial. American journal of preventive medicine 58, 736–747. https://doi.org/10.1016/j.amepre.2019.11.021

Martins Ana Paula Bortoletto, Monteiro Carlos Augusto, 2016. Impact of the Bolsa Familia program on food availability of low-income Brazilian families: a quasi experimental study. BMC public health 16, 827. https://doi.org/10.1186/s12889-016-3486-y

Mashreky Saidur Rahman, Rahman Fazlur, Rahman Aminur, Talab Abu, Rahman Zakia, 2015. Role Of Mass Media In Increasing Knowledge And Practices Of Mothers On IYCF: Findings From A Community Trial In Rural Bangladesh. South East Asia Journal Of Public Health 5, 18–24. https://doi.org/10.3329/seajph.v5i1.24847

Masoumi Seyedeh Zahra, Kazemi Farideh, Ahmadi Sheler, 2017. Investigating the effects of instructing mothers using BASNEF model on continuing exclusive breastfeeding of late- preterm infants. Journal of comprehensive pediatrics 8. https://doi.org/10.5812/compreped.59243

Masset E, Haddad L, 2015. Does Beneficiary Farmer Feedback Improve Project Performance? An Impact Study of a Participatory Monitoring Intervention in Mindanao, Philippines. Journal of Development Studies 51, 287–304. https://doi.org/10.1080/00220388.2014.959933

Masuda Kazuya, Chitundu Maureen, 2019. Multiple Micronutrient Supplementation Using Spirulina platensis during the First 1000 Days is Positively Associated with Development in Children under Five Years: A Follow up of A Randomized Trial in Zambia. Nutrients 11, 730. https://doi.org/10.3390/nu11040730

Matchaya Greenwell Collins, Perotin Virginie, 2013. The Impact of Cooperative Patronage: The Case of National Small Holder Farmers" Association (NASFAM) of Malawi in Kasungu District. Agrekon 52, 75–103. https://doi.org/10.1080/03031853.2013.798066

Mathias M G, Coelho-Landell C A, Scott-Boyer M P, Lacroix S, Morine M J, Salomao R G, Toffano R B D, Almada M O. R V, Camarneiro J M, Hillesheim E, Barros T T, Camelo J S, Gimenez E C, Redeuil K, Goyon A, Bertschy E, Leveques A, Oberson J M, Gimenez C, Carayol J, Kussmann M, Descombes P, Metairon S, Draper C F, Conus N, Mottaz S C, et al, 2018. Clinical and vitamin response to a short-term multi-micronutrient intervention in Brazilian children and teens: from population data to interindividual responses. Molecular Nutrition & Food Research 62. https://doi.org/10.1002/mnfr.201700613

Matias Susana L, Vargas-Vasquez Alejandro, Bado Perez Ricardo, Alcazar Valdivia Lorena, Aquino Vivanco Oscar, Rodriguez Martin Amelia, Novalbos Ruiz Jose Pedro, 2017. Effects of lipid-based nutrient supplements v. micronutrient powders on nutritional and developmental outcomes among Peruvian infants. Public Health Nutrition 20, 2998–3007. https://doi.org/10.1017/S1368980017001811

Matsumoto Tomoya, 2014. Disseminating New Farming Practices among Small Scale Farmers: An Experimental Intervention in Uganda. Journal of the Japanese and International Economies 33, 43–74. https://doi.org/10.1016/j.jjie.2013.10.007

Mattos Luciana B, Mattos Marina B, Barbosa Ana P. O, Bauer Mariana da Silva, Strack Maina H, Rosario Pedro, Reppold Caroline T, Magalhaes Cleidilene R, 2018. Promoting self-regulation in health among vulnerable Brazilian children: Protocol study. Frontiers in Psychology 9. https://doi.org/10.3389/fpsyg.2018.00651

Mayda Anna Maria, Steinberg Chad, 2009. Do South-South trade agreements increase trade? Commodity-level evidence from COMESA. Canadian Journal of Economics 42, 1361–1389.

Mazariegos M, Hambidge K M, Krebs N F, Westcott J E, Lei S, Grunwald G K, Campos R, Barahona B, Raboy V, Solomons N W, 2006. Zinc absorption in Guatemalan schoolchildren fed normal or low-phytate maize. American journal of clinical nutrition 83, 59-64. https://doi.org/10.1093/ajcn/83.1.59

Mazariegos M, Hambidge K M, Westcott J E, Solomons N W, Raboy V, Das A, Goco N, Kindem M, Wright L L, Krebs N F, 2010. Neither a zinc supplement nor phytate-reduced maize nor their combination enhance growth of 6- to 12-month-old Guatemalan infants. Journal of Nutrition 140, 1041–1048.

Mazumder Sarmila, Taneja Sunita, Bhatia Kiran, Yoshida Sachiyo, Kaur Jasmine, Dube Brinda, G S Toteja, Bahl Rajiv, Fontaine Olivier, Martines Jose, Bhandari Nita, Neovita India Study Group, 2014. Efficacy of early neonatal supplementation with vitamin A to reduce mortality in infancy in Haryana, India (Neovita): a randomised, double-blind, placebo-controlled trial. Lancet 385, 1333–1342. https://doi.org/10.1016/S0140-6736(14)60891-6

McDougal Topher L, Almquist Lars, 2014. The Effects of Agricultural Cooperatives on Land Conflicts, Violence, and Community Trust: Household-Level Evidence from Burundi. Economics of Peace and Security Journal 9, 5–18. https://doi.org/10.15355/epsj.9.2.5

McIntosh Craig, Zeitlin Andrew, 2018. Benchmarking a child nutrition program against cash: experimental evidence from Rwanda.

McKune Sarah, 2019. Improving Nutrition in Children Under Two Through Increased Egg Consumption in Burkina Faso. Clinical trials gov.

McLean Erin D, Allen Lindsay H, Neumann C G, Peerson J M, Siekmann J H, Murphy S P, Bwibo N O, Demment M W, 2007. Low plasma vitamin B-12 in Kenyan school children is highly prevalent and improved by supplemental animal source foods. The Journal of nutrition 137, 676–82. https://doi.org/10.1093/jn/137.3.676

Mcniven S, Gilligan D O, Hotz C, 2016. Sustainability Of Impact Dimensions Of Decline And Persistence In Adopting A Biofortified Crop In Uganda, 3ie Series Report. 3ie.

Meethien N, Pothiban L, Ostwald S K, Sucamvang K, Panuthai S, 2011. Effectiveness of nutritional education in promoting healthy eating among elders in northeastern Thailand. Pacific Rim International Journal of Nursing Research 15, 188–201.

Mehran L, Nazer i P, Delshad H, Mirmiran P, Mehrabi Y, Azizi F, 2012. Does a text messaging intervention improve knowledge, attitudes and practice regarding iodine deficiency and iodized salt consumption? Public Health Nutrition 15, 2320–2325. https://doi.org/10.1017/S1368980012000869

Mehta Saurabh, Finkelstein Julia L, Venkatramanan Sudha, Huey Samantha L, Udipi Shobha A, Ghugre Padmini, Ruth Caleb, Canfield Richard L, Kurpad Anura V, Potdar Ramesh D, Haas Jere D, 2017. Effect of iron and zinc-biofortified pearl millet consumption on growth and immune competence in children aged 12-18 months in India: study protocol for a randomised controlled trial. BMJ Open 7. https://doi.org/10.1136/bmjopen-2017-017631

Mei Zuguo G, Serdula Mary K, Liu Jian-meng, Flores-Ayala Rafael C, Wang Linlin, Ye Rongwei, Grummer-Strawn Laurence M, 2014. Iron-containing micronutrient supplementation of Chinese women with no or mild anemia during pregnancy improved iron status but did not affect perinatal anemia. Journal of Nutrition 144, 943–948. https://doi.org/10.3945/jn.113.189894

Mejia W, Cordoba D, Duran P, Chacon Y, Rosselli D, 2019. Effect of daily exposure to an isolated soy protein supplement on body composition, energy and macronutrient intake, bone formation markers, and lipid profile in children in Colombia. Journal of Dietary Supplements 16, 1–13. https://doi.org/10.1080/19390211.2017.1409851

Melesse Mequanint B, Bulte Erwin, 2015. Does land registration and certification boost farm productivity? Evidence from Ethiopia. Agricultural Economics 46, 757–768. https://doi.org/10.1111/agec.12191

Memon Zahid A, Khan Gul N, Soofi Sajjd B, Baig Imam Y, Bhutta Zulfiqar A, 2015. Impact of a community-based perinatal and newborn preventive care package on perinatal and neonatal mortality in a remote mountainous district in Northern Pakistan. BMC Pregnancy and Childbirth 15. https://doi.org/10.1186/s12884-015-0538-8

Menasria L, Blaney S, Main B, Vong L, Hun V, Raminashvili D, Chhea C, Chiasson L, Leblanc C P, 2018. Mitigated Impact of Provision of Local Foods Combined with Nutrition Education and Counseling on Young Child Nutritional Status in Cambodia. Nutrients 10, 18. https://doi.org/10.3390/nu10101450

Menezes M C, Mingoti S A, Cardoso C S, Mendonça R D, Lopes A C S, 2015. Intervention Based On Transtheoretical Model Promotes Anthropometric And Nutritional Improvements — A Randomized Controlled Trial. Eating Behaviors 17, 37–44. https://doi.org/10.1016/j.eatbeh.2014.12.007

Meng L, Xu H, Liu A, Raaij J, Bemelmans W, Hu X, Zhang Q, Du S, Fang H, Ma J, Xu G, Li Y, Guo H, Du L, Ma G, 2013. The costs and cost-effectiveness of a school-based comprehensive intervention study on childhood obesity in China. PLoS ONE 8. https://doi.org/10.1371/journal.pone.0077971

Menon P, Nguyen P H, Saha K K, Khaled A, Kennedy A, Tran L M, Sanghvi T, Hajeebhoy N, Baker J, Alayon S, Afsana K, Haque R, Frongillo E A, Ruel M T, Rawat R, 2016a. Impacts on Breastfeeding Practices of At-Scale Strategies That Combine Intensive Interpersonal Counseling, Mass Media, and Community Mobilization: Results of Cluster-Randomized Program Evaluations in Bangladesh and Viet Nam. PLoS Medicine 13. https://doi.org/10.1371/journal.pmed.1002159

Menon P, Nguyen P H, Saha K K, Khaled A, Sanghvi T, Baker J, Afsana K, 2016b. The impact of intensive counselling and a mass media campaign on complementary feeding practices and child growth in Bangladesh. Field Exchange - Emergency Nutrition Network ENN 53, 30–31.

Menon Purnima, Ruel Marie T, Loechl Cornelia U, Arimond Mary, Habicht Jean-Pierre, Pelto Gretel, Michaud Lesly, 2007. Micronutrient sprinkles reduce anemia among 9- to 24-mo-old children when delivered through an integrated health and nutrition program in rural Haiti. Journal of Nutrition 137, 1023–1030. https://doi.org/10.1093/jn/137.4.1023

Merialdi Mario, Caulfield Laura E, Zavaleta Nelly, Figueroa Alberto, Costigan Kathleen A, Dominici Francesca, Dipietro Janet A, 2004. Randomized controlled trial of prenatal zinc supplementation and fetal bone growth. American Journal of Clinical Nutrition 79. https://doi.org/10.1093/ajcn/79.5.826

Merwe Liandre F van der, Moore Sophie E, Fulford Anthony J, Halliday Katherine E, Drammeh Saikou, Young Stephen, Prentice Andrew M, 2012. Long-chain PUFA supplementation in rural African infants: a randomized controlled trial of effects on gut integrity, growth, and and cognitive development. American Journal of Clinical Nutrition 97, 45–57. https://doi.org/10.3945/ajcn.112.042267

Michaux K D, Hou K, Karakochuk C D, Whitfield K C, Ly S, Verbowski V, Stormer A, Porter K, Li K H, Houghton L A, Lynd L D, Talukder A, McLean J, Green T J, 2019. Effect of enhanced homestead food production on anaemia among Cambodian women and children: a cluster randomized controlled trial. Maternal & Child Nutrition 15, e12757. https://doi.org/10.1111/mcn.12757

Miguel Rachel G, Ivanovic Daniza M, 2011. Impact of a short-term school vegetable gardens program on food-related behavior of preschoolers and their mothers. São Paulo, Brazil. Revista Chilena de Nutricion 38, 136–146. https://doi.org/10.4067/S0717-75182011000200004

Miller G, Luo R, Zhang L, Sylvia S, Shi Y, Foo P, Zhao Q, Martorell R, Medina A, Rozelle S, 2012. Effectiveness of provider incentives for anaemia reduction in rural China: a cluster randomised trial. BMJ 345, e4809. https://doi.org/10.1136/bmj.e4809

Miller L C, Rogers B, Lohani M, Loraditch M, Joshi N, Singh P, Houser R, Mahato S, 2014. Community Development and Livestock Promotion in Rural Nepal: Effects on Child Growth and Health. Food and nutrition bulletin 35, 312–326. https://doi.org/10.1177/156482651403500304

Miller Laurie C, 2018. Community Development and Nutrition Education in Banke District, Nepal: effect on Child Health and Growth. Clinical trials gov.

Miller Laurie C, Neupane Sumanta, Joshi Neena, Lohani Mahendra, Rogers Beatrice L, Neupane Shailes, Ghosh Shibani, Webb Patrick, 2020. Multisectoral community development in Nepal has greater effects on child growth and diet than nutrition education alone. Public Health Nutrition 23, 146–161. https://doi.org/10.1017/S136898001900260X

Minossi Vanessa, Pellanda Lucia Campos, 2015. The “Happy Heart” educational program for changes in health habits in children and their families: protocol for a randomized clinical trial. BMC pediatrics 15, 19. https://doi.org/10.1186/s12887-015-0336-5

Miranda M, Olivares M, Brito A, Pizarro F, 2014. Reducing iron deficiency anemia in Bolivian school children: calcium and iron combined versus iron supplementation alone. Nutrition 30, 771–5. https://doi.org/10.1016/j.nut.2013.12.008

Mirmiran P, Ramezankhani O, Mehrabani H H, Azizi F, 2006. Effect of nutritional interventions on non-communicable disease risk factors among urban Tehranians: Tehran lipid and glucose study (TLGS). Iranian Journal of Diabetes and Lipid Disorders 6, 189–199.

Missiriya M A Sahbanathul, 2014. Effect of nutritional bolus with planned teaching programme on protein energy malnutrition. International journal of pharma and bio sciences 5, B853-B859.

Mituki-Mungiria Dorothy, Tuitoek Prisca, Varpolatai Aniko, Ngotho Douglas, Kimani-Murage Elizabeth, 2020. Effectiveness of community health workers in improving early initiation and exclusive breastfeeding rates in a low-resource setting: A cluster-randomized longitudinal study. Food Science and Nutrition 8, 2719–2727. https://doi.org/10.1002/fsn3.1559

Mohamed Wirdah, Azlan Arif, Talib Ruzita Abd, 2018. Benefits of community gardening activity in obesity intervention: findings from F.E.A.T. programme. Current Research in Nutrition and Food Science 6, 700–710. https://doi.org/10.12944/CRNFSJ.6.3.12

Mohammad M A, Molloy A, Scott J, Hussein L, 2006. Plasma cobalamin and folate and their metabolic markers methylmalonic acid and total homocysteine among Egyptian children before and after nutritional supplementation with the probiotic bacteria Lactobacillus acidophilus in yoghurt matrix. International Journal of Food Sciences and Nutrition 57, 470–480. https://doi.org/10.1080/09637480600968735

Mohammadshahi Majid, Haidari Fatemeh, Karandish Majid, Ebrahimi Sara, Haghighizadeh Mohammad-Hosein, 2014. A Randomized Clinical Trial of Nutrition Education for Improvement of Diet Quality and Inflammation in Iranian Obese Women. Journal of Nutrition & Metabolism 2014, 1–10. https://doi.org/10.1155/2014/605782

Mojibian Mahdieh, Soheilykhah Sedigheh, Zadeh Mohammad Ali Fallah, Moghadam Maryam Jannati, 2015. The effects of vitamin D supplementation on maternal and neonatal outcome: a randomized clinical trial. Iranian Journal of Reproductive Medicine 13, 697–702.

Molotsky Adrian, Coombes Andrea, Bonilla Juan, 2018. Evaluation of Plantwise Kenya: 36-Month Follow-Up Report. American Institutes for Research.

Monárrez-Espino Joel, López-Alarcón Mardia, Greiner Ted, 2011. Randomized placebo-controlled trial of guava juice as a source of ascorbic acid to reduce iron deficiency in Tarahumara indigenous schoolchildren of northern Mexico. Journal of the American College of Nutrition 30, 191-200. https://doi.org/10.1080/07315724.2011.10719960

Monga Shaveta, Sachdeva Rajbir, Kochhar Anita, 2007. Clinical and haematological profile of urban working women as influenced by nutritional counselling. Journal of Human Ecology 22, 149–152.

Monteiro C A, Szarfarc S C, Brunken G S, Gross R, Conde W L, 2001. Long-term preventive mass prescription of weekly doses of iron sulfate may be highly effective to reduce endemic child anemia. Food and Nutrition Bulletin 22, 53–61.

Monterrosa Eva C, Frongillo Edward A, de Cossio Teresa Gonzalez, Bonvecchio Anabelle, Villanueva Maria Angeles, Thrasher James F, Rivera Juan A, 2013. Scripted messages delivered by nurses and radio changed beliefs, attitudes, intentions, and behaviors regarding infant and young child feeding in Mexico. Journal of Nutrition 143, 915–922. https://doi.org/10.3945/jn.112.169235

Morales-Ruan Maria del Carmen, Shamah-Levy Teresa, Amaya-Castellanos Claudia Isabel, Salazar-Coronel Araceli Apolonia, Jimenez-Aguilar Alejandra, Amaya-Castellanos Maritza Alejandra, Humaran Ignacio Mendez-Gomez, 2014. Effects of an intervention strategy for school children aimed at reducing overweight and obesity within the State of Mexico. Salud publica de Mexico 56, s113-122. https://doi.org/10.21149/spm.v56s2.5175

Moreira C M D, Cavalcante-Silva R P G V, Fujinaga C I, Marson F, 2017. Comparison of the finger-feeding versus cup feeding methods in the transition from gastric to oral feeding in preterm infants. Jornal de Pediatria 93, 585–591. https://doi.org/10.1016/j.jped.2016.12.008

Moretti Diego, Zimmermann Michael B, Muthayya Sumithra, Thankachan Prashanth, Lee Tung-Ching, Kurpad Anura V, Hurrell Richard F, 2006. Extruded rice fortified with micronized ground ferric pyrophosphate reduces iron deficiency in Indian schoolchildren: a double-blind randomized controlled trial. The American journal of clinical nutrition 84, 822–9.

Morrow A L, Guerrero M L, 2001. From bioactive substances to research on breast-feeding promotion. Advances in experimental medicine and biology 501, 447-455. https://doi.org/10.1007/978-1-4615-1371-1_56

Mosha D, Canavan C R, Bellows A L, Blakstad M M, Noor R A, Masanja H, Kinabo J, Fawzi W, 2018. The impact of integrated nutrition-sensitive interventions on nutrition and health of children and women in rural Tanzania: study protocol for a cluster-randomized controlled trial. BMC nutrition 4, 8. https://doi.org/10.1186/s40795-018-0238-7

Moss Cami, Bekele Tesfaye Hailu, Salasibew Mihretab Melesse, Sturgess Joanna, Ayana Girmay, Kuche Desalegn, Eshetu Solomon, Abera Andinet, Allen Elizabeth, Dangour Alan D, 2018. Sustainable Undernutrition Reduction in Ethiopia (SURE) evaluation study: a protocol to evaluate impact, process and context of a large-scale integrated health and agriculture programme to improve complementary feeding in Ethiopia. BMJ open 8, e022028. https://doi.org/10.1136/bmjopen-2018-022028

Moudi Asieh, Tafazoli Mahin, Boskabadi Hasan, Ebrahimzadeh Saeed, Salehiniya Hamid, 2016. Comparing the effect of breastfeeding promotion interventions on exclusive breastfeeding: an experimental study. Biomedical research and therapy 3, 910-927. https://doi.org/10.15419/bmrat.v3i11.132

Mouodi Simin, 2016. Comparison the effectiveness of lifestyle modification interventions. Cochrane Central Register of Controlled Trials.

Mouquet Claire, Razafindratsima Yannick, 2019. Efficacy of a strategy combining the promotion of responsive feeding with the daily consumption of a fortified cereal-based blend to reduce anemia, micronutrient deficiencies and stunting in infants from Amparafaravola District, Madagascar. http://www.who.int/trialsearch/Trial2.aspx?TrialID=PACTR201906819960554.

Moursi M, Mbemba M, Trèche S, 2003. Does the consumption of amylase-containing gruels impact on the energy intake and growth of Congolese infants? Public Health Nutrition 6, 249–257. https://doi.org/10.1079/PHN2002428

Moussa B, Otoo M, Fulton J, Lowenberg-DeBoer J, 2011. Effectiveness of alternative extension methods through radio broadcasting in West Africa. Journal of Agricultural Education and Extension 17, 355–369. https://doi.org/10.1080/1389224X.2011.576826

Mozafari L, Amani R, Hamzeh B, Haghighizadeh M H, Bigvand M, 2018. The impacts of Beliefs, Attitude, Subjective Norms, Enabling Factors-based educational program on cardiovascular risk factors through enhanced nutritional behaviors in water and wastewater organization employees. Journal of Family Medicine and Primary Care 7, 27–33. https://doi.org/10.4103/jfmpc.jfmpc_122_17

Mozaffari-Khosravi H, Shakiba M, Eftekhari M H, Vahidi A R, 2008. Effects of zinc supplementation on the physical growth of 2-5 years old children. Iranian Journal of Endocrinology and Metabolism 128, 118–127. https://doi.org/10.1007/s12011-008-8261-1

Mpiira R, Olobo Okello P, Ali Z, 2019. A multisectoral approach to eradication of malnutrition in vulnerable groups: a cluster-randomised trial. The Lancet Global Health 7, 01–07. https://doi.org/10.1016/S2214-109X(19)30093-2

Mridha Malay K, Matias Susana L, Chaparro Camila M, Paul Rina R, Hussain Sohrab, Vosti Stephen A, Harding Kassandra L, Cummins Joseph R, Day Louise T, Saha Stacy L, Peerson Janet M, Dewey Kathryn G, 2016. Lipid-based nutrient supplements for pregnant women reduce newborn stunting in a cluster-randomized controlled effectiveness trial in Bangladesh. American Journal of Clinical Nutrition 103, 236–249. https://doi.org/10.3945/ajcn.115.111336

Mshanga N, Martin H, Petrucka P, 2019. Food-basket intervention to reduce micronutrient deficiencies among Maasai-pregnant women in Tanzania: a quasi-experimental study. Journal of human nutrition and dietetics 32, 625–634. https://doi.org/10.1111/jhn.12672

Muhoozi Grace K. M, Atukunda Prudence, Diep Lien M, Mwadime Robert, Kaaya Archileo N, Skaare Anne B, Willumsen Tiril, Westerberg Ane C, Iversen Per O, 2018. Nutrition, hygiene, and stimulation education to improve growth, cognitive, language, and motor development among infants in Uganda: a cluster-randomized trial. Maternal and Child Nutrition 14, e12527. https://doi.org/10.1111/mcn.12527

Mukhopadhyay D K, Sarkar A P, Chowdhury A, Gazi E, Sarkar G N, 2017. Can frontline workers be change agents for infant feeding and growth? - a community trial. Al Ameen Journal of Medical Sciences 10, 71–77.

Mukuria A G, Martin S L, Egondi T, Bingham A, Thuita F M, 2016. Role of social support in improving infant feeding practices in western Kenya: a quasi-experimental study. Global Health: Science and Practice 4, 55–72. https://doi.org/10.9745/GHSP-D-15-00197

Mullally C C, 2018. The Impact of Climate-Resilient Livestock Transfers: Evidence from a Randomized Evaluation. Presented at the Agricultural and Applied Economics Association (AAEA) > 2018 Annual Meeting, August 5-7, 2018, Washington, D.C., Agricultural and Applied Economics Association. https://doi.org/10.22004/ag.econ.274252

Mullally Conner, 2011. Development in the Midst of Drought: Evaluating an Agricultural Extension and Credit Program in Nicaragua.

Müller Ivan, Smith Danielle, Adams Larissa, Aerts Ann, Damons Bruce P, Degen Jan, Gall Stefanie, Gani Zaahira, Gerber Markus, Gresse Annelie, van Greunen Darelle, Joubert Nandi, Marais Tracey, Nqweniso Siphesihle, Probst-Hensch Nicole, du Randt Rosa, Seelig Harald, Steinmann Peter, Utzinger Jürg, Wadhwani Christina, Walter Cheryl, Pühse Uwe, 2018. Effects of a School-Based Health Intervention Program in Marginalized Communities of Port Elizabeth, South Africa (the KaziBantu Study): Protocol for a Randomized Controlled Trial. JMIR research protocols 8. https://doi.org/10.2196/14097

Muller O, Garenne M, Reitmaier P, van Zweeden A B, Kouyate B, Becher H, 2003. Effect of zinc supplementation on growth in West African children: a randomized double-blind placebo-controlled trial in rural Burkina Faso. International Journal of Epidemiology 32, 1098–1102. https://doi.org/10.1093/ije/dyg190

Mulualem D, Henry C J, Berhanu G, Whiting S J, 2016. The effectiveness of nutrition education: applying the Health Belief Model in child-feeding practices to use pulses for complementary feeding in Southern Ethiopia. Ecology of Food and Nutrition 55, 308–323. https://doi.org/10.1080/03670244.2016.1161617

Muñoz E C, Rosado J L, López P, Furr H C, Allen L H, 2000. Iron and zinc supplementation improves indicators of vitamin A status of Mexican preschoolers. American Journal of Clinical Nutrition 71, 789–94. https://doi.org/10.1093/ajcn/71.3.789

Murayama N, Magami M, Akter S, Hossain I A, Ali L, Faruquee M H, Ahmad S A, 2018. A pilot school meal program using local foods with soybean in rural Bangladesh: effects on the nutritional status of children. Food and Nutrition Sciences 9, 290–313. https://doi.org/10.4236/fns.2018.94023

Muriithi Beatrice W, Tanga Chrysantus M, Diiro Gracious M, Affognon Hippolyte D, Nderitu Peterson W, Mohamed Samira A, Kingori Sarah W, Ekesi Sunday, 2016. Impact assessment of Integrated Pest Management (IPM) strategy for suppression of mango-infesting fruit flies in Kenya. Crop protection 81, 20–29. https://doi.org/10.1016/j.cropro.2015.11.014

Murray-Kolb L E, Wenger M J, Scott S P, Rhoten S E, Lung'aho M G, Haas J D, 2017. Consumption of Iron-Biofortified Beans Positively Affects Cognitive Performance in 18- to 27-Year-Old Rwandan Female College Students in an 18-Week Randomized Controlled Efficacy Trial. Journal of Nutrition 147, 2109–2117. https://doi.org/10.3945/jn.117.255356

Murray-Kolb Laura E, Khatry Subarna K, Katz Joanne, Schaefer Barbara A, Cole Pamela M, LeClerq Steven C, Morgan Mary E, Tielsch James M, Christian Parul, 2012. Preschool micronutrient supplementation effects on intellectual and motor function in school-aged Nepalese children. Archives of Pediatrics & Adolescent Medicine 166, 404–410. https://doi.org/10.1001/archpediatrics.2012.37

Mushaphi L F, Dannhauser A, Walsh C M, Mbhenyane X G, van Rooyen F C, 2017. The impact of a nutrition education programme on feeding practices of caregivers with children aged 3 to 5 years in rural Limpopo province, South Africa. South African Journal of Clinical Nutrition 30, 101–108. https://doi.org/10.1080/16070658.2017.1322823

Muslimatun Siti, Schmidt Marjanka K, Schultink Werner, West Clive E, Hautvast Joseph A, Cross Rainer, Muhilal, 2001. Weekly supplementation with iron and vitamin A during pregnancy increases hemoglobin concentration but decreases serum ferritin concentration in Indonesian pregnant women. Journal of Nutrition 131, 85–90. https://doi.org/10.1093/jn/131.1.85

Muthayya S, Thankachan P, Hirve S, Amalrajan V, Thomas T, Lubree H, Agarwal D, Srinivasan K, Hurrell R F, Yajnik C S, Kurpad A V, 2012. Iron fortification of whole wheat flour reduces iron deficiency and iron deficiency anemia and increases body iron stores in Indian school-aged children. The Journal of nutrition 142, 1997–2003. https://doi.org/10.3945/jn.111.155135

Muthayya Sumithra, Eilander Ans, Transler Catherine, Thomas Tinku, Van Der Knaap Henk C M, Srinivasan Krishnamachari, Van Klinken B Jan Willem, Osendarp Saskia JM, Kurpad Anura V, 2009. Effect of fortification with multiple micronutrients and n-3 fatty acids on growth and cognitive performance in Indian schoolchildren: The CHAMPION (Children's Health and Mental Performance Influenced by Optimal Nutrition) study. American Journal of Clinical Nutrition 89, 1766–1775. https://doi.org/10.3945/ajcn.2008.26993

Muttaquina Hossain, Ziaul Islam, Sultana S, Rahman A S, Hotz C, Haque M A, Dhillon C N, Khondker R, Neufeld L M, Tahmeed Ahmed, 2019. Effectiveness of workplace nutrition programs on anemia status among female readymade garment workers in Bangladesh: a program evaluation. Nutrients 11, 1259. https://doi.org/10.3390/nu11061259

Mutuc M, Rejesus R M, Yorobe J M, 2013. Which farmers benefit the most from Bt corn adoption? Estimating heterogeneity effects in the Philippines. Agricultural Economics (United Kingdom) 44, 231–239. https://doi.org/10.1111/agec.12006

Mwambi Mercy Maiwa, Oduol Judith, Mshenga Patience, Saidi Mwanarusi, 2016. Does Contract Farming Improve Smallholder Income? The Case of Avocado Farmers in Kenya. Journal of Agribusiness in Developing and Emerging Economies 6, 2–20. https://doi.org/10.1108/JADEE-05-2013-0019

Mwanri L, Worsley A, Ryan P, Masika J, 2000. Supplemental Vitamin A Improves Anemia and Growth in Anemic School Children in Tanzania. Community and International Nutrition. https://doi.org/10.1093/jn/130.11.2691

Nabulsi Mona, Tamim Hani, Shamsedine Lama, Charafeddine Lama, Yehya Nadine, Kabakian-Khasholian Tamar, Masri Saadieh, Nasser Fatima, Ayash Soumaya, Ghanem Diane, 2019. A multi-component intervention to support breastfeeding in Lebanon: A randomized clinical trial. PloS one 14, e0218467. https://doi.org/10.1371/journal.pone.0218467

Nagashree R S, Manjunath N K, Indu M, Ramesh M, Venugopal V, Sreedhar P, Pavithra N, Nagendra H R, 2017. Effect of a Diet Enriched with Fresh Coconut Saturated Fats on Plasma Lipids and Erythrocyte Fatty Acid Composition in Normal Adults. Journal of the American College of Nutrition 36, 330–334. https://doi.org/10.1080/07315724.2017.1280713

Naghashpour M, Shakerinejad G, Lourizadeh M R, Hajinajaf S, Jarvandi F, 2014. Nutrition education based on Health Belief Model improves dietary calcium intake among female students of junior high schools. Journal of Health, Population and Nutrition 32, 420–429.

Nagwekar Nupur Nandan, Tidke Vaibhav Baburao, Thorat Bhaskar Narayan, 2020. Seasonal Nutritional Food Security to Indian Women through Community-level Implementation of Domestic Solar Conduction Dryer. Ecology of Food and Nutrition 59, 525–551. https://doi.org/10.1080/03670244.2020.1752686

Nahas M V, de Barros M V G, de Assis M A A, Hallal P C, Florindo A A, Konrad L, 2009. Methods and participant characteristics of a randomized intervention to promote physical activity and healthy eating among Brazilian high school students: The Saude na Boa project. Journal of Physical Activity & Health 6, 153–162. https://doi.org/10.1123/jpah.6.2.153

Nahas-Neto J, Cangussu L M, Orsatti C L, Bueloni-Dias F N, Poloni P F, Schmitt E B, Nahas E A. P, 2018. Effect of isolated vitamin D supplementation on bone turnover markers in younger postmenopausal women: a randomized, double-blind, placebo-controlled trial. Osteoporosis International 29, 1125–1133. https://doi.org/10.1007/s00198-018-4395-y

Nair Nirmala, Tripathy Prasanta, Sachdev H S, Pradhan Hemanta, Bhattacharyya Sanghita, Gope Rajkumar, Gagrai Sumitra, Rath Shibanand, Rath Suchitra, Sinha Rajesh, Roy Swati Sarbani, Suhas Shewale, Singh Vijay, Srivastava Aradhana, Costello Anthony, Copas Andrew, Skordis-Worrall Jolene, Haghparast-Bidgoli Hassan, Saville Naomi, Prost Audrey, 2017. Effect of participatory women's groups and counselling through home visits on children's linear growth in rural eastern India (CARING trial): a cluster-randomised controlled trial. Lancet Global Health 5, e1004–e1016. https://doi.org/10.1016/S2214-109X(17)30339-X

Najimi Arash, Ghaffari Mohtasham, 2013. Promoting fruit and vegetable consumption among students: a randomized controlled trial based on social cognitive theory. JPMA. The journal of the pakistan medical association 63, 1235-1240.

Nakamura S, Bundervoet T, Nuru M, 2020. Rural Roads, Poverty, and Resilience: Evidence from Ethiopia. Journal of Development Studies 56, 1838–1855. https://doi.org/10.1080/00220388.2020.1736282

Nakanishi Yukiko, Toride Yasuhiko, Kimura Mika, Moriyasu Ai, Sowath Sol, Chan Theary, 2019. Introduction of fortified rice into the canteen for Cambodian female workers. Annals of nutrition & metabolism 75. https://doi.org/10.1159/000501751

Nakano Yuko, Magezi Eustadius F, 2020. The impact of microcredit on agricultural technology adoption and productivity: Evidence from randomized control trial in Tanzania. World Development 133. https://doi.org/10.1016/j.worlddev.2020.104997

Nakano Yuko, Tanaka Yuki, Otsuka Keijiro, 2018a. Impact of Training on the Intensification of Rice Farming: Evidence from Rainfed Areas in Tanzania. Agricultural Economics 00, 1–10. https://doi.org/10.1111/agec.12408

Nakano Yuko, Tsusaka Takuji W, Aida Takeshi, Pede Valerien O, 2018b. Is Farmer-to-Farmer Extension Effective? The Impact of Training on Technology Adoption and Rice Farming Productivity in Tanzania. World Development 105, 336–351. https://doi.org/10.1016/j.worlddev.2017.12.013

Nakasone E, 2013. The role of price information in agricultural markets: experimental evidence from rural Peru. https://doi.org/10.22004/ag.econ.150418

Nakasone Eduardo, Torero Maximo, 2016. Agricultural Extension through Information Technologies in Schools: Do the Cobbler's Parents go Barefoot? https://doi.org/10.22004/ag.econ.236114

Namakin K, Tavakoli F, Zardast M, 2015. Effect of vitamin D supplementation on lipid profile in children aged 10-14 years old. International Journal of Pediatrics 3, 987–994. https://doi.org/10.22038/IJP.2015.5141

Nandi A, Behrman J R, Kinra S, Laxminarayan R, 2018. Early-life nutrition is associated positively with schooling and labor market outcomes and negatively with marriage rates at age 20-25 years: evidence from the Andhra Pradesh Children and Parents Study (APCAPS) in India. Journal of Nutrition 148, 140–146. https://doi.org/10.1093/jn/nxx012

Nankabirwa Victoria, Tylleskar Thorkild, Nankunda Jolly, Engebretsen Ingunn Marie S, Sommerfelt Halvor, Tumwine James K, PROMISE EBF Research Consortium, 2011. Malaria parasitaemia among infants and its association with breastfeeding peer counselling and vitamin A supplementation: a secondary analysis of a cluster randomized trial. PloS one 6. https://doi.org/10.1371/journal.pone.0021862

Narayanan Sudha, Naraparaju Karthikeya, Gerber Nicolas, 2020. Synergies in Social Protection: Impacts of India's MGNREGA and Public Distribution System on the Health and Nutrition of Women and Children. Indira Gandhi Institute of Development Research.

Nawi Azmawati Mohammed, Jamaludin Farrah Ilyani Che, 2015. Effect of internet-based intervention on obesity among adolescents in Kuala Lumpur: a school-based cluster randomised trial. MJMS - The Malaysian Journal of Medical Sciences 22, 47–56.

nayati D A, Scherbaum V, Purwestri R C, Wirawan N N, Suryantan J, Hartono S, Bloem M A, Pangaribuan R V, Biesalski H K, Hoffmann V, Bellows C, 2012. Improved nutrition knowledge and practice through intensive nutrition education: a study among caregivers of mildly wasted children on Nias Island, Indonesia. Food and Nutrition Bulletin 33. https://doi.org/10.1177/156482651203300205

Nazeri N, Ghavamzadeh S, 2017. Determining the effect of maternal omega-3 supplementation during lactation on growth and development of infants. The Journal of Urmia University of Medical Sciences 27, 22–31. https://doi.org/10.18869/acadpub.umj.27.12.1048

Nchinda Valentine P, Hadley David, Villano Renato A, Morales Emilio L, 2020. Assessing the Impact of Adoption of Improved Seed Yam Technology in Cameroon. Journal of Developing Areas 54, 15–29.

Ncube Thokozile N, Greiner Ted, Malaba Lucie C, Gebre-Medhin Mehari, 2001. Supplementing lactating women with pureed papaya and grated carrots improved vitamin A status in a placebo-controlled trial. Journal of Nutrition 131, 1497–1502. https://doi.org/10.1093/jn/131.5.1497

Ndoro J T, Mudhara M, Chimonyo M, 2014. Livestock extension programmes participation and impact on smallholder cattle productivity in KwaZulu-Natal: a propensity score matching approach. South African Journal of Agricultural Extension 42, 62–80.

Negash C, Belachew T, Henry C J, Kebebu A, Abegaz K, Whiting S J, 2014. Nutrition education and introduction of broad bean-based complementary food improves knowledge and dietary practices of caregivers and nutritional status of their young children in Hula, Ethiopia. Food and nutrition bulletin 35, 480–6. https://doi.org/10.1177/156482651403500409

Neha Kajale, Anuradha Khadilkar, Shashi Chiponkar, Jyothi Unni, Nina Mansukhani, 2014. Effect of traditional food supplements on nutritional status of lactating mothers and growth of their infants. Nutrition 30, 1360–1365. https://doi.org/10.1016/j.nut.2014.04.005

Nekavand M, Hoorsan R, Kerami A, Zohoor A, 2014. Effect of exclusive breast feeding education on breast-feeding self-efficacy and maternal stress. Research journal of obstetrics and gynecology 7, 1-5. https://doi.org/10.3923/rjog.2014.1.5

Nepal A, 2016. Labor Productivity, Remittance Use, and the Impact of the Poverty Alleviation Fund (PAF) Program in Nepal. Labor Productivity, Remittance Use, and the Impact of the Poverty Alleviation Fund (PAF) Program in Nepal. University of Illinois.

Nesamvuni A E, Vorster H H, Margetts B M, Kruger A, Nesamvuni Alufheli E, Vorster Hester H, Margetts Barrie M, Kruger Annamarie, 2005. Fortification of maize meal improved the nutritional status of 1-3-year-old African children. Public Health Nutrition 8, 461–467. https://doi.org/10.1079/PHN2005782

Nestel P, Nalubola R, Sivakaneshan R, Wickramasinghe A R, Atukorala S, Wickramanayake T, 2004. The use of iron-fortified wheat flour to reduce anemia among the estate population in Sri Lanka. International journal for vitamin and nutrition research. Internationale zeitschrift fur vitamin- und ernahrungsforschung. Journal international de vitaminologie ET de nutrition 74, 35-51. https://doi.org/10.1024/0300-9831.74.1.35

Neufeld Lynnette M, García-Guerra Armando, Quezada Amado D, Théodore Florence, Arenas Anabelle Bonvecchio, Islas Clara Domínguez, Garcia-Feregrino Raquel, Hernandez Amira, Colchero Arantxa, Habicht Jean Pierre, 2019. A Fortified Food Can Be Replaced by Micronutrient Supplements for Distribution in a Mexican Social Protection Program Based on Results of a Cluster-Randomized Trial and Costing Analysis. Journal of Nutrition 149, 2302S-2309S. https://doi.org/10.1093/jn/nxz176

Neumann C G, Bwibo N O, Gewa C A, Drorbaugh N, 2011. Animal-source foods as a food-based approach to address nutrient deficiencies and functional outcomes: a study among Kenyan schoolchildren., in: Thompson B, Amoroso L (Eds.), Combating Micronutrient Deficiencies: Food-Based Approaches. pp. 117–136. https://doi.org/10.1079/9781845937140.0117

Neumann Charlotte G, Bwibo Nimrod O, Jiang Luohua, Weiss Robert E, 2013. School snacks decrease morbidity in Kenyan schoolchildren: a cluster randomized, controlled feeding intervention trial. Public Health Nutrition 16, 1593–1604. https://doi.org/10.1017/S1368980013000876

Neumann Charlotte G, Murphy Suzanne P, Gewa Connie, Grillenberger Monika, Bwibo Nimrod O, 2007. Meat supplementation improves growth, cognitive, and behavioral outcomes in Kenyan children. Journal of Nutrition 137, 1119–1123. https://doi.org/10.1093/jn/137.4.1119

Newton Sam, Owusu-Agyei Seth, Asante Kwaku Poku, Amoaful Esi, Mahama Emmanuel, Tchum Samuel Kofi, Ali Martha, Adjei Kwame, Davis Christopher R, Tanumihardjo Sherry A, 2016. Vitamin A status and body pool size of infants before and after consuming fortified home-based complementary foods. Archives of Public Health 74. https://doi.org/10.1186/s13690-016-0121-4

Neyestani T R, Hajifaraji M, Omidvar N, Nikooyeh B, Eshraghian M R, Shariatzadeh N, Kalayi A, Khalaji N, Zahedirad M, Abtahi M, Asadzadeh S, 2014. Calcium-vitamin D-fortified milk is as effective on circulating bone biomarkers as fortified juice and supplement but has less acceptance: a randomised controlled school-based trial. Journal of Human Nutrition and Dietetics 27, 606–616. https://doi.org/10.1111/jhn.12191

Nga T T, Nguyen M, Mathisen R, Hoa do T B, Minh N H, Berger J, Wieringa F T, 2013. Acceptability and impact on anthropometry of a locally developed Ready-to-use therapeutic food in pre-school children in Vietnam [electronic resource]. Nutrition journal 12, 701–701. https://doi.org/10.1186/1475-2891-12-120

Nga T T, Winichagoon P, Dijkhuizen M A, Khan N C, Wasantwisut E, Wieringa F T, 2011. Decreased Parasite Load And Improved Cognitive Outcomes Caused By Deworming And Consumption Of Multi-Micronutrient Fortified Biscuits In Rural Vietnamese School Children. American Journal of Tropical Medicine and Hygiene 85, 333–340. https://doi.org/10.4269/ajtmh.2011.10-0651

Nga Tran Thuy, Winichagoon Pattanee, Dijkhuizen Marjoleine A, Khan Nguyen Cong, Wasantwisut Emorn, Furr Harold, Wieringa Frank T, 2009. Multi-Micronutrient-Fortified Biscuits Decreased Prevalence of Anemia and Improved Micronutrient Status and Effectiveness of Deworming in Rural Vietnamese School Children. Journal of nutrition 139, 1013–1021. https://doi.org/10.3945/jn.108.099754

Ngarava S, Mushunje A, Chaminuka P, 2018. Impact Of Livestock Development Programmes On Production & Risk: Case Of The Kaonafatso Ya Dikgomo (KyD) Programme. Presented at the Agricultural Economics Association of South Africa (AEASA) 2018 Annual Conference, Agricultural Economics Association of South Africa (AEASA). https://doi.org/10.22004/ag.econ.284761

Ngowi H A, Carabin H, Kassuku A A, Mlozi M R S, Mlangwa J E D, Willingham A L 3rd, 2008. A health-education intervention trial to reduce porcine cysticercosis in Mbulu District, Tanzania. Preventive veterinary medicine 85, 52–67. https://doi.org/10.1016/j.prevetmed.2007.12.014

Nguezet Dontsop Martin Paul, Diagne Aliou, Okoruwa Victor Olusegun, 2010. Estimation of Actual and Potential Adoption Rates and Determinants of Improved Rice Variety Among Rice Farmers in Nigeria: The Case of NERICAs. Journal of Crop Improvement 27, 561–585. https://doi.org/10.1080/15427528.2013.811709

Nguezet P M D, Okoruwa V O, Adeoti A I, Adenegan K O, 2012. Productivity Impact Differential of Improved Rice Technology Adoption Among Rice Farming Households in Nigeria. Journal of Crop Improvement 26, 1–21. https://doi.org/10.1080/15427528.2011.608246

Nguyen Cong Khan, West C E, de Pee S, Bosch D, Ha Do Phuong, Hulshof P J. M, Ha Huy Khoi, Verhoef H, Hautvast J G. A. J, 2007. The contribution of plant foods to the vitamin A supply of lactating women in Vietnam: a randomized controlled trial. American Journal of Clinical Nutrition 85, 1112–1120. https://doi.org/10.1093/ajcn/85.4.1112

Nguyen P H, Gonzalez-Casanova I, Young M F, Truong T V, Hoang H, Nguyen H, Nguyen S, DiGirolamo A M, Martorell R, Ramakrishnan U, 2017a. Preconception micronutrient supplementation with iron and folic acid compared with folic acid alone affects linear growth and fine motor development at 2 years of age: a randomized controlled trial in Vietnam. Journal of Nutrition 147, 1593–1601. https://doi.org/10.3945/jn.117.250597

Nguyen P H, Kim S S, Sanghvi T, Mahmud Z, Tran L M, Shabnam S, Aktar B, Haque R, Afsana K, Frongillo E A, Ruel M T, Menon P, 2017b. Integrating nutrition interventions into an existing Maternal, Neonatal, and Child Health program increased maternal dietary diversity, micronutrient intake, and exclusive breastfeeding practices in Bangladesh: results of a cluster-randomized program evaluation. Journal of Nutrition 147, 2326–2337. https://doi.org/10.3945/jn.117.257303

Nguyen Phuong, Grajeda Ruben, Melgar Paul, Marcinkevage Jessica, Flores Rafael, Martorell Reynaldo, 2008. Weekly may be as efficacious as daily folic acid supplementation in improving folate status and lowering serum homocysteine concentrations in Guatemalan women. Journal of Nutrition 138, 1491–1498. https://doi.org/10.1093/jn/138.8.1491

Nguyen Phuong H, DiGirolamo Ann M, Gonzalez-Casanova Ines, Young Melissa, Kim Nicole, Nguyen Son, Martorell Reynaldo, Ramakrishnan Usha, 2018. Influences of early child nutritional status and home learning environment on child development in Vietnam. Maternal and Child Nutrition 14. https://doi.org/10.1111/mcn.12468

Nguyen Phuong H, Menon Purnima, Keithly Sarah C, Kim Sunny S, Hajeebhoy Nemat, Tran Lan M, Ruel Marie T, Rawat Rahul, 2014. Program Impact Pathway Analysis Of A Social Franchise Model Shows Potential To Improve Infant And Young Child Feeding Practices In Vietnam. Journal of Nutrition 144, 1627–1636. https://doi.org/10.3945/jn.114.194464

Niger - Impacts of Sustainable Land Management Programs on Land Management and Poverty in Niger, 2009. . World Bank. Environmental and Natural Resources Management. Report No. 48230-NE.

Nikiema Laetitia, Huybregts Lieven, Martin-Prevel Yves, Donnen Philippe, Lanou Hermann, Grosemans Joep, Offoh Priscilla, Dramaix-Wilmet Michèle, Sondo Blaise, Roberfroid Dominique, Kolsteren Patrick, 2017. Effectiveness of facility-based personalized maternal nutrition counseling in improving child growth and morbidity up to 18 months: a cluster-randomized controlled trial in rural Burkina Faso. PLoS ONE 12. https://doi.org/10.1371/journal.pone.0177839

Nikooyeh Bahareh, Neyestani Tirang R, Zahedirad Maliheh, Mohammadi Mehrdad, Hosseini S Hedayat, Abdollahi Zahra, Salehi Foroozan, Razaz Jalaledin Mirzay, Shariatzadeh Nastaran, Kalayi Ali, Lotfollahi Neda, Maleki Mohammad-Reza, 2016. Vitamin D-Fortified Bread Is as Effective as Supplement in Improving Vitamin D Status: A Randomized Clinical Trial. Journal of Clinical Endocrinology & Metabolism 101, 2511–2519. https://doi.org/10.1210/jc.2016-1631

Nilsson P, Backman M, Bjerke L, Maniriho A, 2019. One cow per poor family: Effects on the growth of consumption and crop production. World Development 114, 1–12. https://doi.org/10.1016/j.worlddev.2018.09.024

Nimpagaritse M, Korachais C, Roberfroid D, Kolsteren P, El-Idrissi M D. Z. E, Meessen B, 2016. Measuring and understanding the effects of a performance based financing scheme applied to nutrition services in Burundi - a mixed method impact evaluation design. International Journal for Equity in Health 15. https://doi.org/10.1186/s12939-016-0382-0

Ninh Ho Ngoc, Aragon Corazon T, Palis Florencia G, Rejesus Roderick M, Singleton Grant R, 2016. Yield and income effects of ecologically-based rodent management in Mekong River Delta, Vietnam. Asian Journal of Agriculture and Development 13, 55–74. https://doi.org/10.22004/ag.econ.258965

Ninno Carlo Del, Dorosh Paul, 2003. Impacts of in-kind transfers on household food consumption: evidence from targeted food programmes in Bangladesh. Journal of Development Studies 40, 48–78. https://doi.org/10.1080/00220380412331293667

Niramitmahapanya S, Kaoiean S, Sangtawesin V, Patanaprapan A, Bordeerat N K, Deerochanawong C, 2017. Correlation of 25-hydroxyvitamin D levels in serum vs. breastmilk in vitamin D-supplementation breastfeeding women during lactation: randomized double blinded control trial. Journal of the Medical Association of Thailand 100, 165–171.

Nkonya E, Bawa D, Kato E, Maurice D, Murtala N, Nuhu H, Kwaghe P, Bila Y, Sani R, 2019. Humanitarian assistance and resilience-building: Impact of Fadama III-AF II on food security and livelihood restoration in Northeastern Nigeria. IFPRI Project Note. https://doi.org/10.2499/p15738coll2.133172

Nogueira Arcanjo, F P, Costa Arcanjo, C, Nogueira Arcanjo, F C, de Albuquerque Campos, L, Silverio Amancio, O M, Pellegrini Braga, J A, 2012. Milk-based Cornstarch Porridge Fortified with Iron is Effective in Reducing Anemia: A Randomized, Double-blind, Placebo-controlled Trial. Journal of Tropical Pediatrics 58, 370–374. https://doi.org/10.1093/tropej/fms003

Noorbakhsh A, Mostafavi F, Shahnazi H, 2017. Effects of the educational intervention on some Health Belief Model constructs regarding the prevention of obesity in students. International Journal of Pediatrics 5, 5561–5570. https://doi.org/10.22038/ijp.2017.24632.2077

NORC National Opinion Research Center, 2012. Impact Evaluation Of The Farmer Training And Development Activity In Honduras, Final Report: Millennium Challenge Corporation Contract MCC-10-0133-CON-20 TO01. NORC, Completed.

Norsham J, Suzana S, Mohd A S, Ahmad R G, Zahara A M, Rahim M N, 2017. “Her shape” intervention programme for obese women with high breast adiposity. Asia Pacific Journal of Clinical Nutrition 26, 278–286. https://doi.org/10.6133/apjcn.122015.05

Nossier S A, Naeim N E, El-Sayed N A, Zeid A A A, 2015. The effect of zinc supplementation on pregnancy outcomes: a double-blind, randomised controlled trial, Egypt. British Journal of Nutrition 114, 274–285. https://doi.org/10.1017/S000711451500166X

Nourian Mojgan, Kelishadi Roya, Najimi Arash, 2017. Lifestyle interventions and weight control of adolescents with abdominal obesity: a randomized controlled trial based on health belief model. Iranian Red Crescent Medical Journal 19. https://doi.org/10.5812/ircmj.30638

Ntakyo P R, van de Berg M, 2019. Effect of market production on rural household food consumption: evidence from Uganda. Food Security 11, 1051–1070. https://doi.org/10.1007/s12571-019-00959-2

Nunes L M, Giugliani E R. J, Santo L C. do E, de Oliveira L D, 2011. Reduction of unnecessary intake of water and herbal teas on breast-fed infants: a randomized clinical trial with adolescent mothers and grandmothers. Journal of Adolescent Health 49, 258–264. https://doi.org/10.1016/j.jadohealth.2010.12.009

Nurhasan Mulia, Roos Nanna, Skau Jutta Kh, Wieringa Frank T, Friis Henrik, Michaelsen Kim F, Dijkhuizen Marjoleine A, Stark Ken D, Ritz Christian, Chhoun Chamnan, Lauritzen Lotte, 2018. Effect of complementary food with small amounts of freshwater fish on whole blood n-3 fatty acids in Cambodian infants age 6-15 months. Prostaglandins, leukotrienes, and essential fatty acids 135, 92–101. https://doi.org/10.1016/j.plefa.2018.07.002

Nyamasege C K, Kimani-Murage E W, Wanjohi M, Kaindi D W. M, Ma E, Fukushige M, Wagatsuma Y, 2019. Determinants of low birth weight in the context of maternal nutrition education in urban informal settlements, Kenya. Journal of Developmental Origins of Health and Disease 10, 237–245. https://doi.org/10.1017/S2040174418000715

Nyangau Paul, Muriithi Beatrice, Irungu Patrick, Nzuma Jonathan, Diiro Glacious, 2017. Assessing the impact of integrated pest management (IPM) technology for mango fruit fly control on food security among smallholders in Machakos County, Kenya. https://doi.org/10.22004/ag.econ.258650

Nyangena W, Juma M, 2014. Impact of improved farm technologies on yields: the case of improved maize varieties and inorganic fertilizer in Kenya. Environment for Development Discussion Paper - Resources for the Future (RFF) Environment for Development : Discussion Paper Series.
Nyathela Tshinakaho, 2017. Impact Evaluation: A report on the Impact of the Pre-school Feeding Programme in Gauteng Province, South Africa 197–226.
Nyyssölä Milla, Pirttilä Jukka, Sandström Susanna, 2012. Helping Poor Farmers To Help Themselves. WIDER Working Paper Series 2012.
Obatolu Veronica A, 2003. Growth pattern of infants fed with a mixture of extruded malted maize and cowpea. Nutrition 19, 174–178. https://doi.org/10.1016/S0899-9007(02)01102-4
Obayelu Abiodun Elijah, Adeoti John Olatunji, Dontsop Nguezet Paul Martins, 2017. Technical efficiency and impact evaluation differentials between the adopters and non-adopters of NERICA in the six baseline states in Nigeria. Review of Agricultural and Applied Economics 20, 3–15. https://doi.org/10.22004/ag.econ.264571
Ochieng Justus, Afari-Sefa Victor, Karanja Daniel, Kessy Radegunda, Rajendran Srinivasulu, Samali Silvest, 2018. How promoting consumption of traditional African vegetables affects household nutrition security in Tanzania. Renewable Agriculture and Food Systems 33, 105–115. https://doi.org/10.1017/S1742170516000508
Ochoa Theresa J, Baiocchi Nelly, Valdiviezo Gladys, Bullon Vanessa, Campos Miguel, Llanos-Cuentas Alejandro, 2017. Evaluation of the efficacy, safety and acceptability of a fish protein isolate in the nutrition of children under 36 months of age. Public health nutrition 20, 2819–2826. https://doi.org/10.1017/S136898001700163X
Ochoa-Aviles Angelica, Verstraeten Roosmarijn, Huybregts Lieven, Andrade Susana, Van Camp John, Donoso Silvana, Ramirez Patricia Liliana, Lachat Carl, Maes Lea, Kolsteren Patrick, 2017. A school-based intervention improved dietary intake outcomes and reduced waist circumference in adolescents: a cluster randomized controlled trial. Nutrition journal 16, 79. https://doi.org/10.1186/s12937-017-0299-5
Ochola S A, Labadarios D, Nduati R W, 2013. Impact of counselling on exclusive breast-feeding practices in a poor urban setting in Kenya: A randomized controlled trial. Public Health Nutrition 16, 1732–1740. https://doi.org/10.1017/S1368980012004405
Oelofse A, Van Raaij J M A, Benade A J S, Dhansay M A, Tolboom J J M, Hautvast J G A J, 2003. The effect of a micronutrient-fortified complementary food on micronutrient status, growth and development of 6- to 12-month-old disadvantaged urban South African infants. International journal of food sciences and nutrition 54, 399–407. https://doi.org/10.1080/0963748031000092161
Ogot N O, Pittchar J O, Midega C A. O, Khan Z R, 2017. IMPACT OF PUSH-PULL TECHNOLOGY ON THE NUTRITIONAL STATUS OF FARMERS' CHILDREN IN WESTERN KENYA. African Journal of Food, Agriculture, Nutrition and Development 17, 12953–12974. https://doi.org/10.18697/ajfand.80.17050
Ogunlade A O, Kruger H S, Jerling J C, Smuts C M, Covic N, Hanekom S M, Mamabolo R L, Kvalsvig J, 2011. Point-of-use micronutrient fortification: lessons learned in implementing a preschool-based pilot trial in South Africa. International Journal of Food Sciences and Nutrition 62, 1-16. https://doi.org/10.3109/09637486.2010.495710
Ogunniyi Adebayo, Oluseyi Olagunju Kehinde, Adeyemi Ogundipe, Kabir Salman K, Philips Francis, 2017. Scaling up agricultural innovation for inclusive livelihood and productivity outcomes in sub-Saharan Africa: the case of Nigeria. African Development Review 29, 121–134.
Ogutu S, Fongar A, Godecke T, Jackering L, Mwololo H, Njuguna M, Wollni M, Qaim M, 2018. How to Make Farming and Agricultural Extension More Nutrition-Sensitive: Evidence from a Randomized Controlled Trial in Kenya. European Review of Agricultural Economics 47, 95–118. https://doi.org/10.1093/erae/jby049
Ogutu S O, Okello J J, Otieno D J, 2014. Impact of Information and Communication Technology-Based Market Information Services on Smallholder Farm Input Use and Productivity: The Case of Kenya. World Development 64, 311–21. https://doi.org/10.1016/j.worlddev.2014.06.011
Ohly H, Broadley M R, Joy E J. M, Khan M J, McArdle H, Zaman M, Zia M, Lowe N, 2019. The BiZiFED project: Biofortified zinc flour to eliminate deficiency in Pakistan. Nutrition Bulletin 44, 60–64. https://doi.org/10.1111/nbu.12362
Okello Julius J, Carl Johan, Lagerkvist, Gordon Prain, Penina Muoki, Simon Heck, 2018. Does Information on Food Production Technology Affect Consumers' Acceptance of Biofortified Foods? Evidence from a Field Experiment in Kenya. Journal of agricultural & food information 19, 237–254. https://doi.org/10.1080/10496505.2017.1383914
Oken E, Patel R, Guthrie L B, Vilchuck K, Bogdanovich N, Sergeichick N, Palmer T M, Kramer M S, Martin R M, 2013. Effects of an intervention to promote breastfeeding on maternal adiposity and blood pressure at 11.5 y postpartum: results from the Promotion of Breastfeeding Intervention Trial, a cluster-randomized controlled trial. American journal of clinical nutrition 98, 1048–1056. https://doi.org/10.3945/ajcn.113.065300
Okwuokenye G F, Okoedo-Okojie D U, 2014. Evaluation of Extension Agents Commitment to the Agricultural Loans and Inputs Supply Programme on Special Rice Production in Delta State, Nigeria 18, 327–335.
Olaya Gilma A, Lawson Margaret, Fewtrell Mary S, 2013. Efficacy and safety of new complementary feeding guidelines with an emphasis on red meat consumption: a randomized trial in Bogota, Colombia. The American journal of clinical nutrition 98, 983–93. https://doi.org/10.3945/ajcn.112.053595
Oli Natalia, Vaidya Abhinav, Eiben Gabriele, Krettek Alexandra, 2019. Effectiveness of health promotion regarding diet and physical activity among Nepalese mothers and their young children: The Heart-health

Associated Research, Dissemination, and Intervention in the Community (HARDIC) trial. Global Health Action 12, 1–12. https://doi.org/10.1080/16549716.2019.1670033

Oliveira Renata Carvalho, Fernandes Ana Carolina, da Costa Proenca Rossana Pacheco, Hartwell Heather, Rodrigues Vanessa Mello, Colussi Claudia Flemming, Fiates Giovanna M. R, 2018. Menu labelling and healthy food choices: a randomised controlled trial. British Food Journal 120, 788–803. https://doi.org/10.1108/BFJ-04-2017-0248

Oliveira Sheyla Costa de, Fernandes Ana Fátima Carvalho, de Vasconcelos Eliane Maria Ribeiro, Ximenes Lorena Barbosa, Leal Luciana Pedrosa, Cavalcanti Ana Marcia Tenório Souza, Lopes Marcos Venícios de Oliveira, 2018. Effect of an educational intervention on pregnancy: a cluster-randomized clinical trial. Acta Paulista de Enfermagem 31, 291–298. https://doi.org/10.1590/1982-0194201800041

Olney D K, Bliznashka L, Pedehombga A, Dillon A, Ruel M T, Heckert J, 2016. A 2-year integrated agriculture and nutrition program targeted to mothers of young children in Burkina Faso reduces underweight among mothers and increases their empowerment: a cluster-randomized controlled trial. Journal of Nutrition 146, 1109–1117. https://doi.org/10.3945/jn.115.224261

Olney D K, Pollitt E, Kariger P K, Khalfan S S, Ali N S, Tielsch J M, Sazawal S, Black R, Allen L H, Stoltzfus R J, 2006. Combined iron and folic acid supplementation with or without zinc reduces time to walking unassisted among Zanzibari infants 5- to 11-mo old. The Journal of Nutrition 136, 2427–34. https://doi.org/10.1093/jn/136.9.2427

Omer Anteneh, Mulualem Demmelash, Classen Henry, Vatanparast Hassan, Whiting Susan J, 2018. A community poultry intervention to promote egg and eggshell powder consumption by young children in Halaba Special Woreda, SNNPR, Ethiopia. Journal of Agricultural Science 10, 1–12. https://doi.org/10.5539/jas.v10n5p1

Omotayo M O, Dickin K L, Pelletier D L, Mwanga E O, Kung'u J K, Stoltzfus R J, 2017. A Simplified Regimen Compared with WHO Guidelines Decreases Antenatal Calcium Supplement Intake for Prevention of Preeclampsia in a Cluster-Randomized Noninferiority Trial in Rural Kenya. The Journal of nutrition 147, 1986–1991. https://doi.org/10.3945/jn.117.251926

Omotilewa Oluwatoba J, Ricker-Gilbert Jacob, Ainembabazi John Herbert, Shively Gerald E, 2018. Does Improved Storage Technology Promote Modern Input Use and Food Security? Evidence from a Randomized Trial in Uganda. Journal of Development Economics 135, 176–98. https://doi.org/10.1016/j.jdeveco.2018.07.006

Ongachi Wycliffe, Onwonga Richard, Nyanganga Hillary, Okry Florent, 2017. Comparative analysis of Video Mediated Learning and Farmer Field School approach on adoption of Striga control technologies in Western Kenya. International Journal of Agricultural Extension 5, 1–10.

Oni S A, Maliwichi L L, Obadire O S, 2011. Assessing the contribution of smallholder irrigation to household food security, in comparison to dryland farming in Vhembe district of Limpopo province, South Africa. African Journal of Agricultural Research 6, 2188–2197. https://doi.org/10.5897/AJAR10.929

Opare-Atakora D Y, Donkoh S A, Alhassan A, 2014. Farmer Field Fora and adoption of yam integrated pest and disease management technologies in Northern Ghana. Journal of Agricultural Extension and Rural Development 6, 143–152. https://doi.org/10.5897/JAERD2013.0568

Oparinde A, Birol E, Murekezi A, Katsvairo L, Diressie M T, Nkundimana J A, Butare L, 2016. Radio messaging frequency, information framing, and consumer willingness to pay for biofortified iron beans: evidence from revealed preference elicitation in rural Rwanda. Special Issue: Applications of behavioral and experimental economics to decision making in the agricultural, food, and resource sectors. 64, 613–652. https://doi.org/10.1111/cjag.12105

Orbicon A, S, 2011. Evaluation Of The Farmer Field School Approach In The Agriculture Sector Programme Support, Bangladesh, Evaluation Department, Ministry of Foreign Affairs of Denmark. Evaluation Department, Ministry of Foreign Affairs of Denmark.

Oropeza-Ceja Lorena G, Rosado Jorge L, Ronquillo Dolores, García Olga P, del C Caamaño María, García-Ugalde Carlos, Viveros-Contreras Rubi, Duarte-Vázquez Miguel Angel, 2018. Lower Protein Intake Supports Normal Growth of Full-Term Infants Fed Formula: A Randomized Controlled Trial. Nutrients 10. https://doi.org/10.3390/nu10070886

Osei A, Pandey P, Nielsen J, Pries A, Spiro D, Davis D, Quinn V, Haselow N, 2017. Combining Home Garden, Poultry, and Nutrition Education Program Targeted to Families With Young Children Improved Anemia Among Children and Anemia and Underweight Among Nonpregnant Women in Nepal. Food and nutrition bulletin 38, 49–64. https://doi.org/10.1177/0379572116676427

Osei Akoto K, Pandey Pooja, Spiro David, Adhikari Debendra, Haselow Nancy, De Morais Caroline, Davis Dale, 2015. Adding multiple micronutrient powders to a homestead food production programme yields marginally significant benefit on anaemia reduction among young children in Nepal. Maternal & Child Nutrition 11, 188–202. https://doi.org/10.1111/mcn.12173

Osei Akoto K, Rosenberg Irwin H, Houser Robert E, Bulusu Saraswati, Mathews Minnie, Hamer Davidson H, 2010. Community-Level Micronutrient Fortification of School Lunch Meals Improved Vitamin A, Folate, and Iron Status of Schoolchildren in Himalayan Villages of India. Journal of Nutrition 140, 1146–1154. https://doi.org/10.3945/jn.109.114751

Osei R D, Dzanku F M, Osei-Akoto I, Asante F, Hodey L S, Adu P N, Adu-Ababio K, Coulibaly M, 2018. Impact of voice reminders to reinforce harvest aggregation services training for farmers in Mali, 3ie Series Report.

Osendarp S J. M, Santosham M, Black R E, Wahed M A, van Raaij J M. A, Fuchs G J, 2002. Effect of zinc supplementation between 1 and 6 mo of life on growth and morbidity of Bangladeshi infants in urban slums. American Journal of Clinical Nutrition 76, 1401–8. https://doi.org/10.1093/ajcn/76.6.1401

Osendarp Sasika J. M, van Raaij Joop M. A, Darmstadt Gary L, Baqui Abdullah H, Hautvast Joseph G A J, Fuchs George J, 2001. Zinc supplementation during pregnancy and effects on growth and morbidity in low birthweight infants: a randomised placebo controlled trial. Lancet 357, 1080–1085. https://doi.org/10.1016/S0140-6736(00)04260-4

Osendarp Saskia JM, Baghurst Katrine I, Bryan Jannet, Calvaresi Eva, Hughes Donna, Hussaini Mahdin, Karyadi Elvina, van Klinken B Jan-Willem, van der Knaap Henk CM, Lukito Widjaja, Mikarsa Hera, Transler Catherine, Wilson Carlene, 2007. Effect of a 12-mo micronutrient intervention on learning and memory in well-nourished and marginally nourished school-aged children: 2 parallel, randomized, placebo-controlled studies in Australia and Indonesia. American journal of clinical nutrition 86, 1082-1093. https://doi.org/10.1093/ajcn/86.4.1082

Osrin David, Vaidya Anjana, Shrestha Yagya, Baniya Ram Bahadur, Manandhar Dharma S, Adhikari Ramesh K, Filteau Suzanne, Tomkins Andrew, Costello Anthony M. de L, 2005. Effects of antenatal multiple micronutrient supplementation on birthweight and gestational duration in Nepal: double-blind, randomised controlled trial. Lancet 365, 955–962. https://doi.org/10.1016/S0140-6736(05)71084-9

Ostadrahimi A, Mohammad-Alizadeh S, Mirghafourvand M, Farshbaf-Khalili S, Jafarilar-Agdam N, Farshbaf-Khalili A, 2017. The effect of fish oil supplementation on maternal and neonatal outcomes: a triple-blind, randomized controlled trial. Journal of Perinatal Medicine 45, 1069–1077. https://doi.org/10.1515/jpm-2016-0037

Ostadrahimi A, Nikniaz L, Mahdavi R, Hejazi M A, Nikniaz Z, 2013. Effects of synbiotic supplementation on lactating mothers' energy intake and BMI, and infants' growth. International journal of food sciences and nutrition 64, 711–4. https://doi.org/10.3109/09637486.2013.775229

Ouedraogo Aissatou, Dillon Andrew, Maiga Eugenie, 2018. Social networks, production of micronutrient-rich foods, and child health outcomes in Burkina Faso. https://doi.org/10.22004/ag.econ.273883

Ouladsahebmadarek Elaheh, Sayyah-Melli Manizheh, Taghavi Simin, Abbasalizadeh Shamsi, Seyedhejazie Mahin, 2011. The effect of supplemental iron elimination on pregnancy outcome. Pakistani Journal of Medical Science 27, 641–645.

Ouma E, Dubois T, Kabunga N, Nkurunziza S, Qaim M, van Asten P J. A, 2013. Adoption and Impact of Tissue Culture Bananas in Burundi: An Application of a Propensity Score Matching Approach. Banana Systems in the Humid Highlands of Sub-Saharan Africa: Enhancing Resilience and Productivity 216–23. https://doi.org/10.1079/9781780642314.0216

Owino Victor O, Bahwere Paluku, Bisimwa Ghislain, Mwangi Christine M, Collins Steve, 2011. Breast-milk intake of 9-10-mo-old rural infants given a ready-to-use complementary food in South Kivu, Democratic Republic of Congo. American Journal of Clinical Nutrition 93, 1300–1304. https://doi.org/10.3945/ajcn.110.006544

Owino Victor O, Kasonka Lackson M, Sinkala Moses M, Wells Jonathan K, Eaton Simon, Darch Tegan, Coward Andrew, Tomkins Andrew M, Filteau Suzanne M, 2007. Fortified complementary foods with or without α-amylase treatment increase hemoglobin but do not reduce breast milk intake of 9-mo-old Zambian infants. American Journal of Clinical Nutrition AJN 86, 1094–1103. https://doi.org/10.1093/ajcn/86.4.1094

Owusu-Agyei S, Newton S, Mahama E, Febir L G, Ali M, Adjei K, Tchum K, Alhassan L, Moleah T, Tanumihardjo S A, 2013. Impact of vitamin a with zinc supplementation on malaria morbidity in Ghana. Nutrition Journal 12. https://doi.org/10.1186/1475-2891-12-131

Oyedele O A, Adenegan K O, 2017. Impact of the Production of Underutilized Vegetables on the Livelihood of Farmers in Southwestern Nigeria. International Journal of Social Economics 44, 1669–82. https://doi.org/10.1108/IJSE-03-2016-0081

Ozer Emily J, Fernald Lia C. H, Manley James G, Gertler Paul J, 2009. Effects of a conditional cash transfer program on children's behavior problems. Pediatrics 123, e630–e637. https://doi.org/10.1542/peds.2008-2882

Özlüses E, Celebioglu A, 2014. Educating fathers to improve breastfeeding rates and paternal-infant attachment. Indian Pediatrics 51, 654–657. https://doi.org/10.1007/s13312-014-0471-3

Pachon Helena, Schroeder Dirk G, Marsh David R, Dearden Kirk A, Ha Tran Thu, Lang Tran Thi, 2002. Effect of an integrated child nutrition intervention on the complementary food intake of young children in rural north Viet Nam. Food and nutrition bulletin 23, 62–9.

Padhyoti Yadav, Dutta Jay Prakash, Regmi Punya Prasad, Chaudhary Narendra Kumar, 2015. Analysis of the impact of Praganna Irrigation Project (PIP) on income and employment in Dang district of Nepal. Journal of Agriculture and Environment 16, 142–155. https://doi.org/10.3126/aej.v16i0.19847

Padilla-Raygoza Nicolas, Diaz-Guerrero Rosalina, Ruiz-Paloalto Ma Laura, 2013. Lifestyle intervention as a treatment for obesity among school-age-children in Celaya, Guanajuato: An experimental study. Central Asian journal of global health 2, 21. https://doi.org/10.5195/cajgh.2013.21

Paganini D, Uyoga M A, Cercamondi C I, Moretti D, Mwasi E, Schwab C, Bechtler S, Mutuku F, Galetti G, Lacroix C, Karanja S, Zimmermann M B, 2017. Consumption of galacto-oligosaccharides increases iron absorption from a micronutrient powder containing ferrous fumarate and sodium iron EDTA: a stable-isotope study in Kenyan infants. Cochrane Central Register of Controlled Trials 2018.

Palmer Amanda C, Craft Neal E, Schulze Kerry J, Barffour Maxwell, Chileshe Justin, Siamusantu Ward, West Jr Keith P, 2018. Impact of biofortified maize consumption on serum carotenoid concentrations in Zambian children. European Journal of Clinical Nutrition 72, 301–303. https://doi.org/10.1038/s41430-017-0054-1

Palmer Amanda C, Healy Katherine, Barffour Maxwell A, Siamusantu Ward, Chileshe Justin, Schulze Kerry J, West Keith P Jr, Labrique Alain B, 2016. Provitamin A Carotenoid-Biofortified Maize Consumption Increases Pupillary Responsiveness among Zambian Children in a Randomized Controlled Trial. The Journal of nutrition 146, 2551–2558. https://doi.org/10.3945/jn.116.239202

PalmerAmanda C, Chileshe Justin, Hall Andrew G, Barffour Maxwell A, Molobeka Ngosa, West Keith P. Jr, Haskell Marjorie J, 2016. Short-Term Daily Consumption of Provitamin A Carotenoid-Biofortified Maize Has Limited Impact on Breast Milk Retinol Concentrations in Zambian Women Enrolled in a Randomized Controlled Feeding Trial. Journal of Nutrition 146, 1783–1792. https://doi.org/10.3945/jn.116.233700

Palmer-Jones Richard, Dilokkunanant Nipont, Phonyiam Boontham, Punyaratabandhu Sompit, Sutthiwongse Tiwaporn, Hanpongpandh Somporn, 2012. Impact Evaluation Of Mae Lao Irrigation Improvement Project, Thailand, 3ie Series Report. 3ie Series Report, Completed.

Pamuk H, Bulte E, Adekunle A, Diagne A, 2015. Decentralised Innovation Systems and Poverty Reduction: Experimental Evidence from Central Africa. European Review of Agricultural Economics 42, 99–127. https://doi.org/10.1093/erae/jbu007

Pan D, Zhang N, 2018. The role of agricultural training on fertilizer use knowledge: a randomized controlled experiment. Ecological Economics 148, 77–91. https://doi.org/10.1016/j.ecolecon.2018.02.004

Pan Dan, Kong Fanbin, Zhang Ning, Ying Ruiyao, 2017. Knowledge training and the change of fertilizer use intensity: Evidence from wheat farmers in China. Journal of Environmental Management 197, 130–139. https://doi.org/10.1016/j.jenvman.2017.03.069

Pan Yao, Smith Stephen C, Sulaiman Munshi, 2018. Agricultural Extension and Technology Adoption for Food Security: Evidence from Uganda. American Journal of Agricultural Economics 100, 1012–1031. https://doi.org/10.1093/ajae/aay012

Paritakul Panwara, Ruangrongmorakot Kasem, Laosooksathit Wipada, Suksamarnwong Maysita, Puapornpong Pawin, 2016. The effect of ginger on breast milk volume in the early postpartum period: a randomized, double-blind controlled trial. Breastfeeding Medicine 11, 361–365. https://doi.org/10.1089/bfm.2016.0073

Parker M E, Mosites E, Reider K, Ndayishimiye N, Waring M, Nyandimbane G, Masumbuko D, Ndikuriyo L, Matthias D, 2015. A Blinded, Cluster-Randomized, Placebo-Controlled School FeedingTrial in Burundi Using Rice Fortified With Iron, Zinc, Thiamine, and Folic Acid. Food and nutrition bulletin 36, 481–492. https://doi.org/10.1177/0379572115615234

Parvanta C F, Thomas K K, Zaman K S, 2007. Changing nutrition behavior in Bangladesh: successful adaptation of new theories and anthropological methods. Special issue: Tribute to Christine S. Wilson (1919-2005). 46, 221–244. https://doi.org/10.1080/03670240701407616

Passarelli S, Ambikapathi R, Gunaratna N S, Madzorera I, Canavan C R, Noor A R, Worku A, Berhane Y, Abdelmenan S, Sibanda S, Munthali B, Madzivhandila T, Sibanda L M, Geremew K, Dessie T, Abegaz S, Assefa G, Sudfeld C, McConnell M, Davison K, Fawzi W, 2020. A Chicken Production Intervention and Additional Nutrition Behavior Change Component Increased Child Growth in Ethiopia: A Cluster-Randomized Trial. The Journal of Nutrition 1–12. https://doi.org/10.1093/jn/nxaa181

Passerini L, Casey G J, Biggs B A, Cong D T, Phu L B, Phuc T Q, Carone M, Montresor A, 2012. Increased birth weight associated with regular pre-pregnancy deworming and weekly iron-folic acid supplementation for Vietnamese women. PLoS Neglected Tropical Diseases 6, e1608. https://doi.org/10.1371/journal.pntd.0001608

Patel A B, Kuhite P N, Alam A, Pusdekar Y, Puranik A, Khan S S, Kelly P, Muthayya S, Laba T L, Almeida M, Dibley M J, 2019. M-SAKHI - Mobile health solutions to help community providers promote maternal and infant nutrition and health using a community-based cluster randomized controlled trial in rural India: a study protocol. Maternal and Child Nutrition 15, e12850. https://doi.org/10.1111/mcn.12850

Patel Archana, Kuhite Priyanka, Puranik Amrita, Khan Samreen Sadaf, Borkar Jitesh, Dhande Leena, 2018. Effectiveness of weekly cell phone counselling calls and daily text messages to improve breastfeeding indicators. BMC Pediatrics 18. https://doi.org/10.1186/s12887-018-1308-3

Patriota P F, Filgueiras A R, de Almeida V B P, Alexmovitz G A C, da Silva C E, de Carvalho V F F, Carvalho N, de Albuquerque M P, Domene S M A, do Prado W L, Torres G E S, de Oliveira A P R, Sesso R, Sawaya A L, 2017. Effectiveness of a 16-month multi-component and environmental school-based intervention for recovery of poor income overweight/obese children and adolescents: study protocol of the health multipliers program. BMC public health 17, 708. https://doi.org/10.1186/s12889-017-4715-8

Pawalia Alka, Kulandaivelan Sivachidambaram, Savant Satya, Yadav Vikram Singh, 2017. Exercise in pregnancy: effect on obesity parameters in Indian women - a randomized controlled trial. Romanian Journal of Diabetes Nutrition and Metabolic Diseases 24, 315–323. https://doi.org/10.1515/rjdnmd-2017-0037

Pei Leilei, Wang Duolao, Ren Lin, Yan Hong, 2013. Evaluation of the Rural Primary Health Care project on undernutrition equity among children in rural Western China. Health Policy and Planning 28, 429–434. https://doi.org/10.1093/heapol/czs074

Penny M E, Creed-Kanashira H M, Robert R C, Narro M R, Caulfield L E, Black R E, 2005. Effectiveness of an educational intervention delivered through the health services to improve nutrition in young children: A cluster-randomised controlled trial. The Lancet 365, 1863–1872. https://doi.org/10.1016/S0140-6736%2805%2966426-4

Pérez-Expósito Ana B, Villalpando Salvador, Rivera Juan A, Griffin Ian J, Abrams Steven A, 2005. Ferrous sulfate is more bioavailable among preschoolers than other forms of iron in a milk-based weaning food distributed by PROGRESA, a national program in Mexico. Journal of nutrition 135, 64-69. https://doi.org/10.1093/jn/135.1.64

Perignon M, Fiorentino M, Kuong K, Dijkhuizen M A, Burja K, Parker M, Chamnan C, Berger J, Wieringa F T, 2016. Impact of Multi-Micronutrient Fortified Rice on Hemoglobin, Iron and Vitamin A Status of Cambodian Schoolchildren: a Double-Blind Cluster-Randomized Controlled Trial. Nutrients 8, 15. https://doi.org/10.3390/nu8010029

Persson L A, Arifeen S, Ekstrom E C, Rasmussen K M, Frongillo E A, Yunus M, 2012. Effects of prenatal micronutrient and early food supplementation on maternal hemoglobin, birth weight, and infant mortality among children in Bangladesh: the MINIMat Randomized Trial. JAMA, Journal of the American Medical Association 307, 2050–2059. https://doi.org/10.1001/jama.2012.4061

Perumal N, Al-Mahmud A, Baqui A H, Roth D E, 2017. Prenatal vitamin D supplementation and infant vitamin D status in Bangladesh. Public Health Nutrition 20, 1865–1873. https://doi.org/10.1017/S1368980015003092

Pettersson Jan, Wikström Johan, 2016. Human Fertilizer And The Productivity Of Farming Households. Agroecology and Sustainable Food Systems 40, 48–68. https://doi.org/10.1080/21683565.2015.1100694

Phadera L, Sharma D, Wai-Poi M, 2020. Iraq's Universal Public Distribution System. Policy Research Working Papers. https://doi.org/10.1596/1813-9450-9155

Philippi S T, Leme A C B, 2015. Dietary intake and meal frequency of Brazilian girls attending a school-based randomized controlled trial. Nutrition & Food Science 45, 954–968. https://doi.org/10.1108/NFS-06-2015-0072

Phillips Erica, Ngure Francis, Smith Laura E, Makule Edna, Turner Paul C, Nelson Rebeca, Kimanya Martin, Stoltzfus Rebecca, Kassim Neema, 2020. Protocol for the trial to establish a causal linkage between mycotoxin exposure and child stunting: a cluster randomized trial. BMC public health 20. https://doi.org/10.1186/s12889-020-08694-6

Phu Pham V, Hoan Nguyen V, Salvignol Bertrand, Treche Serge, Wieringa Frank T, Dijkhuizen Marjoleine A, Khan Nguyen C, Tuong Pham D, Schwartz Helene, Berger Jacques, 2012. A Six-Month Intervention With Two Different Types Of Micronutrient-Fortified Complementary Foods Had Distinct Short- And Long-Term Effects On Linear And Ponderal Growth Of Vietnamese Infants. Journal of Nutrition 142, 1735–1740. https://doi.org/10.3945/jn.111.154211

Phu Pham Van, Hoan Nguyen Van, Salvignol Bertrand, Treche Serge, Wieringa Frank Tammo, Khan Nguyen Cong, Tuong Pham Duy, Berger Jacques, 2010. Complementary Foods Fortified with Micronutrients Prevent Iron Deficiency and Anemia in Vietnamese infants. Journal of Nutrition 140, 2241–2247. https://doi.org/10.3945/jn.110.123711

Phuka John C, Gladstone Melissa, Maleta Kenneth, Thakwalakwa Chrissie, Cheung YinBun, Briend Andre, Manary Mark J, Ashorn Per, 2012. Developmental outcomes among 18-month-old Malawians after a year of complementary feeding with lipid-based nutrient supplements or corn-soy flour. Maternal and Child Nutrition 8, 239–248. https://doi.org/10.1111/j.1740-8709.2011.00294.x

Phuka John C, Maleta Kenneth, Thakwalakwa Chrissie, Cheung YinBun, Briend Andre, Manary Mark J, Ashorn Per, 2009. Postintervention growth of Malawian children who received 12-mo dietary complementation with a lipid-based nutrient supplement or maize-soy flour. American Journal of Clinical Nutrition 89, 382–390. https://doi.org/10.3945/ajcn.2008.26483

Pimpão Martins, Fernanda Demutti, Pedrosa Leal, Luciana, Pereira Linhares, Francisca Márcia, da Silva Santos, Alessandro Henrique, de Oliveira Leite Gerlaine, Pontes Cleide Maria, 2018. Effect of the board game as educational technology on schoolchildren's knowledge on breastfeeding. Revista Latino-Americana de Enfermagem (RLAE) 26, 1–12. https://doi.org/10.1590/1518-8345.2316.3049

Pinkaew S, Winichagoon P, Hurrell R F, Wegmuller R, 2013. Extruded rice grains fortified with zinc, iron, and vitamin A increase zinc status of Thai school children when incorporated into a school lunch program1-3. Journal of Nutrition 143, 362–368. https://doi.org/10.3945/jn.112.166058

Pinkaew Siwaporn, 2017. Efficacy of Vitamin A Fortified Rice in Lactating Thai Women.

Piperata Barbara Ann, McSweeney Kendra, Murrieta Rui Sergio, 2016. Conditional Cash Transfers, Food Security, and Health. Current Anthropology 57, 806–826. https://doi.org/10.1086/688912

Ponce J, Ramos-Martin J, 2017. Impact of two policy interventions on dietary diversity in Ecuador. Public Health Nutrition 20, 1473–1480. https://doi.org/10.1017/S1368980017000052

Pooreh S, Nodeh Z H, 2015. Impact of education based on theory of planned behavior: an investigation into hypertension-preventive self-care behaviors in Iranian girl adolescent. Iranian Journal of Public Health 44, 839–847.

Porter Catherine, Goyal Radhika, 2016. Social protection for all ages? Impacts of Ethiopia's Productive Safety Net Program on child nutrition. Social Science & Medicine 159, 92–99. https://doi.org/10.1016/j.socscimed.2016.05.001

Potdar Ramesh D, Sahariah Sirazul A, Gandhi Meera, Kehoe Sarah H, Brown Nick, Sane Harshad, Dayama Monika, Jha Swati, Lawande Ashwin, Coakley Patsy J, Marley-Zagar Ella, Chopra Harsha, Shivshankaran Devi, Chheda-Gala Purvi, Muley-Lotankar Priyadarshini, Subbulakshmi G, Wills Andrew K, Cox Vanessa A, Taskar Vijaya, Barker David J. P, 2014. Improving women's diet quality preconceptionally and during gestation: effects on birth weight and prevalence of low birth weight--a randomized controlled efficacy trial in India (Mumbai Maternal Nutrition Project). American Journal of Clinical Nutrition 100, 1257–1268. https://doi.org/10.3945/ajcn.114.084921

Prado E L, Sebayang S K, Apriatni M, Adawiyah S R, Hidayati N, Islamiyah A, Siddiq S, Harefa B, Lum J, Alcock K J, Ullman M T, Muadz H, Shankar A H, 2017. Maternal multiple micronutrient supplementation and other biomedical and socioenvironmental influences on children's cognition at age 9-12 years in Indonesia: follow-up of the SUMMIT randomised trial. Lancet Global Health 5, e217–e228. https://doi.org/10.1016/S2214-109X(16)30354-0

Prado Elizabeth L, Abbeddou Souheila, Jimenez Elizabeth Yakes, Some Jerome W, Ouedraogo Zinewende P, Vosti Steve A, Dewey Kathryn G, Brown Kenneth H, Hess Sonja Y, Ouedraogo Jean-Bosco, 2016a. Lipid-based nutrient supplements plus malaria and diarrhea treatment increase infant development scores in a cluster-randomized trial in Burkina Faso. Journal of Nutrition 146, 814–822. https://doi.org/10.3945/jn.115.225524

Prado Elizabeth L, Adu-Afarwuah Seth, Lartey Anna, Ocansey Maku, Ashorn Per, Vosti Steve A, Dewey Kathryn G, 2016b. Effects of pre- and post-natal lipid-based nutrient supplements on infant development in a randomized trial in Ghana. Early human development 99, 43–51. https://doi.org/10.1016/j.earlhumdev.2016.05.011

Praneetvatakul Suwanna, Waibel Hermann, 2006. Impact Assessment of Farmer Field School Using A Multi-Period Panel Data Model.

Prasad Mp Rajendra, Benhur Dayakarrao, Kommi Kalpana, Madhari Radhika, Rao M Vishnuvardhan, Patil J V, 2016. Impact of Sorghum Supplementation on Growth and Micronutrient Status of School Going Children in Southern India - A Randomized Trial. Indian journal of pediatrics 83, 9–14. https://doi.org/10.1007/s12098-015-1782-7

Prasitwattanaseree Piyaporn, Sinsucksai Nittayas, Prasopkittikun Tassanee, Viwatwongkasem Chukiat, 2019. Effectiveness of Breastfeeding Skills Training and Support Program among First Time Mothers: A Randomized Control Trial. Pacific Rim International Journal of Nursing Research 23, 258–270.

Pratiwi A, Suzuki A, 2020. Does training location matter? Evidence from a randomized field experiment in Rural Indonesia. Agricultural and Food Economics 8, 1–23. https://doi.org/10.1186/s40100-019-0146-4

Prawirohartono E P, Nystrom L, Nurdiati D S, Hakimi M, Lind T, 2013. The impact of prenatal vitamin A and zinc supplementation on birth size and neonatal survival - a double-blind, randomized controlled trial in a rural area of Indonesia. International Journal for Vitamin and Nutrition Research 83, 14–25. https://doi.org/10.1024/0300-9831/a000141z

Prentice Ann, Ward Kate A, Nigdikar Shailja, Hawkesworth Sophie, Moore Sophie E, 2019. Pregnancy supplementation of Gambian mothers with calcium carbonate alters mid-childhood IGF1 in a sex-specific manner. Bone 120, 314–320. https://doi.org/10.1016/j.bone.2018.11.011

Pretari Alexia, 2019. Resilience in North East Ghana: Impact Evaluation of the Climate Resilient Agricultural and Food Systems (CRAFS) project. https://doi.org/10.21201/2019.5235

Prudhon C, Langendorf C, Roederer T, Doyon S, Mamaty A A, Woi-Messe L, Manzo M L, Pee S, Grais R F, 2017. Effect of ready-to-use foods for preventing child undernutrition in Niger: analysis of a prospective intervention study over 15 months of follow-up. Maternal and Child Nutrition 13. https://doi.org/10.1111/mcn.12236

Pulakka A, Ashorn U, Cheung Y B, Dewey K G, Maleta K, Vosti S A, Ashorn P, 2015. Effect of 12-month intervention with lipid-based nutrient supplements on physical activity of 18-month-old Malawian children: a randomised, controlled trial. European Journal of Clinical Nutrition 69, 173–178. https://doi.org/10.1038/ejcn.2014.138

Putra R Ahmad Romadhoni Surya, Liu Zhen, Lund Mogens, 2017. The impact of biogas technology adoption for farm households – Empirical evidence from mixed crop and livestock farming systems in Indonesia. Renewable and Sustainable Energy Reviews 74, 1371–1378. https://doi.org/10.1016/j.rser.2016.11.164

Quintero-Gutierrez Adrian Guillermo, Gonzalez-Rosendo Guillermina, Pozo Javier Polo, Villanueva-Sanchez Javier, 2016. Heme Iron Concentrate and Iron Sulfate Added to Chocolate Biscuits: Effects on Hematological Indices of Mexican Schoolchildren. Journal of the American College of Nutrition 35, 544–551. https://doi.org/10.1080/07315724.2015.1060875

Quizán-Plata T, Villarreal L M, Esparza J R, Bolaños A V, Díaz R Z, 2014. Educational program had a positive effect on the intake of fat, fruits and vegetables and physical activity in students attending public elementary schools of Mexico. Nutricion hospitalaria 30, 552-561. https://doi.org/10.3305/nh.2014.30.3.7438

Radhakrishna K V, Hemalatha R, Geddam B J, Kumar P A, Balakrishna N, Shatrugna V, 2013. Effectiveness of Zinc Supplementation to Full Term Normal Infants: A Community Based Double Blind, Randomized, Controlled, Clinical Trial. PLoS One 8. https://doi.org/10.1371/journal.pone.0061486

Radhika M S, Bhaskaram P, Balakrishna N, Ramalakshmi B A, 2003. Red palm oil supplementation: a feasible diet-based approach to improve the vitamin A status of pregnant women and their infants. Food and Nutrition Bulletin 24, 208–217. https://doi.org/10.1177/156482650302400207

Radhika M S, Nair K M, Kumar R H, Rao M V, Ravinder P, Reddy C G, Brahmam G N, 2011. Micronized ferric pyrophosphate supplied through extruded rice kernels improves body iron stores in children: a double-blind, randomized, placebo-controlled midday meal feeding trial in Indian schoolchildren. American journal of clinical nutrition 94, 1202–1210. https://doi.org/10.3945/ajcn.110.007179

Rafieyan-Kopaei Z, Fathian-Dastgerdi Z, Tarrahi M J, Zamani-Alavijeh F, 2019. Effectiveness of message-framing intervention on complementary feeding related behaviors among mothers with infants aged 4-8 months: a 3-arm randomized controlled trial. Italian Journal of Pediatrics 45. https://doi.org/10.1186/s13052-019-0749-0

Ragasa Catherine, Lambrecht Isabel, Kufoalor Doreen S, 2018. Limitations of Contract Farming as a Pro-poor Strategy: The Case of Maize Outgrower Schemes in Upper West Ghana. World Development 102, 30–56. https://doi.org/10.1016/j.worlddev.2017.09.008

Ragasa Catherine, Nkonya Ephraim M, Ulimwengu John M, Randriamamonjy Jose, 2016. Challenges in implementing a small-scale farmers capacity-building program: The case of the food production, processing, and marketing project in the Democratic Republic of Congo 1501.

Raghunathan K, Kannan S, Quisumbing A, 2018. Women's self-help groups, decision-making, and improved agricultural practices in India. Presented at the IFPRI Discussion Paper, INTERNATIONAL FOOD POLICY RESEARCH INSTITUTE, p. 42.

Raghunathan Kalyani, Menon Purnima, Kumar Neha, Gupta Shivani, Chauhan Tarana, Pandey Shinjini, Kathuria Ashi, 2020. If Only I Knew: Nutrition Behavior Change Delivered by Women's Groups Has Impacts on Diet

Quality That Are Mediated by Knowledge in Rural Bihar, India. Current Developments in Nutrition 4. https://doi.org/10.1093/cdn/nzaa053_094

Rah Jee Hyun, de Pee Saskia, Halati Siti, Parveen Monira, Mehjabeen Syeda Sajia, Steiger Georg, Bloem Martin W, Kraemer Klaus, 2011. Provision of micronutrient powder in response to the Cyclone Sidr emergency in Bangladesh: cross-sectional assessment at the end of the intervention. Food and Nutrition Bulletin 32, 277–285. https://doi.org/10.1177/156482651103200313

Rahman A, 2016a. Universal food security program and nutritional intake: Evidence from the hunger prone KBK districts in Odisha. Food Policy 63, 73–86. https://doi.org/10.1016/j.foodpol.2016.07.003

Rahman A, 2016b. Promotion of Complimentary Feeding Practices in Bangladesh. Cochrane Central Register of Controlled Trials 2018.

Rahman Ahmed S, Ahmed Tahmeed, Ahmed Faiz, Alam Mohammad S, Wahed Mohammad A, Sack David A, 2015. Double-blind cluster randomised controlled trial of wheat flour chapatti fortified with micronutrients on the status of vitamin A and iron in school-aged children in rural Bangladesh. Maternal and child nutrition 11, 120–131.

Rahman M M, Tofail F, Wahed M A, Fuchs G J, Baqui A H, Alvarez J O, 2002. Short-term supplementation with zinc and vitamin A has no significant effect on the growth of undernourished Bangladeshi children. American Journal of Clinical Nutrition 75, 87–91. https://doi.org/10.1093/ajcn/75.1.87

Rahman M S, Norton G W, 2019. Farm-level impacts of eggplant integrated pest management: a stochastic frontier production function approach. International Journal of Vegetable Science 25, 590–600. https://doi.org/10.1080/19315260.2019.1566188

Rahman Mahfuzur, Nymar Zannatun, 2019. School-Based Nutrition Education in Improving Dietary Diversity Among Adolescent Girls. Clinical trials.gov.

Rahman Mohammad Mahbubur, 2012. Estimating the Effects of Social Safety Net Programmes in Bangladesh on Calorie Consumption of Poor Households. The Bangladesh Development Studies 35, 67–85.

Rajagopalan S, Vinodkumar M, 2000. Effects of Salt Fortified with Iron and Iodine on the Haemoglobin Levels and Productivity of Tea Pickers. Food and Nutrition Bulletin 21. https://doi.org/10.1177/156482650002100313

Ramakrishnan U, Neufeld L M, Flores R, Rivera J, Martorell R, 2009. Multiple micronutrient supplementation during early childhood increases child size at 2 y of age only among high compliers. American Journal of Clinical Nutrition 89, 1125–1131. https://doi.org/10.3945/ajcn.2008.26874

Ramakrishnan U, Neufeld L M, Gonzalez-Cossio T, Villalpando S, Garcia-Guerra A, Rivera J, Martorell R, 2004. Multiple micronutrient supplements during pregnancy do not reduce anemia or improve iron status compared to iron-only supplements in Semirural Mexico. American Society for Nutritional Sciences. https://doi.org/10.1093/jn/134.4.898

Ramakrishnan Usha, Nguyen Phuong H, Gonzalez-Casanova Ines, Pham Hoa, Hao Wei, Nguyen Hieu, Truong Truong V, Nguyen Son, Harding Kimberly B, Reinhart Gregory A, Neufeld Lynnette M, Martorell Reynaldo, 2016. Neither preconceptional weekly multiple micronutrient nor iron-folic acid supplements affect birth size and gestational age compared with a folic acid supplement alone in rural Vietnamese women: a randomized controlled trial. Journal of Nutrition 146, 1445S-1452S. https://doi.org/10.3945/jn.115.223420

Ramírez-Luzuriaga M J, Unar-Munguía M, Rodríguez-Ramírez S, Rivera J A, González de Cosío T, 2016. A Food Transfer Program without a Formal Education Component Modifies Complementary Feeding Practices in Poor Rural Mexican Communities. Journal of Nutrition 146, 107–113. https://doi.org/10.3945/jn.115.215962

Ramı´rez-Silva Ivonne, Rivera Juan A, Leroy Jef L, Neufeld Lynnette M, 2013. The Oportunidades Program!S Fortified Food Supplement, But Not Improvements In The Home Diet, Increased The Intake Of Key Micronutrients In Rural Mexican Children Aged 12-59 Months. Journal of Nutrition 143, 656–663. https://doi.org/10.3945/jn.112.162792

Rana Md Masud, Van Huan Nguyen, Ngoc Thach Nguyen, 2018. Effectiveness of a community-based IYCF support group programme among ethnic minorities in Vietnam. Field Exchange - Emergency Nutrition Network ENN 71–74.

Rao G M S, Rao D R, Venkaiah K, Dube A K, Sarma K V R, 2006. Evaluation of the Food and Agriculture Organization's global school-based nutrition education initiative, Feeding Minds, Fighting Hunger (FMFH), in schools of Hyderabad, India. Public Health Nutrition 9, 991–995. https://doi.org/10.1017/s1368980006009748

Rao Xudong, Zhang Yuehua, 2020. Livestock Insurance, Moral Hazard, and Farmers' Decisions: A Field Experiment among Hog Farms in China. Geneva Papers on Risk and Insurance: Issues and Practice 45, 134–156. https://doi.org/10.1057/s41288-019-00151-9

Rath Suchitra, Prost Audrey, Samal Subhashree, Pradhan Hemanta, Copas Andrew, Gagrai Sumitra, Rath Shibanand, Gope Raj Kumar, Nair Nirmala, Tripathy Prasanta, Bhatia Komal, Rose-Clarke Kelly, 2020. Community youth teams facilitating participatory adolescent groups, youth leadership activities and livelihood promotion to improve school attendance, dietary diversity and mental health among adolescent girls in rural eastern India: protocol for a cluster-randomised controlled trial. Trials 21, 1–14. https://doi.org/10.1186/s13063-019-3984-1

Rattanaselanon Peerayut, Lormphongs Srirat, Chanvaivit Sirirat, Morioka Ikuharu, Sanprakhon Panawat, 2018. An Occupational Health Education Program for Thai Farmers Exposed to Chlorpyrifos. Asia-Pacific Journal of Public Health 30, 666–672. https://doi.org/10.1177/1010539518806042

Rauber Fernanda, Hoffman Daniel J, Vitolo Marcia Regina, 2014. Diet quality from pre-school to school age in Brazilian children: a 4-year follow-up in a randomised control study. The British journal of nutrition 111, 499–505. https://doi.org/10.1017/S0007114513002857

Rawat Rahul, Hong Nguyen Phuong, Tran Lan Mai, Hajeebhoy Nemat, Nguyen Huan Van, Baker Jean, Frongillo Edward A, Ruel Marie T, Menon Purnima, 2017. Social franchising and a nationwide mass media campaign increased the prevalence of adequate complementary feeding in Vietnam: a cluster-randomized program evaluation. Journal of Nutrition 147, 670–679. https://doi.org/10.3945/jn.116.243907

Rawlins R, Pimkina S, Barrett C B, Pedersen S, Wydick B, 2014. Got milk? The impact of Heifer International's livestock donation programs in Rwanda on nutritional outcomes. Food Policy 44, 202–213. https://doi.org/10.1016/j.foodpol.2013.12.003

Raza Wameq A, Das Narayan C, Misha Farzana A, 2012. Can Ultra-Poverty Be Sustainably Improved? Evidence From BRAC In Bangladesh. Journal of Development Effectiveness 4, 257–276. https://doi.org/10.1080/19439342.2012.686046

Reboucas Amanda de Sousa, Silva Ana Gabriella Costa Lemos da, Oliveira Amanda Freitas de, Silva Lorena Thalia Pereira da, Felgueiras Vanessa de Freitas, Cruz Marina Sampaio, Silbiger Vivian Nogueira, Ribeiro Karla Danielly da Silva, Dimenstein Roberto, 2019. Factors associated with increased alpha-tocopherol content in milk in response to maternal supplementation with 800 IU of vitamin E. Nutrients 11. https://doi.org/10.3390/nu11040900

Redzwan Sabran Mohd, Mohd Sokhini Abd Mutalib, Wang Jia-Sheng, Ahmad Zuraini, Kang MinSu, Rahman Nurul 'Aqilah Abdul, Nasrabadi Elham Nikbakht, Jamaluddin Rosita, 2016. Effect of supplementation of fermented milk drink containing probiotic Lactobacillus casei Shirota on the concentrations of aflatoxin biomarkers among employees of Universiti Putra Malaysia: a randomised, double-blind, cross-over, placebo-controlled study. British Journal of Nutrition 115, 39–54. https://doi.org/10.1017/S0007114514004109

Reham Mohammad Khresheh, 2019. Improving Exclusive Breastfeeding Via Mobile Phone Text Messages. https://clinicaltrials.gov/show/NCT03890978.

Reinbott A, 2016. Effectiveness of a nutrition education intervention to improve complementary feeding practices: a randomized trial in Cambodia. Effectiveness of a nutrition education intervention to improve complementary feeding practices: a randomized trial in Cambodia.

Reinbott A, Schelling A, Kuchenbecker J, Jeremias T, Russell I, Kevanna O, Krawinkel M B, Jordan I, 2016. Nutrition education linked to agricultural interventions improved child dietary diversity in rural Cambodia. The British journal of nutrition 116, 1457–1468. https://doi.org/10.1017/s0007114516003433

Rejesus Roderick M, Mutuc Maria Erlinda M, Yasar Mahmut, Lapitan Aileen V, Palis Florencia G, Chi Truong Thi Ngoc, 2012. Sending Vietnamese Rice Farmers Back to School: Further Evidence on the Impacts of Farmer Field Schools. Canadian Journal of Agricultural Economics 60, 407–426. https://doi.org/10.1111/j.1744-7976.2011.01242.x

Rejesus Roderick M, Palis Florencia G, Rodriguez Divina Gracia P, Lampayan Ruben M, Bouman Bas A. M, 2011. Impact of the Alternate Wetting and Drying (AWD) Water-Saving Irrigation Technique: Evidence from Rice Producers in the Philippines. Food Policy 36, 280–88. https://doi.org/10.1016/j.foodpol.2010.11.026

Renzaho A M. N, Chitekwe S, Chen Wen, Rijal S, Dhakal T, Dahal P, 2017. The synergetic effect of cash transfers for families, child sensitive social protection programs, and capacity building for effective social protection on children's nutritional status in Nepal. International Journal of Environmental Research and Public Health 14, 1502. https://doi.org/10.3390/ijerph14121502

Rerksuppaphol S, Rerksuppaphol L, 2016. Effect of zinc plus multivitamin supplementation on growth in school children. Pediatrics international 58, 1193-1199. https://doi.org/10.1111/ped.13011

Ribaya-Mercado J D, Maramag C C, Tengco L W, Dolnikowski G G, Blumberg J B, Solon F S, 2007. Carotene-rich plant foods ingested with minimal dietary fat enhance the total-body vitamin A pool size in Filipino schoolchildren as assessed by stable-isotope-dilution methodology. The American journal of clinical nutrition 85, 1041–9. https://doi.org/10.1093/ajcn/85.4.1041

Ribeiro R Q C, Alves L, 2014. Comparison of two school-based programmes for health behaviour change: the Belo Horizonte Heart Study randomized trial. Public Health Nutrition 17, 1195–1204. https://doi.org/10.1017/S1368980013000189

Richard S A, Zavaleta N, Caulfield L E, Black R E, Witzig R S, Shankar A H, 2006. Zinc and iron supplementation and malaria, diarrhea, and respiratory infections in children in the Peruvian Amazon. American Journal of Tropical Medicine and Hygiene 75, 126–132. https://doi.org/10.4269/ajtmh.2006.75.1.0750126

Rich-Edwards Janet W, Ganmaa Davaasambuu, Kleinman Ken, Sumberzul Namjav, Holick Michael F, Lkhagvasuren Tserenkhuu, Dulguun Batbaatar, Burke Anne, Frazier A Lindsay, 2011. Randomized trial of fortified milk and supplements to raise 25-hydroxyvitamin D concentrations in schoolchildren in Mongolia1,2. American Journal of Clinical Nutrition 94, 578–584. https://doi.org/10.3945/ajcn.110.008771

Rifa'i A, Samir S, 2019. Impact of new seed varieties programme on the welfare of rice farmers in Indonesia: A propensity score matching approach. Journal of Agricultural Extension 23, 144–156. https://doi.org/10.4314/jae.v23i4.16

Rita Wegmüller, 2018. Effectiveness Study During the First 1,000 Days in Kenya. https://clinicaltrials.gov/show/NCT03558464.

Rivas M, McArthur T, Mullally C, 2020. All They're Cracked Up to Be?: The Impact of Chicken Transfers in Guatemala.

Rivera J A, Gonzalez-Cossio T, Flores M, Romero M, Rivera M, Tellez-Rojo M M, Rosado J L, Brown K H, 2001. Multiple micronutrient supplementation increases the growth of Mexican infants. American Journal of Clinical Nutrition 74, 657–663. https://doi.org/10.1093/ajcn/74.5.657

Rivera J A, Habicht J, 2002. Effect of supplementary feeding on the prevention of mild-to-moderate wasting in conditions of endemic malnutrition in Guatemala. Bulletin of the World Health Organization 80, 926–932.

Rivera J A, Sotres-Alvarez D, Habicht J P, Shamah T, Villalpando S, 2004. Impact of the Mexican Program for Education, Health, and Nutrition (Progresa) on Rates of Growth and Anemia in Infants and Young Children: A Randomized Effectiveness Study. JAMA: Journal of the American Medical Association 291, 2563–2570. https://doi.org/10.1001/jama.291.21.2563

Rivera Juan A, Shamah Teresa, Villalpando Salvador, Monterrubio Eric, 2010. Effectiveness of a large-scale iron-fortified milk distribution program on anemia and iron deficiency in low-income young children in Mexico. American Journal of Clinical Nutrition 91, 431–439. https://doi.org/10.3945/ajcn.2009.28104

Riyanto A, Murwani R, Sulistiyani, Rahfiludin M Z, Megasari M, 2018. Food preparation safety education of street food vendors around public elementary schools to improve bacteriological and chemical food safety. Southeast Asian Journal of Tropical Medicine and Public Health 49, 314–321.

Roberfroid D, Huybregts L, Lanou H, Ouedraogo L, Henry M C, Meda N, Kolsteren P, 2012. Impact of prenatal multiple micronutrients on survival and growth during infancy: a randomized controlled trial. American Journal of Clinical Nutrition 95, 916–24.

Roberto Borlini, Kalle Hirvonen, Kaleab Baye, Woinshet Tizazu Abate, 2018. Impact Evaluation of WFP's Fresh Food Voucher Pilot Programme in Ethiopia. https://clinicaltrials.gov/show/NCT03590717.

Roberts Susan B, Franceschini Maria Angela, Krauss Amy, Lin Pei-Yi, de Sa Augusto Braima, Co Raimundo, Taylor Salima, Brown Carrie, Chen Oliver, Johnson Elizabeth J, Pruzensky William, Schlossman Nina, Bale Carlito, Wu Kuan-Cheng Tony, Hagan Katherine, Saltzman Edward, Muentener Paul, 2017. A pilot randomized controlled trial of a new supplementary food designed to enhance cognitive performance during prevention and treatment of malnutrition in childhood. Current Developments in Nutrition 1. https://doi.org/10.3945/cdn.117.000885

Rocha Jozimo Santos, 2017. Agricultural extension, technology adoption and household food security: evidence from DRC. Agricultural extension, technology adoption and household food security: evidence from DRC. Wageningen University, Netherlands.

Rockers P C, Fink G, Zanolini A, Banda B, Biemba G, Sullivan C, Mutembo S, Silavwe V, Hamer D H, 2016. Impact of a community-based package of interventions on child development in Zambia: a cluster-randomised controlled trial. BMJ Global Health 1, e000104. https://doi.org/10.1136/bmjgh-2016-000104

Rodriguez Divina Gracia P, Rejesus Roderick M, Aragon Corazon T, 2007. Impacts of an Agricultural Development Program for Poor Coconut Producers in the Philippines: An Approach Using Panel Data and Propensity Score Matching Techniques. Journal of Agricultural and Resource Economics 32, 534–557. https://doi.org/10.22004/ag.econ.7081

Rohner F, Zimmermann M B, Amon R J, Vounatsou P, Tschannen A B, N'Goran E K, Nindjin C, Cacou M C, Te-Bonle M D, Aka H, Sess D E, Utzinger J, Hurrell R F, 2010. In a randomized controlled trial of iron fortification, anthelmintic treatment, and intermittent preventive treatment of malaria for anemia control in Ivorian children, only anthelmintic treatment shows modest benefit. Journal of Nutrition 140, 635–641. https://doi.org/10.3945/jn.109.114256

Romagnoli F, Molina J, Parrado A, 2018. How to improve smallholder market access: evaluation of mercados campesinos in Colombia. Agronomía Colombiana 36, 79–87. https://doi.org/10.15446/agron.colomb.v36n1.67970

Romana D L, Ruz M, Pizarro F, Landeta L, Olivares M A, 2008. Supplementation with zinc between meals has no effect on subsequent iron absorption or on iron status of Chilean women. Nutrition 24, 957–63. https://doi.org/10.1016/j.nut.2008.04.007

Romaña Daniel López De, Verona Sara, Vivanco Oscar Aquino, Gross Rainer, 2006. Protective Effect Of Multimicronutrient Supplementation Against Anemia Among Children, Women, And Adolescent Girls In Lower-Income Areas Of Chiclayo, Peru. Food and Nutrition Bulletin 27, s143–s150. https://doi.org/10.1177/15648265060274S405

Roothaert R L, Afari-Sefa V, Schreinemachers P, 2020. Household gardening with traditional African vegetables to improve diets of children and young women in East Africa. Acta Horticulturae 1267, 13–19. https://doi.org/10.17660/ActaHortic.2020.1267.3

Rosado J L, Caamano M C, Montoya Y A, Solano M de L, Santos J I, Long K Z, 2009. Interaction of zinc or vitamin A supplementation and specific parasite infections on Mexican infants' growth: a randomized clinical trial. European Journal of Clinical Nutrition 63, 1176–1184. https://doi.org/10.1038/ejcn.2009.53

Rosado Jorge L, Lopez Patricia, Kordas Katarzyna, Garcıa-Vargas Gonzalo, Ronquillo Dolores, Alatorre Javier, Stoltzfus Rebecca J, 2006. Iron and/or zinc supplementation did not reduce blood lead concentrations in children in a randomized, placebo-controlled trial. Journal of Nutrition.

Rosales F J, Kang Y, Pfeiffer B, Rau A, Romero-Abal M E, Erhardt J G, Solomons N W, Biesalski H K, 2004. Twice the recommended daily allowance of iron is associated with an increase in plasma alpha -1 antichymotrypsin concentrations in Guatemalan school-aged children. Nutrition Research 24, 875–887. https://doi.org/10.1016/j.nutres.2004.06.008

Roschnik Natalie, Diarra Hawa, Dicko Yahia, Diarra Seybou, Stanley Isobel, Moestue Helen, McClean Judy, Verhoef Hans, Clarke Sian E, 2019. Adherence and acceptability of community-based distribution of micronutrient powders in Southern Mali. Maternal and Child Nutrition 15, e12831–e12831. https://doi.org/10.1111/mcn.12831

Roschnik Natalie, Parawan Amado, Baylon Melba Andrea B, Chua Teresita, Hall Andrew, 2004. Weekly iron supplements given by teachers sustain the haemoglobin concentration of schoolchildren in the Philippines. Tropical Medicine and International Health 9, 904–909. https://doi.org/10.1111/j.1365-3156.2004.01279.x

Rosenberg Adam M, Maluccio John A, Harris Jody, Mwanamwenge Marjolein, Nguyen Phuong H, Tembo Gelson, Rawat Rahul, 2018. Nutrition-sensitive agricultural interventions, agricultural diversity, food

access and child dietary diversity: Evidence from rural Zambia. Food Policy 80, 10–23. https://doi.org/10.1016/j.foodpol.2018.07.008
Rosmawati Nik, Manan Wan, Izani Noor, Nurain Nik, Razlina A, 2017. Impact of Food Nutrition Intervention on food handlers' knowledge and competitive food serving: a randomized controlled trial. International Food Research Journal 24, 1046–1056.
Roth D E, Morris S K, Zlotkin S, Gernand A D, Ahmed T, Shanta S S, Papp E, Korsiak J, Shi J, Islam M M, 2018. Vitamin D Supplementation in Pregnancy and Lactation and Infant Growth. The New England Journal of Medicine 379, 535–546. https://doi.org/10.1056/NEJMoa1800927
Roth Daniel E, Perumal Nandita, Al-Mahmud Abdullah, Baqui Abdullah H, 2013. Maternal vitamin D3 supplementation during the third trimester of pregnancy: effects on infant growth in a longitudinal follow-up study in Bangladesh. Journal of Pediatrics 163, 1605–1611. https://doi.org/10.1016/j.jpeds.2013.07.030
Rotondi Valentina, Bonan Jacopo, Pareglio Stefano, 2015. Extension Services, Production and Welfare: Evidence from a Field Experiment in Ethiopia.
Roy S K, Jolly S P, Shafique S, Fuchs G J, Mahmud Z, Chakraborty B, Roy S, 2007. Prevention of malnutrition among young children in rural Bangladesh by a food-health-care educational intervention: a randomized, controlled trial. Food and nutrition bulletin 28, 375–83. https://doi.org/10.1177/156482650702800401
Roy Shalini, Ara Jinnat, Das Narayan, Quisumbing Agnes R, 2015. Flypaper Effects in Transfers Targeted to Women: Evidence from BRAC's "Targeting the Ultra Poor" Program in Bangladesh. Journal of Development Economics 117, 1–19. https://doi.org/10.1016/j.jdeveco.2015.06.004
Rozo S, Gonzalez V, Morales C, Soares Y, 2015. Creating Opportunities For Rural Producers: Impact Evaluation Of A Pilot Program In Colombia. Journal of Drug Policy Analysis 8, 1–35. https://doi.org/10.1515/jdpa-2014-0003
Ruel M T, Menon P, Habicht J P, Loechl C, Bergeron G, Pelto G, Arimond M, Maluccio J, Michaud L, Hankebo B, 2008. Age-based preventive targeting of food assistance and behaviour change and communication for reduction of childhood undernutrition in Haiti: A cluster randomised trial. The Lancet 371, 588–595. https://doi.org/10.1016/S0140-6736%2808%2960271-8
Ruel Marie, Kumar Neha, 2019. TARGETING AND REALIGNING AGRICULTURE FOR IMPROVED NUTRITION (TRAIN). IFPRI.
Ruiz Arranz M, Davis D, Handa S, Stampini M, 2006. Program Conditionality And Food Security: The Impact Of PROGRESA And PROCAMPO Transfers In Rural Mexico. Revista EconomiA 7, 249–278.
Rusike J, Mahungu N M, Lukombo S S, Kendenga T, Bidiaka S M, Alene A, Lema A, Manyong V M, 2014. Does a Cassava Research-for-Development Program Have Impact at the Farm Level? Evidence from the Democratic Republic of Congo. Food Policy 46, 193–204. https://doi.org/10.1016/j.foodpol.2014.03.012
Rutherford Diana Duff, Burke Holly M, Cheung Kelly K, Field Samuel H, 2016. Impact of an Agricultural Value Chain Project on Smallholder Farmers, Households, and Children in Liberia. World Development 83, 70–83. https://doi.org/10.1016/j.worlddev.2016.03.004
Ryckman Theresa, Robinson Margaret, Pedersen Courtney, Bhattacharya Jay, Bendavid Eran, 2019. Impact of Feed the Future initiative on nutrition in children aged less than 5 years in sub-Saharan Africa: difference-in-differences analysis. BMJ 367, l6540. https://doi.org/10.1136/bmj.l6540
Saaka M, Oosthuizen J, Beatty S, 2009. Effect of prenatal zinc supplementation on birthweight. Journal of Health, Population and Nutrition 27, 619–631. https://doi.org/10.3329/jhpn.v27i5.3638
Sabet Z, Ghazi A A, Tohidi M, Oladi B, 2012. Vitamin D Supplementation in Pregnant Iranian Women: Effects on Maternal and Neonatal Vitamin D and Parathyroid Hormone Status. Acta Endocrinologica-bucharest 8, 59–66. https://doi.org/10.4183/AEB.2012.59
Sachithananthan Vedavalli, Buzgeia Mohammed, Awad Fadwa, Omran Rema, Faraj Amna, 2012. Impact of nutrition education on the nutritional status. Nutrition & Food Science 42, 173–180. https://doi.org/10.1108/00346651211228469
Saenger C, Torero M, Qaim M, 2016. Impact of third-party enforcement of contracts in agricultural markets—A field experiment in Vietnam 31. https://doi.org/10.2499/9780896292130_11
Safdie M, Jennings-Aburto N, Lévesque L, Janssen I, Campirano-Núñez F, López-Olmedo N, Aburto T, Rivera J A, 2013. Impact of a school-based intervention program on obesity risk factors in Mexican children. Salud publica de Mexico 55, 374–87. https://doi.org/10.21149/spm.v55s3.5138
Saha Soma, Goswami Ravinder, Ramakrishnan Lakshmy, Vishnubhatla Sreenivas, Mahtab Samrina, Kar Parmita, Srinivasan Sunita, Singh Namrata, Singh Upinderpal, 2018. Vitamin D and calcium supplementation, skeletal muscle strength and serum testosterone in young healthy adult males: randomized control trial. Clinical Endocrinology (Oxford) 88, 217–226. https://doi.org/10.1111/cen.13507
Sahu M, Das V, Aggarwal A, Rawat V, Saxena P, Bhatia V, 2009. Vitamin D replacement in pregnant women in rural north India: a pilot study. European Journal of Clinical Nutrition 63, 1157–1159. https://doi.org/10.1038/ejcn.2009.27
Sakha K, Behbahan A G, 2008. Training for perfect breastfeeding or metoclopramide: Which one can promote lactation in nursing mothers? Breastfeeding Medicine 3, 120–123. https://doi.org/10.1089/bfm.2007.0020
Salah E M, Khalifa A G, Metwally A M, Hamid N A, Hussien H A, Moneer Z M, 2012. The impact of school snacks on cognitive function of primary school children in Egypt. Journal of Applied Sciences Research 8, 5639–5650.
Salazar L, Fahsbender J, Kim N, 2018. Livestock transfers, food security and women's empowerment: evidence from a randomized phased-in program in Nicaragua, IDB Working Paper Series - Inter-American Development Bank. Inter-American Development Bank, Washington; USA. https://doi.org/10.18235/0001447

Salazar Lina, Aramburu Julián, González-Flores Mario, Winters Paul, 2016. Sowing for food security: A case study of smallholder farmers in Bolivia. Food Policy 65, 32–52. https://doi.org/10.1016/j.foodpol.2016.10.003

Saleem Ali Faisal, Mahmud Sadia, Baig-Ansari Naila, Zaidi Anita K M, 2014. Impact of maternal education about complementary feeding on their infants' nutritional outcomes in low- and middle-income households: a community-based randomized interventional study in Karachi, Pakistan. Journal of health, population, and nutrition 32, 623–33.

Salehi L, Mohammad K, Montazeri A, 2011. Fruit and vegetables intake among elderly Iranians: a theory-based interventional study using the Five-A-Day program. Nutrition Journal 10. https://doi.org/10.1186/1475-2891-10-123

Salgado Michelainel D, Mardones Maria Angelica H, Ivanovic Daniza M, 2005. Impact of a short nutrition education program on food and nutrition knowledge of school-age children graduating from elementary school: a follow-up study 1995-2000, Chillán, Chile. Ecology of Food and Nutrition 44, 57–79. https://doi.org/10.1080/03670240590904344

Saljughi Farokh, Esfahani Mitra Savabi, Kohan Shahnaz, Ehsanpour Soheila, 2016. Promoting breastfeeding self-efficacy through role-playing in pregnant women. International Journal of Pediatrics 4, 2061–2068. https://doi.org/10.22038/IJP.2016.7000

Samadpour K, Long K Z, Hayatbakhsh R, Marks G C, 2011. Randomised comparison of the effects of Sprinkles and Foodlets with the currently recommended supplement (Drops) on micronutrient status and growth in Iranian children. European Journal of Clinical Nutrition 65, 1287–1294. https://doi.org/10.1038/ejcn.2011.124

Samson K L. I, Loh S P, Khor G L, Shariff Z M, Yelland L N, Leemaqz S, Makrides M, Hutcheon J A, Sulistyoningrum D C, Yu J J, Roche M L, De-Regil L M, Green T J, Karakochuk C D, 2020. Effect of once weekly folic acid supplementation on erythrocyte folate concentrations in women to determine potential to prevent neural tube defects: A randomised controlled dose-finding trial in Malaysia. BMJ Open 10. https://doi.org/10.1136/bmjopen-2019-034598

Samuel A, Brouwer I D, Feskens E J M, Abdulaziz A, Kebede A, De-Regil L M, Osendarp S J M, 2018. Effectiveness of a program intervention with reduced-iron multiple micronutrient powders on iron status, morbidity and growth in young children in Ethiopia. Nutrients 10, 1508. https://doi.org/10.3390/nu10101508

Sanglestsawai Santi, Rejesus Roderick M, Yorobe Jr Jose M, 2015. Economic impacts of integrated pest management (IPM) farmer field schools (FFS): Evidence from onion farmers in the Philippines. Agricultural Economics 46, 149–162. https://doi.org/10.1111/agec.12147

Santos Ina S, Matijasevich Alicia, Assuncao Maria Cecilia F, Valle Neiva C.J, Horta Bernardo L, Goncalves Helen D, Gigante Denise P, Martines Jose C, Pelto Gretel, Victora Cesar G, 2015. Promotion of Weight Gain in Early Childhood Does Not Increase Metabolic Risk in Adolescents: A 15-Year Follow-Up of a Cluster-Randomized Controlled Trial. The Journal of nutrition 145, 2749–55. https://doi.org/10.3945/jn.115.212134

Sapbamrer Ratana, Visavarungroj Nuwat, Suttajit Maitree, 2013. Effects of dietary traditional fermented soybean on reproductive hormones, lipids, and glucose among postmenopausal women in northern Thailand. Asia Pacific Journal of Clinical Nutrition 22, 222–228. https://doi.org/10.6133/apjcn.2013.22.2.17

Sari C, Altay N, 2020. Effects of providing nursing care with web-based program on maternal self-efficacy and infant health. Public Health Nursing 37, 380–392. https://doi.org/10.1111/phn.12712

Sari M, Bloem M W, de Pee, S, Schultink W J, Sastroamidjojo S, 2001. Effect of iron-fortified candies on the iron status of children aged 4-6 y in East Jakarta, Indonesia. American Journal of Clinical Nutrition 73, 1034–1039.

Sarma K R, Udaykumar P, Balakrishna N, Vijayaraghavan K, Sivakumar B, 2006. Effect of micronutrient supplementation on health and nutritional status of schoolchildren: growth and morbidity. Nutrition 22, S8–S14. https://doi.org/10.1016/j.nut.2005.07.011

Sartorelli D S, Sciarra E C, Franco L J, Cardoso M A, 2005. Beneficial effects of short-term nutritional counselling at the primary health-care level among Brazilian adults. Public Health Nutrition 8, 820–825. https://doi.org/10.1079/PHN2005737

Saville Naomi M, Shrestha Bhim P, Style Sarah, Harris-Fry Helen, Beard B James, Sen Aman, Jha Sonali, Rai Anjana, Paudel Vikas, Sah Raghbendra, Paudel Puskar, Copas Andrew, Bhandari Bishnu, Neupane Rishi, Morrison Joanna, Gram Lu, Pulkki-Brannstrom Anni-Maria, Skordis-Worrall Jolene, Basnet Machhindra, Pee Saskia de, Hall Andrew, Harthan Jayne, Thondoo Meelan, Klingberg Sonja, Messick Janice, Manandhar Dharma S, Osrin David, Costello Anthony, 2018. Impact on birth weight and child growth of Participatory Learning and Action women's groups with and without transfers of food or cash during pregnancy: findings of the low birth weight South Asia cluster-randomised controlled trial (LBWSAT) in Nepal. PLoS ONE 13, e0194064. https://doi.org/10.1371/journal.pone.0194064

Savitri Ary I, Idris Nikmah S, Indawati Wahyuni, Saldi Siti Rizny F, Amelia Dwirani, Baharuddin Mohammad, Sastroasmoro Sudigdo, Grobbee Diederick E, Uiterwaal Cuno S P M, 2016. BReastfeeding Attitude and Volume Optimization (BRAVO) trial: study protocol for a randomized controlled trial. Trials 17. https://doi.org/10.1186/s13063-016-1397-y

Savy M, Fortin S, Kameli Y, Renault S, Couderc C, Gamli A, Amouzou K, Perenze M L, Martin-Prevel Y, 2020. Impact of a food voucher program in alleviating household food insecurity in two cities in Senegal during a food price crisis. Food Security 12, 465–478. https://doi.org/10.1007/s12571-019-00996-x

Sayyad-Neerkorn Jessica, Langendorf Céline, Roederer Thomas, Doyon Stéphane, Mamaty Abdoul-Aziz, Woi-Messe Lynda, Manzo Mahamane L, Harouna Souley, de Pee Saskia, Grais Rebecca F, 2015. Preventive

Effects Of Long-Term Supplementation With 2 Nutritious Food Supplements In Young Children In Niger. Journal of Nutrition 145, 2596–2603. https://doi.org/10.3945/jn.115.213157

Sazawal S, Dhingra U, Pratibha Dhingra, Hiremath G, Archana Sarkar, Dutta A, Menon V P, Black R E, 2010. Micronutrient fortified milk improves iron status, anemia and growth among children 1-4 years: a double masked, randomized, controlled trial. PLoS ONE e12167. https://doi.org/10.1371/journal.pone.0012167

Sazawal S, Habib A K M A, Dhingra U, Dutta A, Dhingra P, Sarkar A, Deb S, Alam J, Husna A, Black R E, 2013. Impact of micronutrient fortification of yoghurt on micronutrient status markers and growth - a randomized double blind controlled trial among school children in Bangladesh. BMC public health 13. https://doi.org/10.1186/1471-2458-13-514

Sazawal Sunil, Dhingra Usha, Dhingra Pratibha, Dutta Arup, Deb Saikat, Kumar Jitendra, Devi Prabhabati, Prakash Ashish, 2018. Efficacy of high zinc biofortified wheat in improvement of micronutrient status, and prevention of morbidity among preschool children and women - A double masked, randomized, controlled trial 11 Medical and Health Sciences 1117 Public Health and Health Services. Nutrition journal 17. https://doi.org/10.1186/s12937-018-0391-5

Schlossman N, Brown C, Batra P, Sa A B. de, Balan I, Balan A, Gamache M G, Wood L, Pruzensky W, Saltzman E, Roberts S B, Bale C, 2017. A randomized controlled trial of two ready-to-use supplementary foods demonstrates benefit of the higher dairy supplement for reduced wasting in mothers, and differential impact in infants and children associated with maternal supplement response. Food and Nutrition Bulletin 38, 275–290. https://doi.org/10.1177/0379572117700754

Schlossman Nina, Balan Adrian, 2015. Canned Herring for Prevention of Childhood Malnutrition During the Early Rainy Season in Rural Guinea-Bissau.

Schmidt Emily, Tadesse Fanaye, 2012. Household And Plot Level Impact Of Sustainable Land And Watershed Management (SLWM) Practices In The Blue Nile. ESSP II Working Paper 42, 1–26.

Schmidt M K, Muslimatun S, West C E, Schultink W, Hautvast J G A J, 2004. Mental and psychomotor development in Indonesian infants of mothers supplemented with vitamin A in addition to iron during pregnancy. British Journal of Nutrition 91, 279–285. https://doi.org/10.1079/BJN20031043

Schöll Kerstin, Markemann André, Megersa Bekele, Birner Regina, Zárate Anne Valle, 2016. Impact of projects initiating group marketing of smallholder farmers—A case study of pig producer marketing groups in Vietnam. Journal of co-operative organization and management 4, 31–41. https://doi.org/10.1016/j.jcom.2016.03.002

Schram Ashley, Labonte Ronald, Baker Phillip, Friel Sharon, Reeves Aaron, Stuckler David, 2015. The role of trade and investment liberalization in the sugar-sweetened carbonated beverages market: a natural experiment contrasting Vietnam and the Philippines. Globalization and health 11, 41. https://doi.org/10.1186/s12992-015-0127-7

Schreinemachers P, Bhattarai D R, Subedi G D, Acharya T P, Chen HsiaoPu, Yang RayYu, Kashichhawa N K, Dhungana U, Luther G C, Mecozzi M, 2017. Impact of school gardens in Nepal: a cluster randomised controlled trial. Journal of Development Effectiveness 9, 329–343. https://doi.org/10.1080/19439342.2017.1311356

Schreinemachers P, Ouedraogo M S, Diagbouga S, Thiombiano A, Kouame S R, Sobgui C M, Chen H P, Yang R Y, 2019. Impact of school gardens and complementary nutrition education in Burkina Faso. Journal of Development Effectiveness 11, 132–145. https://doi.org/10.1080/19439342.2019.1624595

Schreinemachers Pepijn, Patalagsa Marie Antoinette, Nasir Uddin, 2016a. Impact and cost-effectiveness of women's training in home gardening and nutrition in Bangladesh. Journal of Development Effectiveness 8, 473–488. https://doi.org/10.1080/19439342.2016.1231704

Schreinemachers Pepijn, Rai Bal Bdr, Dorji Desang, Chen Hsiao-pu, Dukpa Thinley, Thinley Namgay, Sherpa Passang Lhamo, Yang Ray-Yu, 2017. School gardening in Bhutan: Evaluating outcomes and impact. Food Security 9, 635–648. https://doi.org/10.1007/s12571-017-0673-3

Schreinemachers Pepijn, Wu Mei-huey, Uddin Md Nasir, Ahmad Shahabuddin, Hanson Peter, 2016b. Farmer training in off-season vegetables: Effects on income and pesticide use in Bangladesh. Food policy 61, 132–140. https://doi.org/10.1016/j.foodpol.2016.03.002

Schroeder D G, Pachon H, Dearden K A, Ha Tran Thu, Lang Tran Thi, Marsh D R, 2002. An integrated child nutrition intervention improved growth of younger, more malnourished children in northern Vietnam. Food and Nutrition Bulletin 23, 50–58. https://doi.org/10.1177/15648265020234S108

Schuh D S, Goulart M R, Barbiero S M, D'Azevedo Sica, C, Borges R, Moraes D W, Pellanda L C, 2017. Healthy school, happy school: Design and protocol for a randomized clinical trial designed to prevent weight gain in children. Arquivos Brasileiros de Cardiologia 108, 501–507. https://doi.org/10.5935/abc.20170072

Schulze Kerry J, Mehra Sucheta, Shaikh Saijuddin, Ali Hasmot, Shamim Abu Ahmed, Wu Lee S-F, Mitra Maithilee, Arguello Margia A, Kmush Brittany, Sungpuag Pongtorn, Udomkesmelee Emorn, Merrill Rebecca, Klemm Rolf DW, Ullah Barkat, Labrique Alain B, West Keith P Jr, Christian Parul, 2019. Antenatal multiple micronutrient supplementation compared to iron-folic acid affects micronutrient status but does not eliminate deficiencies in a randomized controlled trial among pregnant women of rural Bangladesh. Journal of Nutrition 149, 1260–1270. https://doi.org/10.1093/jn/nxz046

Schumann K, Longfils P, Monchy D, von Xylander S, Weinheimer H, Solomons N W, 2009. Efficacy and safety of twice-weekly administration of three RDAs of iron and folic acid with and without complement of 14 essential micronutrients at one or two RDAs: a placebo-controlled intervention trial in anemic Cambodian infants 6 to 24 months of age. European Journal of Clinical Nutrition 63, 355–368. https://doi.org/10.1038/sj.ejcn.1602930

Schümann K, Romero-Abal M E, Mäurer A, Luck T, Beard J, Murray-Kolb L, Bulux J, Mena I, Solomons N W, 2005. Haematological response to haem iron or ferrous sulphate mixed with refried black beans in moderately anaemic Guatemalan pre-school children. Public Health Nutrition 8, 572–581.

Schwab B, 2020. In the Form of Bread? A Randomized Comparison of Cash and Food Transfers in Yemen. American Journal of Agricultural Economics 102, 91–113. https://doi.org/10.1093/ajae/aaz048

Schwab B, 2019. Comparing the Productive Effects of Cash and Food Transfers in a Crisis Setting: Evidence from a randomized experiment in Yemen. The Journal of Development Studies 55, 29–54. https://doi.org/10.1080/00220388.2019.1687880

Schwab B, 2018. Comparing the productive effects of cash and food transfers in a crisis setting: evidence from a randomised experiment in Yemen. UNICEF Innocenti Working Paper 55, 29–54. https://doi.org/10.1080/00220388.2019.1687880

Scott Samuel P, Murray-Kolb Laura E, Wenger Michael J, Udipi Shobha A, Ghugre Padmini S, Boy Erick, Haas Jere D, 2018. Cognitive Performance in Indian School-Going Adolescents Is Positively Affected by Consumption of Iron-Biofortified Pearl Millet: A 6-Month Randomized Controlled Efficacy Trial. Journal of Nutrition 148, 1462–1471. https://doi.org/10.1093/jn/nxy113

Seal A, Kafwembe E, Kassim I A. R, Hong M, Wesley A, Wood J, Abdalla F, van den Briel, T, Seal Andrew, Kafwembe Emmanuel, Kassim Ismail A. R, Hong Mei, Wesley Annie, Wood John, Abdalla Fathia, van den Briel, Tina, 2008. Maize meal fortification is associated with improved vitamin A and iron status in adolescents and reduced childhood anaemia in a food aid-dependent refugee population. Public Health Nutrition 11, 720–728.

Sebayang S K, Dibley M J, Kelly P, Shankar A V, Shankar A H, 2011. Modifying effect of maternal nutritional status on the impact of maternal multiple micronutrient supplementation on birthweight in Indonesia. European Journal of Clinical Nutrition 65, 1110–1117. https://doi.org/10.1038/ejcn.2011.97

Seetha Anitha, Tsusaka Takuji W, Munthali Timalizge W, Musukwa Maggie, Mwangwela Agnes, Kalumikiza Zione, Manani Tinna, Kachulu Lizzie, Kumwenda Nelson, Musoke Mike, Okori Patrick, 2018. How immediate and significant is the outcome of training on diversified diets, hygiene and food safety? An effort to mitigate child undernutrition in rural Malawi. Public health nutrition 21, 1156–1166. https://doi.org/10.1017/S1368980017003652

Sekartini R, Wiguna T, Bardosono S, Novita D, Arsianti T, Calame W, Schaafsma A, 2013. The effect of lactose-isomaltulose-containing growing-up milks on cognitive performance of Indonesian children: a cross-over study. British Journal of Nutrition 110, 1089-1097. https://doi.org/10.1017/S0007114513000135

Sellamuttu Sonali Senaratna, Aida Takeshi, Kasahara Ryuji, Sawada Yasuyuki, Wijerathna Deeptha, 2013. How Access to Irrigation Influences Poverty and Livelihoods: A Case Study from Sri Lanka (No. 00220388), Journal of Development Studies. JICA Research institute. https://doi.org/10.1080/00220388.2013.841887

Semba R D, Munasir Z, Akib A, Melikian G, Permaesih D, Muherdiyantiningsih D, Marituti S, Muhilal S, 2001. Integration of vitamin A supplementation with the Expanded Programme on Immunization: lack of impact on morbidity or infant growth. Acta Paediatrica 90, 1107–1111. https://doi.org/10.1111/j.1651-2227.2001.tb03237.x

Senarath Upul, Katulanda Prasad, Fernando Dulitha N, Kalupahana Nishan S, Partheepan Kunarathinam, Jayawardena Ranil, Katulanda Gaya, Dibley Michael J, 2019. mHealth nutrition and lifestyle intervention (mHENAL) to reduce cardiovascular disease risk in a middle-aged, overweight and obese population in Sri Lanka: study protocol for a randomized controlled trial. Contemporary clinical trials communications 16. https://doi.org/10.1016/j.conctc.2019.100453

Sethi Vani, Bhanot Arti, Bhattacharjee Sourav, Gope Rajkumar, Sarangi Debjeet, Nath Vikash, Nair Nirmala, Singh Usha, Daniel Abner, Parhi Rabi N, Sinha Sonali, Loomba Avinash, S Somya, Purty Apollo, Ali Naushad, Mohapatra Babita, Agarwal Neeraj, Bhatia Vikas, Ruikar Manisha, Sahu Bharati, R S Reshmi, Pedgaonkar Sarang, Dwivedi Laxmi Kant, Saiyed Farhat, Prajapati Mahendra, Mishra Preetu, Prost Audrey, Kejrewal Nita, Wagt Arjan De, Sachdev Harshpal, Unisa Sayeed, 2019. Integrated multisectoral strategy to improve girls' and women's nutrition before conception, during pregnancy and after birth in India (Swabhimaan): protocol for a prospective, non-randomised controlled evaluation. BMJ open 9. https://doi.org/10.1136/bmjopen-2019-031632

Sevinc O, Bozkurt A I, Gundogdu M, Bas Aslan U, Agbuga B, Aslan S, Dikbas E, Gokce Z, 2011. Evaluation of the effectiveness of an intervention program on preventing childhood obesity in Denizli, Turkey. Turkish Journal of Medical Sciences 41, 1097–1105. https://doi.org/10.3906/sag-1009-1179

Seyedhamzeh Shirin, Nedjat Saharnaz, Hosseini Hedayat, Shakibazedeh Elham, Viera Anthony J, Motlagh Ahmadreza Dorosty, 2020. Potential effect of different nutritional labels on food choices among mothers: a study protocol. BMC public health 20, 294. https://doi.org/10.1186/s12889-020-8411-8

Sgambato M R, Cunha D B, Henriques V T, Estima C C P, Souza B S N, Pereira R A, Yokoo E M, Paravidino V B, Sichieri R, 2016. PAAPPAS community trial protocol: a randomized study of obesity prevention for adolescents combining school with household intervention. BMC Public Health 16. https://doi.org/10.1186/s12889-016-3473-3

Shafiei Leili, Taymoori Parvaneh, Maleki Afshin, Sayehmiri Kourosh, 2018. Environmental interventions based on the Health Belief Model and the Ecological-social model in the continuation of consumption of rice, free from toxic metals. Electronic Physician 10, 6153–6163. https://doi.org/10.19082/6153

Shah Binay Kumar, Gupta Piyush, 2002. Weekly vs Daily Iron and Folic Acid Supplementation in Adolescent Nepalese Girls. Archives of Pediatrics and Adolescent Medicine 156, 131–135. https://doi.org/10.1001/archpedi.156.2.131

Shahab-Ferdows S, Anaya-Loyola M A, Vergara-Castaneda H, Rosado J L, Keyes W R, Newman J W, Miller J W, Allen L H, 2012. Vitamin B-12 supplementation of rural Mexican women changes biochemical vitamin

B-12 status indicators but does not affect hematology or a bone turnover marker. Journal of Nutrition 142, 1881–1887. https://doi.org/10.3945/jn.112.165712

Shaheen R, Streatfield P K, Naved R T, Lindholm L, Persson L A, 2014. Equity in adherence to and effect of prenatal food and micronutrient supplementation on child mortality: results from the MINIMat randomized trial, Bangladesh. BMC public health 14, 9. https://doi.org/10.1186/1471-2458-14-5

Shahril Mohd Razif, Wan Dali, Wan Putri Elena, Lua Pei Lin, 2013. A 10-Week Multimodal Nutrition Education Intervention Improves Dietary Intake among University Students: Cluster Randomised Controlled Trial. Journal of nutrition and metabolism 2013, 658642. https://doi.org/10.1155/2013/658642

Shailes Neupane, Laurie Miller, 2019. Strategies to Increase Milk Consumption by Young Nepali Children. https://clinicaltrials.gov/show/NCT03886467.

Shalileh Maryam, Shidfar Farzad, Haghanib Hamid, Eghtesadia Shahriar, Heydari Iraj, 2010. The influence of calcium supplement on body composition, weight loss and insulin resistance in obese adults receiving low calorie diet. Journal of research in medical science 15, 191–201.

Shally Awasthi, Pande V K, Fletcher R H, 2000. Effectiveness and cost-effectiveness of albendazole in improving nutritional status of pre-school children in urban slums. Indian Pediatrics 37, 19–29.

Shapiro Jeremy, Haushofer Johannes, Sakwa Beatrice, Dyer Julian, 2016. A Panel Analysis Of The Impact Of Kickstart Irrigation Pumps In Kenya. 3ie.

Shariatjafari Shadab, Omidvar Nasrin, Shakibazadeh Elham, Majdzadeh Reza, Minaei Mina, Gholamzade Mahya, 2012. Effectiveness of Community-based Intervention to Promote Iran's Food-based Dietary Guidelines. International Journal of Preventive Medicine 3, 249–261.

Sharieff W, Bhutta Z, Schauer C, Tomlinson G, Zlotkin S, 2006a. Micronutrients (including zinc) reduce diarrhoea in children: the Pakistan Sprinkles Diarrhoea Study. Archives of Disease in Childhood 91, 573-579. https://doi.org/10.1136/adc.2005.086199

Sharieff W, Yin ShiAn, Wu M, Yang QingJun, Schauer C, Tomlinson G, Zlotkin S, 2006b. Short-term daily or weekly administration of micronutrient SprinklesTM has high compliance and does not cause iron overload in Chinese schoolchildren: a cluster-randomised trial. Public Health Nutrition 9, 336–344. https://doi.org/10.1079/PHN2006841

Sharieff Waseem, Dofonsou Joyce, Zlotkin Stanley, 2008. Is cooking food in iron pots an appropriate solution for the control of anaemia in developing countries? A randomised clinical trial in Benin. Public health nutrition 11, 971–7. https://doi.org/10.1017/S1368980007001139

Shariff M Z, Bukhari S S, Othman N, Hashim N, Ismail M, Jamil Z, Zalilah M S, Khairunniza B S, Maznah I, 2008. Nutrition education intervention improves nutrition knowledge, attitude and practices of primary school children: a pilot study. International Electronic Journal of Health Education 11, 119–132.

Sharifirad G R, Tol A, Mohebi S, Matlabi M, Shahnazi H, Shahsiah M, 2013. The effectiveness of nutrition education program based on health belief model compared with traditional training. Journal of Education and Health Promotion 2. https://doi.org/10.4103/2277-9531.112684

Sharma A K, Singh S, Meena S, Kannan A T, 2010. Impact of NGO run mid day meal program on nutrition status and growth of primary school children. The Indian Journal of Pediatrics 77, 763–769.

Sharma Rakesh, Peshin Rajinder, 2016. Impact of integrated pest management of vegetables on pesticide use in subtropical Jammu, India. Crop Protection 84, 105–112. https://doi.org/10.1016/j.cropro.2016.02.014

Shen Minxue, Hu Ming, Sun Zhenqiu, 2015. Assessment of School-Based Quasi-Experimental Nutrition and Food Safety Health Education for Primary School Students in Two Poverty-Stricken Counties of West China. PLoS ONE 10, 1–16. https://doi.org/10.1371/journal.pone.0145090

Shen Y, Cliffer I, Suri D, Vosti S, Webb P, Rogers B, 2017. Research methods used to determine cost-effectiveness of a supplementary feeding trial to prevent child undernutrition in Burkina Faso. Annals of nutrition & metabolism 71, 455-456. https://doi.org/10.1159/000480486

Sheng Xiaoyang, Tong Meiling, Zhao DongMei, Leung Ting Fan, Zhang Feng, Hays Nicholas P, Ge John, Ho Wing Man, Northington robert, Terry Donna L, Yao Manjiang, 2014. Randomized controlled trial to compare growth parameters and nutrient adequacy in children with picky eating behaviors who received nutritional counseling with or without an oral nutritional supplement. Nutrition and Metabolic Insights 7, 85–94. https://doi.org/10.4137/NMI.S15097

Sheng XiaoYang, Wang JunLi, Li Feng, Ouyang FengXiu, Ma JingQiu, 2019. Effects of dietary intervention on vitamin B12 status and cognitive level of 18-month-old toddlers in high-poverty areas: a cluster-randomized controlled trial. BMC Pediatrics 19. https://doi.org/10.1186/s12887-019-1716-z

Shet A S, Zwarenstein M, Rao A, Jebaraj P, Arumugam K, Mascarenhas M, Klar N, Galanti R M, 2017. The kap 2 study: preliminary results from a pragmatic cluster randomized trial of a community education intervention to support childhood anemia control in india. Blood 130. https://doi.org/10.1182/blood.V130.Suppl_1.3493.3493

Shi Yaojiang, Chang Fang, Su Xiaoqing, Luo Renfu, Zhang LinXiu, Rozelle Scott, 2012. Parental training, anemia and the impact on the nutrition of female students in China's poor rural elementary schools. China Agricultural Economic Review 4, 151–167. https://doi.org/10.1108/17561371211224746

Shikuku Kelvin Mashisia, Okello Julius Juma, Wambugu Stella, Sindi Kirimi, Low Jan W, McEwan Margaret, 2019a. Nutrition and food security impacts of quality seeds of biofortified orange-fleshed sweetpotato: Quasi-experimental evidence from Tanzania. World Development 124, 104646. https://doi.org/10.1016/j.worlddev.2019.104646

Shikuku Kelvin Mashisia, Pieters Janneke, Bulte Erwin, Laderach Peter, 2019b. Incentives and the Diffusion of Agricultural Knowledge: Experimental Evidence from Northern Uganda. American Journal of Agricultural Economics 101, 1164–80. https://doi.org/10.1093/ajae/aaz010

Shirazi M G, Kazemi A, Kelishadi R, Mostafavi F, 2019. The improvement of dietary behaviors among Iranian adolescent girls: a theory-based randomized controlled trial. Health Education Research 34, 159–172. https://doi.org/10.1093/her/cyz004

Shobeiri Fatemeh, Haghgoo Somaieh Moradi, Khodakarami Batool, Roshanaie Ghodratolla, 2019. Effect of group counseling on breastfeeding self-efficacy among nulliparous women attending to health centers in Hamadan, Iran. Journal of postgraduate medical institute 33, 130-134.

Shrestha Akina, Schindler Christian, Odermatt Peter, Gerold Jana, Erismann Severine, Sharma Subodh, Koju Rajendra, Utzinger Jurg, Cisse Gueladio, 2020. Nutritional and health status of children 15 months after integrated school garden, nutrition, and water, sanitation and hygiene interventions: a cluster-randomised controlled trial in Nepal. BMC public health 20, 158. https://doi.org/10.1186/s12889-019-8027-z

Sibiko Kenneth W, Qaim Matin, 2017. Weather Index Insurance, Agricultural Input Use, and Crop Productivity in Kenya. Food security 151–167. https://doi.org/10.1007/s12571-019-00987-y

Sichieri R, Yokoo E M, Pereira R A, Veiga G V, 2013. Water and sugar-sweetened beverage consumption and changes in BMI among Brazilian fourth graders after 1-year follow-up. Public Health Nutrition 16, 73–77. https://doi.org/10.1017/S1368980012001309

Sichieri Rosely, Moura Anibal S, Genelhu Virginia, Hu Frank, Willett Walter C, 2007. An 18-mo randomized trial of a low-glycemic-index diet and weight change in Brazilian women. The American journal of clinical nutrition 86, 707–713. https://doi.org/10.1093/ajcn/86.3.707

Siddiqua T J, Ahmad S M, Ahsan K B, Rashid M, Roy A, Rahman S M, Shahab-Ferdows S, Hampel D, Ahmed T, Allen L H, Raqib R, 2016. Vitamin B12 supplementation during pregnancy and postpartum improves B12 status of both mothers and infants but vaccine response in mothers only: a randomized clinical trial in Bangladesh. European Journal of Nutrition 55, 281–293. https://doi.org/10.1007/s00394-015-0845-x

Siega-Riz Anna M, Campo Yanire Estrada Del, Kinlaw Alan, Reinhart Gregory A, Allen Lindsay H, Shahab-Ferdows Setareh, Heck Jeff, Suchindran Chirayath M, Bentley Margaret E, 2014. Effect of supplementation with a lipid-based nutrient supplement on the micronutrient status of children aged 6-18 months living in the rural region of Intibuca, Honduras. Paediatric and perinatal epidemiology 28, 245–54. https://doi.org/10.1111/ppe.12117

Siegel E H, Kordas K, Stoltzfus R J, Katz J, Khatry S K, LeClerq S C, Tielsch J M, 2011. Inconsistent Effects of Iron-Folic Acid and/or Zinc Supplementation on the Cognitive Development of Infants. Journal of Health, Population and Nutrition (JHPN) 29, 593–604. https://doi.org/10.3329/jhpn.v29i6.9896

Siekmann J H, Allen L H, Bwibo N O, Demment M W, Murphy S P, Neumann C G, 2003. Kenyan school children have multiple micronutrient deficiencies, but increased plasma vitamin B-12 is the only detectable micronutrient response to meat or milk supplementation. Journal of Nutrition 133, 3972S-3980S. https://doi.org/10.1093/jn/133.11.3972S

Sikander Siham, Maselko Joanna, Zafar Shamsa, Haq Zaeem, Ahmad Ikhlaq, Ahmad Mansoor, Hafeez Assad, Rahman Atif, 2015. Cognitive-Behavioral Counseling for Exclusive Breastfeeding in Rural Pediatrics: A Cluster RCT. Pediatrics 135, e424–e431. https://doi.org/10.1542/peds.2014-1628

Silva Cristiano Francisco da, Nunes Leandro Meirelles, Schwartz Renata, Giugliani Elsa Regina Justo, 2016. Effect of a pro-breastfeeding intervention on the maintenance of breastfeeding for 2 years or more: randomized clinical trial with adolescent mothers and grandmothers. BMC Pregnancy and Childbirth 16.

Silva L L S, Augusto R A, Tietzmann D C, Sequeira L A S, Hadler M C C M, Muniz P T, de Lira P I C, Cardoso M A, 2017. The impact of home fortification with multiple micronutrient powder on vitamin A status in young children: a multicenter pragmatic controlled trial in Brazil. Maternal & child nutrition 13, 8. https://doi.org/10.1111/mcn.12403

Silvestri S, Macharia M, Uzayisenga B, 2019. Analysing the potential of plant clinics to boost crop protection in Rwanda through adoption of IPM: the case of maize and maize stem borers. Food Security 11, 301–315. https://doi.org/10.1007/s12571-019-00910-5

Simler Kenneth R, Jacobs Krista L, Mensah-Homiah Joseph, Randriamamonjy Josée, Wiesmann Doris, Abdul-Razak Abizari, 2005. Food-Based Approaches To Reducing Micronutrient Malnutrition: An Impact Evaluation Of The UNICEF ICBD Program In The Savelugu-Nanton District Of Northern Ghana, International Food Policy Research Institute (IFPRI) Discussion Paper Series. Completed.

Şimşek Gülsüm Kadıoğlu, Dizdar Evrim Alyamaç, Arayıcı Sema, Canpolat Fuat Emre, Sarı Fatma Nur, Uraş Nurdan, Oguz Serife Suna, 2019. Comparison of the Effect of Three Different Fortification Methods on Growth of Very Low Birth Weight Infants. Breastfeeding Medicine 14, 63–68. https://doi.org/10.1089/bfm.2018.0093

Singh Abhijeet, Park Albert, Dercon Stefan, 2014. School Meals As A Safety Net: An Evaluation Of The Midday Meal Scheme In India, Young Lives Working Paper Series. Completed. https://doi.org/10.1086/674097

Singh Akriti, Klemm Rolf D. W, Mundy Gary, Rana Pooja Pandey, Pun Bhim, Cunningham Kenda, 2018. Improving maternal, infant and young child nutrition in Nepal via peer mobilization. Public Health Nutrition 21, 796–806. https://doi.org/10.1017/S1368980017002993

Singh Prakarsh, 2017. Learning and behavioural spillovers of nutritional information. Journal of Development Studies 53, 911–931. https://doi.org/10.1080/00220388.2016.1208176

Singh Veena, Ahmed Saifuddin, Dreyfuss M L, Kiran Usha, Chaudhery D N, Srivastava V K, Ahuja R C, Baqui A H, Darmstadt G L, Santosham Mathuram, West Jr K P, 2017. An integrated nutrition and health program package on IYCN improves breastfeeding but not complementary feeding and nutritional status in rural northern India: a quasi-experimental randomized longitudinal study. PLoS ONE 12, e0185030. https://doi.org/10.1371/journal.pone.0185030

Singhal N, Misra A, Shah P, Gulati S, 2010. Effects of controlled school-based multi-component model of nutrition and lifestyle interventions on behavior modification, anthropometry and metabolic risk profile of

urban Asian Indian adolescents in North India. European journal of clinical nutrition 64, 364-373. https://doi.org/10.1038/ejcn.2009.150

Singla Priya, Sachdeva Rajbir, Kochhar Anita, 2012. Impact of nutrition counseling on consumption pattern of junk foods and knowledge, attitudes and practices among adolescent girls of working mothers. Journal of Human Ecology 39, 221–227. https://doi.org/10.1080/09709274.2012.11906514

Sirikulchayanonta Chutima, Iedsee Kingkarn, Shuaytong Poonsook, Srisorrachatr Suwat, 2010. Using food experience, multimedia and role models for promoting fruit and vegetable consumption in Bangkok kindergarten children. Nutrition & Dietetics 67, 97–101. https://doi.org/10.1111/j.1747-0080.2010.01426.x

Sivakumar B, Nair K M, Sreeramulu D, Suryanarayana P, Ravinder P, Shatrugna V, Kumar P A, Raghunath M, Rao V V, Balakrishna N, et al, 2006. Effect of micronutrient supplement on health and nutritional status of schoolchildren: biochemical status. Nutrition (burbank, los angeles county, calif.) 22, S15-25. https://doi.org/10.1016/j.nut.2005.07.012

Sivan Y S, Jayakumar Y A, Arumugham C, Sundaresan A, Balachandran C, Job J, Deepa S S, Shihina S L, Damodaran M, Soman C R, Raman Kutty V, Sarma P S, 2001. Impact of beta-carotene supplementation through red palm oil. Journal of tropical pediatrics 47, 67–72. https://doi.org/10.1093/tropej/47.2.67

Sivan Y S, Jayakumar Y Alwin, Arumughan C, Sundaresan A, Jayalekshmy A, Suja K P, Kumar D R. Soban, Deepa S S, Damodaran Malathi, Soman C R, Kutty V Raman, Sarma P Sankara, 2002. Impact of vitamin A supplementation through different dosages of red palm oil and retinol palmitate on preschool children. Journal of Tropical Pediatrics 48, 24–28. https://doi.org/10.1093/tropej/48.1.24

Skau J K H, Touch B, Chhoun C, Chea M, Unni U S, Makurat J, Filteau S, Wieringa F T, Dijkhuizen M A, Ritz C, Wells J C, Berger J, Friis H, Michaelsen K F, Roos N, 2015. Effects of animal source food and micronutrient fortification in complementary food products on body composition, iron status, and linear growth: a randomized trial in Cambodia. The American Journal of Clinical Nutrition 101, 742–51. https://doi.org/10.3945/ajcn.114.084889

Skordis-Worrall Jolene, Sinha Rajesh, Kumar Ojha Amit, Sarangi Soumendra, Nair Nirmala, Tripathy Prasanta, Sachdev H S, Bhattacharyya Sanghita, Gope Rajkumar, Rath Shibanand, Rath Suchitra, Srivastava Aradhana, Batura Neha, Pulkki-Brännström Anni-Maria, Costello Anthony, Copas Andrew, Saville Naomi, Prost Audrey, Haghparast-Bidgoli Hassan, 2016. Protocol for the economic evaluation of a community-based intervention to improve growth among children under two in rural India (CARING trial). BMJ open 6. https://doi.org/10.1136/bmjopen-2016-012046

Skoufias E, Unar M, Cossio T G, 2013. The Poverty Impacts Of Cash And In-Kind Transfers: Experimental Evidence From Rural Mexico. Journal of Development Effectiveness 5, 401–429. https://doi.org/10.1080/19439342.2013.843578

Skreli E, Imami D, Jambor A, Zvyagintsev D, Cera G, 2015. The Impact of Government Subsidies on the Olive and Vineyard Sectors of Albanian Agriculture. Studies in Agricultural Economics 117, 119–25. https://doi.org/10.7896/j.1525

Skroder H, Kippler M, Tofail F, Vahter M, 2017. Early-life selenium status and cognitive function at 5 and 10 years of age in Bangladeshi children. Environmental Health Perspectives 125. https://doi.org/10.1289/EHP1691

Skugarevsky Oleg, Wade Kaitlin H, Richmond Rebecca C, Martin Richard M, Tilling Kate, Patel Rita, Vilchuck Konstantin, Bogdanovich Natalia, Sergeichick Natalia, Davey Smith, George, Gillman Matthew W, Oken Emily, Kramer Michael S, 2014. Effects of promoting longer-term and exclusive breastfeeding on childhood eating attitudes: a cluster-randomized trial. International Journal of Epidemiology 43, 1263–1271. https://doi.org/10.1093/ije/dyu072

Sloand Elizabeth, Astone Nan Marie, Gebrian Bette, 2010. The Impact of Fathers' Clubs on Child Health in Rural Haiti. American Journal of Public Health 100, 201–204. https://doi.org/10.2105/AJPH.2008.152439

Smith S C, Fishman R, Bobicì V, Sulaiman M, 2017. How Sustainable Are Benefits from Extension for Smallholder Farmers? Evidence from a Randomised Phase-Out of the BRAC Program in Uganda. Institute of Labor Economics.

Smuts C M, Matsungo T M, Malan L, Kruger H S, Rothman M, Kvalsvig J D, Covic N, Joosten K, Osendarp S J. M, Bruins M J, Frenken L G. J, Lombard C J, Faber M, 2019. Effect of small-quantity lipid-based nutrient supplements on growth, psychomotor development, iron status, and morbidity among 6- to 12-mo-old infants in South Africa: a randomized controlled trial. American Journal of Clinical Nutrition 109, 55–68. https://doi.org/10.1093/ajcn/nqy282

Smuts Cornelius M, Lombard Carl J, Benadé A J. Spinnler, Dhansay Muhammad A, Berger Jacques, Hop Le Thi, Romana Guillermo Lopez de, Untoro Juliawati, Karyadi Elvina, Erhardt Jurgen, Gross Rainer, 2005. Efficacy of a foodlet-based multiple micronutrient supplement for preventing growth faltering, anemia, and micronutrient deficiency of infants: the four country IRIS trial pooled data analysis. Journal of clinical nutrition 135, 631S-638S. https://doi.org/10.1093/jn/135.3.631S

Snapp S S, Fisher M, 2014. Filling the maize basket supports crop diversity and quality of household diet in Malawi. Food Security 7, 83–96. https://doi.org/10.1007/s12571-014-0410-0

Soekarjo DD, Pee SS, Kusin JA, Schreurs WH, Schultink W, Muhilal, Bloem MW, 2004. Effectiveness of weekly vitamin A (10 000 IU) and iron (60 mg) supplementation for adolescent boys and girls through schools in rural and urban East Java, Indonesia. European Journal of Clinical Nutrition 58, 927–937. https://doi.org/10.1038/sj.ejcn.1601914

Soldateli Betina, Vigo Alvaro, Giugliani Elsa Regina Justo, 2016. Adherence to dietary recommendations for preschoolers: clinical trial with teenage mothers. Revista de Saúde Pública 50, 83. https://doi.org/10.1590/s1518-8787.2016050006622

Solomon Asfaw, Robert Pickmans, Federica Alfani, Benjamin Davis, 2016. Productive Impact of Ethiopia's Social Cash Transfer Pilot Programme: A From Protection to Production (PtoP) report. FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS.

Solon F S, Sarol J N, Bernardo A B, Solon J A, Mehansho H, Sanchez-Fermin L E, Wambangco L S, Juhlin K D, 2003. Effect of a multiple-micronutrient-fortified fruit powder beverage on the nutrition status, physical fitness, and cognitive performance of schoolchildren in the Philippines. Food and nutrition bulletin 24, S129-40. https://doi.org/10.1177/15648265030244S210

Somassè Yassinmè Elysée, Diallo Mamadou, Donnen Philippe, Dramaix Michèle, Konaté Mamadou, Ngabonziza Ildephonse, Touré Ousmane, Traoré Boncana, 2018. The WHO recommendation of home fortification of foods with multiple-micronutrient powders in children under 2 years of age and its effectiveness on anaemia and weight: a pragmatic cluster-randomized controlled trial. Public health nutrition 21, 1350–1358. https://doi.org/10.1017/S1368980017003858

Somsri P, Satheannoppakao W, Tipayamongkholgul M, Vatanasomboon P, Kasemsup R, 2016. A cosmetic content-based nutrition education program improves fruit and vegetable consumption among grade 11 Thai students. Journal of Nutrition Education 48, 190–198. https://doi.org/10.1016/j.jneb.2015.11.002

Soofi Sajid B, 2017. Effectiveness of SNF, Cash and BCC to Prevent Stunting Among Children 6-24 Months in Rahim Yar Khan, Pakistan.

Soofi Sajid, Cousens Simon, Iqbal Saleem P, Akhund Tauseef, Khan Javed, Ahmed Imran, Zaidi Anita K M, Bhutta Zulfiqar A, 2013. Effect of provision of daily zinc and iron with several micronutrients on growth and morbidity among young children in Pakistan: a cluster-randomised trial. Lancet 382, 29–40. https://doi.org/10.1016/S0140-6736(13)60437-7

Sorouri Z Z, Sadeghi H, Pourmarzi D, 2016. The effect of zinc supplementation on pregnancy outcome: a randomized controlled trial. Journal of maternal-fetal & neonatal medicine 29, 2194-2198. https://doi.org/10.3109/14767058.2015.1079615

Souza Vanessa Rocha de, Ferreira Amanda Brinco, José Jackline Freitas Brilhante de São, Silva Erika Madeira Moreira da, Silva Daniela Alves, 2019. Influence of intervention on the menu's nutritional and sensory qualities and on the food waste of children's education center. Ciência & Saúde Coletiva 24, 411–418. https://doi.org/10.1590/1413-81232018242.02362017

Sperandio N, Rodrigues C T, Franceschini S do C. C, Priore S E, 2017. Impact of Bolsa Familia Program on the nutritional status of children and adolescents from two Brazilian regions. Revista de Nutricao 30, 477–487. https://doi.org/10.1590/1678-98652017000400007

Sranacharoenpong K, Praditsorn P, Churak P, 2018. Developing a diabetes prevention education program for community health care workers in Thailand: Translation of the knowledge to at-risk people. Journal of Public Health 26, 515–522. https://doi.org/10.1007/s10389-018-0897-5

Srivastava Rahul, Kant Shashi, Singh A K, Saxena Renu, Yadav Kapil, Pandav C S, 2019. Effect of iron and folic acid tablet versus capsule formulation on treatment compliance and iron status among pregnant women: a randomized controlled trial. Journal of Family Medicine and Primary Care 8, 378–384. https://doi.org/10.4103/jfmpc.jfmpc_339_18

Stark L, Kassim N, Sparling T, Buscher D, Yu G, Boothby N, 2015. Assessing the impact of microfinance programming on children: an evaluation from post-tsunami Aceh. Disasters 39, 295–315. https://doi.org/10.1111/disa.12101

Stein A D, Wang M, DiGirolamo A, Grajeda R, Ramakrishnan U, Ramirez-Zea M, Yount K, Martorell R, 2008. Nutritional Supplementation in Early Childhood, Schooling, and Intellectual Functioning in Adulthood: A Prospective Study in Guatemala. Archives of Pediatrics and Adolescent Medicine 62, 612–618. https://doi.org/10.1001/archpedi.162.7.612

Stein A D, Wang M, Rivera J A, Martorell R, Ramakrishnan U, 2012. Auditory- and visual-evoked potentials in Mexican infants are not affected by maternal supplementation with 400 mg/d docosahexaenoic acid in the second half of pregnancy. Journal of Nutrition 142, 1577–1581. https://doi.org/10.3945/jn.112.162461

Stephenson Kevin B, Agapova Sophia E, Divala Oscar, Kaimila Yankho, Maleta Kenneth M, Thakwalakwa Chrissie, Ordiz M Isabel, Trehan Indi, Manary Mark J, 2017. Complementary feeding with cowpea reduces growth faltering in rural Malawian infants: a blind, randomized controlled clinical trial. American Journal of Clinical Nutrition 106, 1500–1507. https://doi.org/10.3945/ajcn.117.160986

Stevens Briony, Watt Kerrianne, Brimbecombe Julie, Clough Alan, Judd Jenni A, Lindsay Daniel, 2018. A village-matched evaluation of providing a local supplemental food during pregnancy in rural Bangladesh: a preliminary study. BMC pregnancy and childbirth 18, 286. https://doi.org/10.1186/s12884-018-1915-x

Stewart C P, Christian P, Katz J, Schulze K J, Wu L S. F, LeClerq S C, Shakya T R, Khatry S K, West K P, 2010. Maternal supplementation with vitamin A or beta -carotene and cardiovascular risk factors among pre-adolescent children in rural Nepal. Journal of Developmental Origins of Health and Disease 1, 262–270. https://doi.org/10.1017/S2040174410000255

Stewart C P, Dewey K G, Lin A, Pickering A J, Byrd K A, Jannat K, Ali S, Rao G, Dentz H N, Kiprotich M, Arnold C D, Arnold B F, Allen L H, Shahab-Ferdows S, Ercumen A, Grembi J A, Naser A M, Rahman M, Unicomb L, Colford J M, Luby S P, Null C, 2019. Effects of lipid-based nutrient supplements and infant and young child feeding counseling with or without improved water, sanitation, and hygiene (WASH) on anemia and micronutrient status: results from 2 cluster-randomized trials in Kenya and Bangladesh. American Journal of Clinical Nutrition 109, 148–164. https://doi.org/10.1093/ajcn/nqy239

Stewart Christine P, Caswell Bess, Iannotti Lora, Lutter Chessa, Arnold Charles D, Chipatala Raphael, Prado Elizabeth L, Maleta Kenneth, 2019. The effect of eggs on early child growth in rural Malawi: the Mazira Project randomized controlled trial. American journal of clinical nutrition 1–8. https://doi.org/10.1093/ajcn/nqz163

Stoeffler Quentin, Mills Bradford F, Premand Patrick, 2016. Poor households' productive investments of cash transfers : quasi-experimental evidence from Niger. The World Bank, Policy Research Working Paper Series: 7839.

Stoltzfus Rebecca J, Kvalsvig Jane D, Chwaya Hababu M, Montresor Antonio, Albonico Marco, Tielsch James M, Savioli Lorenzo, Pollitt Ernesto, 2001. Effects of iron supplementation and anthelmintic treatment on motor and language development of preschool children in Zanzibar: double blind, placebo controlled study. BMJ. https://doi.org/10.1136/bmj.323.7326.1389

Stuijvenberg M E, Faber M, Dhansay M A, Lombard C J, Vorster N, Benade A J S, 2000. Red palm oil as a source of beta -carotene in a school biscuit used to address vitamin A deficiency in primary school children. International Journal of Food Sciences and Nutrition 51, S43–S50. https://doi.org/10.1080/096374800750049567

Sturm Roland, An Ruopeng, Segal Darren, Patel Deepak, 2013. A cash-back rebate program for healthy food purchases in South Africa: results from scanner data. American journal of preventive medicine 44, 567–572. https://doi.org/10.1016/j.amepre.2013.02.011

Subervie J, Vagneron I, 2013. A Drop of Water in the Indian Ocean? The Impact of GlobalGap Certification on Lychee Farmers in Madagascar. World Development 50, 57–73. https://doi.org/10.1016/j.worlddev.2013.05.002

Sudfeld C R, Bliznashka L, Ashery G, Yousafzai A K, Masanja H, 2019. Effect of a community health worker delivered health, nutrition and responsive stimulation package and conditional cash transfers on child development and growth in rural Tanzania: protocol for a cluster-randomized trial. BMC Public Health 19. https://doi.org/10.1186/s12889-019-7008-6

Sudfeld Christopher R, Manji Karim P, Darling Anne Marie, Kisenge Rodrick, Kvestad Ingrid, Hysing Mari, Belinger David C, Strand Tor A, Duggan Christopher P, Fawzi Wafaie W, 2019. Effect of antenatal and infant micronutrient supplementation on middle childhood and early adolescent development outcomes in Tanzania. European Journal of Clinical Nutrition 73, 1283–1290. https://doi.org/10.1038/s41430-019-0403-3

Sudha Narayanan, Gerber N, Udayan Rathore, Karthikeya Naraparaju, 2017. Can social safety nets protect public health? The effect of India's workfare and foodgrain subsidy programmes on anaemia. ZEF-Discussion Papers on Development Policy. https://doi.org/10.2139/ssrn.3055697

Sulaiman Munshi, 2014. Return to capital in post-conflict context: Impact evaluation of asset and cash transfers in South Sudan.

Suman Chakrabarti, Avinash Kishore, Devesh Roy, 2018. Effectiveness of food subsidies in raising healthy food consumption: public distribution of pulses in India. American Journal of Agricultural Economics 0, 1–23. https://doi.org/10.1093/ajae/aay022

Sun X, Guo Y, Wang S, Sun J, 2007. Social Marketing Improved the Consumption of Iron-fortified Soy Sauce among Women in China. Journal of nutrition education and behavior 39, 302–310. https://doi.org/10.1016/j.jneb.2007.03.090

Sunawang, Utomo B, Hidayat A, Kusharisupeni, Subarkah, 2009. Preventing low birthweight through maternal multiple micronutrient supplementation: a cluster-randomized, controlled trial in Indramayu, West Java. Food and Nutrition Bulletin 30, S488–S495. https://doi.org/10.1177/15648265090304s403

Sungthong R, Mo-suwan L, Chongsuvivatwong V, Geater A F, 2002. Once Weekly Is Superior to Daily Iron Supplementation on Height Gain but Not on Hematological Improvement among Schoolchildren in Thailand 132, 418–422. https://doi.org/10.1093/jn/132.3.418

Surkan P J, Charles M K, Katz J, Siegel E H, Khatry S K, LeClerq S C, Stoltzfus R J, Tielsch J M, 2015. The role of zinc and iron-folic acid supplementation on early child temperament and eating behaviors in rural Nepal: a randomized controlled trial. PLoS ONE 10, e0114266. https://doi.org/10.1371/journal.pone.0114266

Susiloretni Kun Aristiati, 2016. NutFish and Nutrient Supplementation in Pregnancy Class to Improve Maternal and Birth Outcomes. Clinicaltrials.gov.

Susiloretni Kun Aristiati, Krisnamurni Sri, Sunarto, Widiyanto Santo Yosef Didik, Yazid Ahmad, Wilopo Siswanto Agus, 2013. The effectiveness of multilevel promotion of exclusive breastfeeding in rural Indonesia. American Journal of Health Promotion 28, e44–e55. https://doi.org/10.4278/ajhp.120425-QUAN-221

Sutrisna A, Vossenaar M, Poonawala A, Mallipu A, Izwardy D, Menon R, Tumilowicz A, 2018. Improved Information and Educational Messages on Outer Packaging of Micronutrient Powders Distributed in Indonesia Increase Caregiver Knowledge and Adherence to Recommended Use. Nutrients 10. https://doi.org/10.3390/nu10060747

Szenker Daniel Zaga, 2015. The Impact Of Three Mexican Nutritional Programs: The Case Of Dif-Puebla. Graduate Institute of Geneva Centre for Finance and Development 2015, 1–82.

Tagliati Federico, 2018. Welfare effects of an in-kind transfer program: evidence from Mexico Banco de Espana Working Paper No. 1850.

Taillie L S, Rivera J A, Popkin B M, Batis C, 2017. Do high vs. low purchasers respond differently to a nonessential energy-dense food tax? Two-year evaluation of Mexico's 8% nonessential food tax. Preventive Medicine 105, S37–S42. https://doi.org/10.1016/j.ypmed.2017.07.009

Takahashi K, Ikegami M, Sheahan M, Barrett C B, 2016. Experimental Evidence on the Drivers of Index-Based Livestock Insurance Demand in Southern Ethiopia. World Development 78, 324–40. https://doi.org/10.1016/j.worlddev.2015.10.039

Takam-Fongang Guy Martial, Kamdem Cyrille Bergaly, Kane Gilles Quentin, 2019. Adoption and impact of improved maize varieties on maize yields: Evidence from central Cameroon. Review of Development Economics 23, 172–188. https://doi.org/10.1111/rode.12561

Takeshima Hiroyuki, Liverpool-Tasie Saweda Lenis O, 2015. Fertilizer subsidies, political influence and local food prices in sub-Saharan Africa: Evidence from Nigeria. Food policy 54, 11–24. https://doi.org/10.1016/j.foodpol.2015.04.003

Takeshima Hiroyuki, Nagarajan Latha, 2012. Minor Millets in Tamil Nadu, India: Local Market Participation, On-Farm Diversity and Farmer Welfare. Environment and Development Economics 17, 603–632. https://doi.org/10.1017/S1355770X12000368

Taljaard Christine, Covic Namukolo M, van Graan Averalda E, Kruger Herculina S, Smuts Cornelius M, Baumgartner Jeannine, Kvalsvig Jane D, Wright Hattie H, van Stuijvenberg Martha E, Jerling Johann C, 2013. Effects of a multi-micronutrient-fortified beverage, with and without sugar, on growth and cognition in South African schoolchildren: a randomised, double-blind, controlled intervention. British Journal of Nutrition 110, 2271–2284. https://doi.org/10.1017/S000711451300189X

Talsma Elise F, Brouwer Inge D, Verhoef Hans, Mbera Gloria N. K, Mwangi Alice M, Demir Ayşe Y, Maziya-Dixon Busie, Boy Erick, Zimmermann Michael B, Melse-Boonstra Alida, 2016. Biofortified yellow cassava and vitamin A status of Kenyan children: a randomized controlled trial. American Journal of Clinical Nutrition 103, 258–267. https://doi.org/10.3945/ajcn.114.100164

Tambo Justice A, Wünscher Tobias, 2018. Building farmers' capacity for innovation generation: Insights from rural Ghana. Renewable Agriculture and Food Systems 33, 116–130. https://doi.org/10.1017/S1742170516000521

Tamini L D, Bocoum I, Auger G, Lawin K G, Traoré A, 2019. Enhanced microfinance services and agricultural best management practices: what benefits for smallholders farmers? An evidence from Burkina Faso. CIRANO Working Papers - Center for Interuniversity Research and Analysis on Organizations.

Taneja S, Strand T A, Sommerfelt H, Bahl R, Bhandari N, 2010. Zinc supplementation for four months does not affect growth in young north Indian children. Journal of Nutrition 140, 630–634. https://doi.org/10.3945/jn.109.115766

Taneja Sunita, Strand Tor A, Kumar Tivendra, Mahesh Madhu, Mohan Sanjana, Manger Mari S, Refsum Helga, Yajnik Chittaranjan S, Bhandari Nita, 2013. Folic acid and vitamin B-12 supplementation and common infections in 6-30-mo-old children in India: a randomized placebo-controlled trial. The American journal of clinical nutrition 98, 731–7. https://doi.org/10.3945/ajcn.113.059592

Tang Guangwen, Hu Yuming, Yin Shi-an, Wang Yin, Dallal Gerard E, Grusak Michael A, Russell Robert M, 2012. beta-Carotene in Golden Rice is as good as beta-carotene in oil at providing vitamin A to children. The American Journal of Clinical Nutrition 96, 658–664. https://doi.org/10.3945/ajcn.111.030775

Tang MingHua, Sheng XiaoYang, Krebs N F, Hambidge K M, 2014. Meat as complementary food for older breastfed infants and toddlers: a randomized, controlled trial in rural China. Food and Nutrition Bulletin 35, 188S-192S. https://doi.org/10.1177/15648265140354S304

Tanner J, Hayashi R, Li Y, 2015. Improving coverage and utilization of maternal and child health Services in Lao PDR. Independent Evaluation Group, The World Bank Group. https://doi.org/10.1596/24951

Tariku B, Whiting S J, Mulualem D, Singh P, 2015. Application of the Health Belief Model to Teach Complementary Feeding Messages in Ethiopia. Ecology of food and nutrition 54, 572–82. https://doi.org/10.1080/03670244.2015.1049344

Tarozzi A, 2005. The Indian Public Distribution System as Provider of Food Security: Evidence from Child Nutrition in Andhra Pradesh. European Economic Review 49, 1305–1330. https://doi.org/10.1016/j.euroecorev.2003.08.015

Tatala S R, Ash D, Makola D, Latham M, Ndosi G, Grohn Y, 2002. Effect of micronutrient fortified beverage on nutritional anaemia during pregnancy. East African medical journal 79, 598-603. https://doi.org/10.4314/eamj.v79i11.8806

Tavassoli E, Ramezankhani A, Mirmiran P, Mehrabi Y, 2014. Evaluation of a school program aimed at the prevention of obesity in high school girl students: a theory based intervention study. American-Eurasian Journal of Agricultural & Environmental Sciences 14, 314–321.

Taveros Alberto A, More Simon J, 2001. A field trial of the effect of improved piglet management on smallholder sow productivity in the Philippines. Preventive veterinary medicine 49, 235–247. https://doi.org/10.1016/s0167-5877(01)00183-0

Taylor M, Jinabhai C C, Couper I, Kleinschmidt I, Jogessar V B, 2001. The effect of different anthelmintic treatment regimens combined with iron supplementation on the nutritional status of schoolchildren in KwaZulu-Natal, South Africa: a randomized controlled trial. Transactions of the Royal Society of Tropical Medicine and Hygiene 95, 211–216. https://doi.org/10.1016/S0035-9203(01)90171-3

Tayo Bada Abass, Adekomi Bimbo, O A Ojo, 2012. Effects of animated agricultural science instructional package on attitude and performance of junior secondary school students in south west area, Nigeria. Mediterranean Journal of Social Sciences 3, 425–435. https://doi.org/10.5901/mjss.2012.03.01.425

Teng C Y, Chin Y S, Taib M, Chan Y M, 2018. Evaluation of the effectiveness of a 3-year, teacher-led healthy lifestyle program on eating behaviors among adolescents living in day school hostels in Malaysia. Food and Nutrition Bulletin 39, 595–607. https://doi.org/10.1177/0379572118795358

Teo C H, Chin Y S, Lim P Y, 2019. School-based intervention that integrates nutrition education and supportive healthy school food environment among Malaysian primary school children: a study protocol. BMC Public Health 19, 10. https://doi.org/10.1186/s12889-019-7708-y

Tesfamariam B Y, Owusu-Sekyere E, Emmanuel D, Elizabeth T B, 2018. The impact of the homestead food garden programme on food security in South Africa. Food Security 10, 95–110. https://doi.org/10.1007/s12571-017-0756-1

Tesfaye Abonesh, Bogale Ayalneh, Namara Regassa E, Bacha Dereje, 2008. The impact of small-scale irrigation on household food security: The case of Filtino and Godino irrigation schemes in Ethiopia. Irrigation and Drainage Systems 22, 145–158. https://doi.org/10.1007/s10795-008-9047-5

Teshome Emily M, Andang'o Pauline E. A, Osoti Victor, Terwel Sofie R, Otieno Walter, Demir Ayşe Y, Prentice Andrew M, Verhoef Hans, 2017. Daily home fortification with iron as ferrous fumarate versus NaFeEDTA: a randomised, placebo-controlled, non-inferiority trial in Kenyan children. BMC Medicine 15, 1–16. https://doi.org/10.1186/s12916-017-0839-z

Teshome Getenesh Berhanu, Whiting Susan J, Green Timothy J, Mulualem Demmelash, Henry Carol J, 2020. Scaled-up nutrition education on pulse-cereal complementary food practice in Ethiopia: a cluster-randomized trial. BMC Public Health 20. https://doi.org/10.1186/s12889-020-09262-8

Tessema M, Gunaratna N, Donato K, Cohen J, McConnell M, Belayneh D, Brouwer I, Belachew T, De Groote H, 2016. Translating the impact of quality protein maize into improved nutritional status for Ethiopian children: study protocol for a randomized controlled trial. BMC Nutrition 2, 13. https://doi.org/10.1186/s40795-016-0089-z

Thacher T D, Fischer P R, Isichei C O, Zoakah A I, Pettifor J M, 2012. Prevention of nutritional rickets in Nigerian children with dietary calcium supplementation. Bone 50, 1074–1080. https://doi.org/10.1016/j.bone.2012.02.010

Thankachan P, Rah J H, Thomas T, Selvam S, Amalrajan V, Srinivasan K, Steiger G, Kurpad A V, 2012. Multiple micronutrient-fortified rice affects physical performance and plasma vitamin B-12 and homocysteine concentrations of Indian school children. Journal of Nutrition 142, 846–852. https://doi.org/10.3945/jn.111.149021

Thuita Faith Thuita, Martin S L, Ndegwa K, Bingham A, Mukuria A G, 2015. Engaging fathers and grandmothers to improve maternal and child dietary practices: planning a community-based study in Western Kenya. African Journal of Food, Agriculture, Nutrition and Development 15, 10386–10405.

Thussanasupap Benjamas, Lapvongwatana Punyarat, Kalampakorn Surintorn, Spatz Diane Lynn, 2016. Effects of the Community--Based Breastfeeding Promotion Program for Working Mothers: A Quasi-experimental Study. Pacific Rim International Journal of Nursing Research 20, 196–209.

Thuy P V, Berger J, Nakanishi Y, Khan N C, Lynch S, Dixon P, 2005. The use of NaFeEDTA-fortified fish sauce is an effective tool for controlling iron deficiency in women of childbearing age in rural Vietnam. The Journal of nutrition 135, 2596–601. https://doi.org/10.1093/jn/135.11.2596

Tielsch J M, Khatry S K, Stoltzfus R J, Katz J, LeClerq S C, Adhikari R, Mullany L C, Black R, Shresta S, 2007. Effect of daily zinc supplementation on child mortality in southern Nepal: a community-based, cluster randomised, placebo-controlled trial. Lancet (British edition) 370, 1230–1239. https://doi.org/10.1016/S0140-6736(07)61539-6

Tielsch James M, Christian Parul, Khatry Subarna K, 2018. Balanced Protein-Energy Supplement in Pregnancy and Early Lactation on Birth Outcomes and Growth in Southern Nepal.

Tijani A A, Masuku M B, Raufu M O, 2014. The impact of the Fadama II intervention on rural households in Kogi and Kwara States, Nigeria. American Journal of Experimental Agriculture 4, 1996–2010. https://doi.org/10.9734/AJEA/2014/10726

Tilling Kate, Davies Neil M, Nicoli Emily, Ben-Shlomo Yoav, Kramer Michael S, Patel Rita, Oken Emily, Martin Richard M, 2011. Associations of growth trajectories in infancy and early childhood with later childhood outcomes. The American Journal of Clinical Nutrition 94, 1808S-1813S. https://doi.org/10.3945/ajcn.110.001644

Ting G P, Tan S Y, Chan S P, Karuthan C, Zaitun Y, Suriah A R, Chee W S S, 2007. A follow-up study on the effects of a milk supplement on bone mineral density of postmenopausal Chinese women in Malaysia. Journal of Nutrition, Health & Aging 11, 69–73.

Tiznobaik Azita, Taheri Safoura, Momenimovahed Zohreh, Kazemnejad Anooshirvan, Mirmolaei Seyedeh Tahereh, 2018. Effects of counseling on lifestyle of menopause women and their spouses: a randomized, controlled trial study (RCT). Electronic Journal of General Medicine 15, 1–5. https://doi.org/10.29333/ejgm/85735

Tobacman Jeremy, Stein Daniel, Shah Vivek, Litvine Laura, Cole Shawn, Chattopadhyay Raghabendra, 2017. Insuring Farmers Against Weather Shocks: Evidence From India, 3ie Series Report. Completed.

Todo Yasuyuki, Takahashi Ryo, 2013. Impact of Farmer Field Schools on Agricultural Income and Skills: Evidence from an Aid-Funded Project in Rural Ethiopia. Journal of International Development 25, 362–81. https://doi.org/10.1002/jid.1819

Tomlinson Mark, Hartley Mary, Le Roux Ingrid M, Rotheram-Borus Mary Jane, 2016. The Philani Mentor Mothers Intervention: Neighbourhood wide impact on child growth in Cape Town's peri-urban settlements. Vulnerable Children and Youth Studies 11, 211–220. https://doi.org/10.1080/17450128.2016.1214770

Toral Natacha, Slater Betzabeth, 2012. Intervention based exclusively on stage-matched printed educational materials regarding healthy eating does not result in changes to adolescents' dietary behavior. Scientific World Journal 174640–174640. https://doi.org/10.1100/2012/174640

To-The N, Nguyen-Anh T, 2020. Impact of government intervention to maize efficiency at farmer's level across time: a robust evidence in Northern Vietnam. Environment, Development and Sustainability. https://doi.org/10.1007/s10668-020-00662-9

Toulabi Tahereh, Nikoo Mohsen Khosh Niyat, Amini Fariba, Nazari Hedayat, Mardani Mahnaz, 2012. The influence of a behavior modification interventional program on body mass index in obese adolescents. Journal of the Formosan Medical Association 111, 153-159. https://doi.org/10.1016/j.jfma.2011.05.007

Toure D, Rawat R, Stoltzfus R J, Harvey D, Mwanamwenge M, Pelletier D L, 2016. The effects of a nutrition-sensitive agricultural intervention on social support, food security and maternal self-efficacy in complementary feeding. Cochrane Central Register of Controlled Trials 2017.

Toure Ousmane, Coulibaly Salimata, Arby Aminata, Maiga Farmata, Cairncross Sandy, 2013. Piloting an intervention to improve microbiological food safety in Peri-Urban Mali. International journal of hygiene and environmental health 216, 138–45. https://doi.org/10.1016/j.ijheh.2012.02.003

Tran Duc, Goto Daisaku, 2019. Impacts of Sustainability Certification on Farm Income: Evidence from Small-Scale Specialty Green Tea Farmers in Vietnam. Food Policy 83, 70–82. https://doi.org/10.1016/j.foodpol.2018.11.006

Tran Thach Duc, Fisher Jane, Hanieh Sarah, Tran Tuan, Simpson Julie Anne, Tran Ha, Biggs Beverley-Ann, 2015. Antenatal iron supplementation regimens for pregnant women in rural Vietnam and subsequent haemoglobin concentration and anaemia among their infants. PLoS ONE 10. https://doi.org/10.1371/journal.pone.0125740

Tranchant Jean-Pierre, Gelli Aulo, Bliznashka Lilia, Diallo Amadou Sekou, Sacko Moussa, Assima Amidou, Siegel Emily H, Aurino Elisabetta, Masset Edoardo, 2019. The Impact of Food Assistance on Food Insecure Populations during Conflict: Evidence from a Quasi-experiment in Mali. World Development 119, 185–202. https://doi.org/10.1016/j.worlddev.2018.01.027

Traore T, Vieu M C, Alfred T S, Serge T, 2005. Effects of the duration of the habituation period on energy intakes from low and high energy density gruels by Burkinabe infants living in free conditions. Appetite 45, 279–286. https://doi.org/10.1016/j.appet.2005.07.001

Troesch B, van Stujivenberg M E, Smuts C M, Kruger H S, Biebinger R, Hurrell R F, Baumgartner J, Zimmermann M B, Troesch Barbara, van Stuijvenberg Martha E, van Stujivenberg Martha E, Smuts Cornelius M, Kruger H Salomè, Biebinger Ralf, Hurrell Richard F, Baumgartner Jeannine, Zimmermann Michael B, 2011. A micronutrient powder with low doses of highly absorbable iron and zinc reduces iron and zinc deficiency and improves weight-for-age Z-scores in South African children. Journal of Nutrition 141, 237–242. https://doi.org/10.3945/jn.110.129247

Tsinigo Edward, Guiu Santiago Jose Sanchez, Tawiah Eric, 2020. The Impact of a Digital Credit for Small-Scale Farmers in Ghana. Innovation for Poverty Action.

Tufa Adane Hirpa, Alene Arega D, Manda Julius, Akinwale M G, Chikoye David, Feleke Shiferaw, Wossen Tesfamicheal, Manyong Victor, 2019. The productivity and income effects of adoption of improved soybean varieties and agronomic practices in Malawi. World Development 124, 104631. https://doi.org/10.1016/j.worlddev.2019.104631

Tupe R P, Chiplonkar S A, 2009. Zinc supplementation improved cognitive performance and taste acuity in Indian adolescent girls. Journal of the American College of Nutrition 28, 388-396. https://doi.org/10.1080/07315724.2009.10718101

Tusiime H A, Renard R, Smets L, 2013. Food Aid and Household Food Security in a Conflict Situation: Empirical Evidence from Northern Uganda. Food Policy 43, 14–22. https://doi.org/10.1016/j.foodpol.2013.07.005

Tylleskär T, Jackson D, Meda N, Engebretsen I M, Chopra M, Diallo A H, Doherty T, Ekström E C, Fadnes L T, Goga A, Kankasa C, Klungsøyr J I, Lombard C, Nankabirwa V, Nankunda J K, Van de Perre P, Sanders D, Shanmugam R, Sommerfelt H, Wamani H, Tumwine J K, PROMISE-EBF Study Group, 2011. Exclusive breastfeeding promotion by peer counsellors in sub-Saharan Africa (PROMISE-EBF): A cluster-randomised trial. The Lancet 378, 420–427. https://doi.org/10.1016/S0140-6736%2811%2960738-1

Uddin M T, Dhar A R, 2020. Assessing the impact of water-saving technologies on Boro rice farming in Bangladesh: economic and environmental perspective. Irrigation Science 38, 199–212. https://doi.org/10.1007/s00271-019-00662-2

Umeta Melaku, West Clive E, Haidar Jemal, Deurenberg Paul, Hautvast Joseph G A J, 2000. Zinc supplementation and stunted infants in Ethiopia: a randomised controlled trial. Lancet 355. https://doi.org/10.1016/S0140-6736(00)02348-5

Underwood Carol R, Broaddus Elena T, Kc Shreejana, Thapa Ravindra K, 2017. Community theater participation and nutrition-related practices: evidence from Nepal. Journal of Health Communication 22, 327–336. https://doi.org/10.1080/10810730.2017.1290166

Unger J A, Ronen K, Perrier T, DeRenzi B, Slyker J, Drake A L, Mogaka D, Kinuthia J, John-Stewart G, 2018. Short message service communication improves exclusive breastfeeding and early postpartum contraception in a low- to middle-income country setting: a randomised trial. BJOG: An International Journal of Obstetrics and Gynaecology 125, 1620–1629. https://doi.org/10.1111/1471-0528.15337

Untoro Juliawati, Karyadi Elvina, Wibowo Lindawati, Erhardt Maria W, Gross Rainer, 2005. Multiple micronutrient supplements improve micronutrient status and anemia but not growth and morbidity of Indonesian infants: a randomized, double-blind, placebo-controlled trial. Journal of Nutrition 135, 639S-645S. https://doi.org/10.1093/jn/135.3.639S

Untoro Juliawati, Schultink Werner, West Clive E, Gross Rainer, Hautvast Joseph GAJ, 2006. Efficacy of oral iodized peanut oil is greater than that of iodized poppy seed oil among Indonesian schoolchildren. American journal of clinical nutrition 84, 1208-1214. https://doi.org/10.1093/ajcn/84.5.1208

Upadhyay S, Kumar A R, Raghuvanshi R S, Singh B B, 2011. Impact of nutrition education on knowledge and haemoglobin status of hill women in Uttarakhand State of India. Malaysian Journal of Nutrition 17, 347–357.

Upton Joanna, 2015. Toward Better Meeting the Needs of the Food Insecure: Three Essays on the Theory and Reality of Food Assistance Policies in the Sahel. TOWARD BETTER MEETING THE NEEDS OF THE FOOD INSECURE: THREE ESSAYS ON THE THEORY AND REALITY OF FOOD ASSISTANCE POLICIES IN THE SAHEL. Cornell University.

USAID, 2019. Endline Report on Impacts Associated with the Bangladesh Agricultural Value Chains Project.
USAID, 2018. PHASE II BASELINE AND PHASE 1 MIDLINE REPORT: IMPACT EVALUATION OF THE FEED THE FUTURE TANZANIA LAND TENURE ASSISTANCE ACTIVITY. USAID.
Vahedi L, Ostadrahimi A, Edalati-Fard F, Aslani H, Farshbaf-Khalili A, 2018. Is fish oil supplementation effective on maternal serum FBS, oral glucose tolerance test, hemoglobin and hematocrit in low risk pregnant women? A triple-blind randomized controlled trial. Journal of Complementary & Integrative Medicine 15. https://doi.org/10.1515/jcim-2018-0010
Vakili Rahim, Bakhsh Mahsa Yazdan, Vahedian Mohamad, Mahmoudi Mahmoud, Saeidi Masumeh, Vakili Saba, 2015. The effect of zinc supplementation on linear growth and growth factors in primary school children in the suburbs Mashhad, Iran. International Journal of Pediatrics 3, 1–7. https://doi.org/10.22038/IJP.2015.3931
Valente Christine, 2009. The Food (In)Security Impact of Land Redistribution in South Africa: Microeconometric Evidence from National Data. World Development 37, 1540–1553. https://doi.org/10.1016/j.worlddev.2009.01.005
Van Campenhout Bjorn, Vandevelde Senne, Walukano Wilberforce, Van Asten Piet, 2017. Agricultural Extension Messages Using Video on Portable Devices Increased Knowledge about Seed Selection, Storage and Handling among Smallholder Potato Farmers in Southwestern Uganda. PLoS ONE 12. https://doi.org/10.1371/journal.pone.0169557
van den Bold Mara, Dillon Andrew, Olney Deanna, Ouedraogo Marcellin, Pedehombga Abdoulaye, Quisumbing Agnes, 2015. Can Integrated Agriculture-Nutrition Programmes Change Gender Norms on Land and Asset Ownership? Evidence from Burkina Faso. Journal of Development Studies 51, 1155–74. https://doi.org/10.1080/00220388.2015.1036036
van der Hoeven, M, 2014. The effect of African Leafy Vegetables on the alleviation of micronutrient deficiencies in school children residing in the North West Province of South Africa.
van der Hoeven Marinka, Faber Mieke, Osei Jennifer, Kruger Annamarie, Smuts Cornelius M, 2016. Effect of African leafy vegetables on the micronutrient status of mildly deficient farm-school children in South Africa: a randomized controlled study. Public health nutrition 19, 935–945. https://doi.org/10.1017/S1368980015002037
Van Hoan Nguyen, Van Phu Pham, Salvignol Bertrand, Berger Jacques, Treche Serge, 2009. Effect of the consumption of high energy dense and fortified gruels on energy and nutrient intakes of 6-10-month-old Vietnamese infants. Appetite 53, 233–40. https://doi.org/10.1016/j.appet.2009.07.002
Van Jaarsveld P J, Faber M, Tanumihardjo S A, Nestel P, Lombard C J, Benade A J S, 2005. β-Carotene-rich orange-fleshed sweet potato improves the vitamin A status of primary school children assessed with the modified-relative-dose-response test. American journal of clinical nutrition 81, 1080–1087. https://doi.org/10.1093/ajcn/81.5.1080
van Stuijvenberg M E, Dhansay M A, Lombard C J, Faber M, Benadé A J, 2001. The effect of a biscuit with red palm oil as a source of beta-carotene on the vitamin A status of primary school children: a comparison with beta-carotene from a synthetic source in a randomised controlled trial. European Journal of Clinical Nutrition 55, 657–662. https://doi.org/10.1038/sj.ejcn.1601196
van Stuijvenberg, M E, Dhansay M A, Smuts C M, Lombard C J, Jogessar V B, Benade A J, 2001. Long-term evaluation of a micronutrient-fortified biscuit used for addressing micronutrient deficiencies in primary school children. Public health nutrition 4, 1201–9.
van Stuijvenberg M E, Smuts C M, Lombard C J, Dhansay M A, 2008. Fortifying brown bread with sodium iron EDTA, ferrous fumarate, or electrolytic iron does not affect iron status in South African schoolchildren. Journal of Nutrition 138, 782–786. https://doi.org/10.1093/jn/138.4.782
van Stuijvenberg M E, Smuts C M, Wolmarans P, Lombard C J, Dhansay M A, 2006. The efficacy of ferrous bisglycinate and electrolytic iron as fortificants in bread in iron-deficient school children. British Journal of Nutrition 95, 532–538. https://doi.org/10.1079/BJN20051669
Vandercasteelen Joachim, Dereje Mekdim, Minten Bart, Taffesse Alemayehu Seyoum, 2018. Labour, Profitability and Gender Impacts of Adopting Row Planting in Ethiopia. European Review of Agricultural Economics 45, 471–503. https://doi.org/10.1093/erae/jby001
Vanslambrouck Katrien W, de Kok Brenda PH, Huybregts Lieven F, Toe Laeticia Celine, Isanaka Sheila, 2018. Effect of a Fortified Balanced Energy-Protein Supplement on Birth Outcome in Houndé District, Burkina Faso. Clinical trials gov.
Varma J L, Levinson F J, Hamer D H, Mannar M G V, Das S, Sankar R, 2007. Community-level micronutrient fortification of a food supplement in India: a controlled trial in preschool children aged 36-66 mo [electronic resource]. American journal of clinical nutrition 85, 1127–1133. https://doi.org/10.1093/ajcn/85.4.1127
Vazir S, Engle P, Balakrishna N, Griffiths P L, Johnson S L, Creed-Kanashiro H, Rao S F, Shroff M R, Bentley M E, 2013. Cluster-randomized trial on complementary and responsive feeding education to caregivers found improved dietary intake, growth and development among rural Indian toddlers. Maternal & Child Nutrition 9, 99–117. https://doi.org/10.1111/j.1740-8709.2012.00413.x
Vazir S, Nagalla B, Thangiah V, Kamasamudram V, Bhattiprolu S, 2006. Effect of micronutrient supplement on health and nutritional status of schoolchildren: mental function. Nutrition (burbank, los angeles county, calif.) 22, S26-32. https://doi.org/10.1016/j.nut.2004.07.021
Veenemans J, 2011. Effect of preventive supplementation with zinc and other micronutrients on malaria and diarrhoeal morbidity in African children. Effect of preventive supplementation with zinc and other micronutrients on malaria and diarrhoeal morbidity in African children.
Venkatramanan S, Marquis G, Neufeld L, Wenger M, Murray-Kolb L, Reinhart G, Haas J, 2017. Double fortified salt intervention improved iron intake but not energy and other nutrient intakes in female tea plantation

workers from West Bengal, India. Food and Nutrition Bulletin 38, 369–383. https://doi.org/10.1177/0379572117718121

Venu L, Singh B, Kumar P, Vijayaragavan K, 2013. Agricultural extension in India – the effectiveness of the Agricultural Technology Management Agency. Outlook on Agriculture 42, 65–71. https://doi.org/10.5367/oa.2013.0115

Verbowski Vashti, Michaux Kristina, McLean Judy, Barr Susan I, Green Tim J, Talukder Zaman, Hou Kroeun, Hoing Ly Sok, Anderson Victoria, Gibson Rosalind, Li Kathy H, Lynd Larry D, 2018. Effect of enhanced homestead food production and aquaculture on dietary intakes of women and children in rural Cambodia: A cluster randomized controlled trial. Maternal & Child Nutrition 14, e12581. https://doi.org/10.1111/mcn.12581

Vidal Karine, Bucheli Peter, Gao Quitao, Moulin Julie, Shen Li-Song, Wang Junkuan, Blum Stephanie, Benyacoub Jalil, 2012. Immunomodulatory effects of dietary supplementation with a milk-based wolfberry formulation in healthy elderly: a randomized, double-blind, placebo-controlled trial. Rejuvenation Research 15, 89–97. https://doi.org/10.1089/rej.2011.1241

Vikram K, Chindarkar N, 2020. Bridging the gaps in cognitive achievement in India: the crucial role of the Integrated Child Development Services in early childhood. World Development (Oxford) 127, 104697. https://doi.org/10.1016/j.worlddev.2019.104697

Villalpando Salvador, Shamah Teresa, Rivera Juan A, Lara Yaveth, Monterrubio Eric, 2006. Fortifying milk with ferrous gluconate and zinc oxide in a public nutrition program reduced the prevalence of anemia in toddlers. Journal of nutrition 136, 2633-2637. https://doi.org/10.1093/jn/136.10.2633

Villalpando Salvador, Zamudio Yaveth Lara, Shamah-Levy Teresa, Mundo-Rosas Verónica, Manzano Alejandra Contreras, Lamadrid-Figueroa Héctor, 2015. Substitution of whole cows' milk with defatted milk for 4 months reduced serum total cholesterol, HDL-cholesterol and total apoB in a sample of Mexican school-age children (6-16 years of age). British Journal of Nutrition 114, 788–795. https://doi.org/10.1017/S0007114515002330

Vinod Kumar Malavika, Rajagopalan S, 2006. Impact of a multiple-micronutrient food supplement on the nutritional status of schoolchildren. Food and nutrition bulletin 27, 203–10. https://doi.org/10.1177/15648265060270030

Vinodkumar M, Rajagopalan S, Bhagwat I P, Singh S, Parmar B S, Mishra O P, Upadhyay S S, Bhalia N B, Deshpande S R, 2007. A multicenter community study on the efficacy of double-fortified salt. Food and nutrition bulletin 28, 100–8. https://doi.org/10.1177/156482650702800111

Vinodkumar Malavika, Rajagopalan Srinivasa, 2009. Efficacy of fortification of school meals with ferrous glycine phosphate and riboflavin against anemia and angular stomatitis in schoolchildren. Food and nutrition bulletin 30, 260–264. https://doi.org/10.1177/156482650903000307

Viteri F E, Casanueva E, Tolentino M C, Diaz-Frances J, Erazo A B, 2012. Antenatal iron supplements consumed daily produce oxidative stress in contrast to weekly supplementation in Mexican non-anemic women. Reproductive Toxicology 34, 125–132. https://doi.org/10.1016/j.reprotox.2012.03.010

Vitolo Marcia Regina, Rauber Fernanda, Campagnolo Paula Dal Bo, Feldens Carlos Alberto, Hoffman Daniel J, 2010. Maternal dietary counseling in the first year of life is associated with a higher healthy eating index in childhood. The Journal of nutrition 140, 2002–2007. https://doi.org/10.3945/jn.110.125211

Wafa Sharifah W, Talib Ruzita A, Hamzaid Nur H, McColl John H, Rajikan Roslee, Ng Lai O, Ramli Ayiesah H, Reilly John J, 2011. Randomized controlled trial of a good practice approach to treatment of childhood obesity in Malaysia: Malaysian Childhood Obesity Treatment Trial (MASCOT). International Journal of Pediatric Obesity 6, e62–e69. https://doi.org/10.3109/17477166.2011.566340

Waid J L, 2018. Trends in Homestead Food Production and Nutrition Outcomes in the Feed the Future Zone of Influence. USAID.

Waiswa Peter, Pariyo George, Kallander Karin, Akuze Joseph, Namazzi Gertrude, Ekirapa-Kiracho Elizabeth, Kerber Kate, Sengendo Hanifah, Aliganyira Patrick, Lawn Joy E, Peterson Stefan, 2015. Effect of the Uganda Newborn Study on care-seeking and care practices: a cluster-randomised controlled trial. Global Health Action 8. https://doi.org/10.3402/gha.v8.24584

Walingo M K, Musamali B, 2008. Nutrient intake and nutritional status indicators of participant and nonparticipant pupils of a parent-supported school lunch program in Kenya. Journal of Nutrition Education and Behavior 40, 298–304. https://doi.org/10.1016/j.jneb.2008.04.353

Walton Colleen, VanLeeuwen J, MacLellan D, Taylor J, Mbugua S, 2017. Effect of nutrition education and dairy group membership on nutrition knowledge, practices and diet quality for rural Kenyan farm women. African Journal of Food, Agriculture, Nutrition and Development 17, 12343–12361. https://doi.org/10.18697/ajfand.79.15350

Wan H, Tiansawad S, Yimyam S, Sriarporn P, 2016. Effects of a theory-based breastfeeding promotion intervention on exclusive breastfeeding in China. Chiang Mai University Journal of Natural Sciences 15, 49–65. https://doi.org/10.12982/cmujns.2016.0005

Wang A Z, Shulman R J, Crocker A H, Thakwalakwa C, Maleta K M, Devaraj S, Manary M J, Trehan I, 2017. A combined intervention of zinc, multiple micronutrients, and albendazole does not ameliorate environmental enteric dysfunction or stunting in rural Malawian children in a double-blind randomized controlled trial. Journal of Nutrition 147, 97–103. https://doi.org/10.3945/jn.116.237735

Wang DongXu, Stewart Donald, Chang Chun, 2017. Is an ecological school-based nutrition intervention effective to improve adolescents' nutrition-related knowledge, attitudes and behaviour in rural areas of China? Global Health Promotion 24, 81–89. https://doi.org/10.1177/1757975915626864

Wang H, Zhao Q, Boswell M, Rozelle S, 2020. Can School Feeding Programs Reduce Malnutrition in Rural China? Journal of School Health 90, 56–64. https://doi.org/10.1111/josh.12849

Wang Huaiyu, Hu RuiFa, Chen Xiaoxue, Zhong Xuhua, Zheng Zuting, Huang Nongrong, Xue Chunling, 2017. Reduction in nitrogen fertilizer use results in increased rice yields and improved environmental protection. International Journal of Agricultural Sustainability 15, 681–692. https://doi.org/10.1080/14735903.2017.1398627

Wang Shuaishuai, Zhang Chi, Li Cuishan, Li Daocheng, He Ping, Su Zhaojuan, Ding Yiling, Li Yanling, Lu Aiping, 2018. Efficacy of Chinese herbal medicine Zengru Gao to promote breastfeeding: a multicenter randomized controlled trial. BMC complementary and alternative medicine 18. https://doi.org/10.1186/s12906-018-2121-0

Wang W, Yan H, Zeng L, Cheng Y, Wang D, Li Q, 2012. No effect of maternal micronutrient supplementation on early childhood growth in rural western China: 30 month follow-up evaluation of a double blind, cluster randomized controlled trial. European Journal of Clinical Nutrition 66, 261–268. https://doi.org/10.1038/ejcn.2011.190

Wang Xin, Li Zhaoping, Liu Yanjun, Lv Xiaofeng, Yang Wenying, 2012. Effects of pistachios on body weight in Chinese subjects with metabolic syndrome. Nutrition Journal 11. https://doi.org/10.1186/1475-2891-11-20

Wang Xu, Luo Renfu, Liu Chengfang, Zhang Linxiu, Yue Ai, Medina Alexis, Rozelle Scott, 2018. Using daily text messages to improve adherence to infant micronutrient powder (MNP) packets in rural western China: A cluster-randomized controlled trial. PLoS ONE 13, e0191549. https://doi.org/10.1371/journal.pone.0191549

Wang Y, Xin L, Li X, Yan J, 2017. Impact of land use rights transfer on household labor productivity: A study applying propensity score matching in Chongqing, China. Sustainability 9. https://doi.org/10.3390/su9010004

Wang YaFei, Pei LiJun, Song XinMing, Chen Gong, Zheng XiaoYing, 2013. Impact of periconceptional multi-micronutrient supplementation on gestation: a population-based study. Biomedical and Environmental Sciences 26, 23–31. https://doi.org/10.3967/0895-3988.2013.01.003

Wanjala B M, Muradian R, 2013. Can Big Push Interventions Take Small-Scale Farmers Out Of Poverty? Insights From The Sauri Millennium Village In Kenya. World Development 45, 147–160. https://doi.org/10.1016/j.worlddev.2012.12.014

Wanyama J M, Nyambati E M, Mose L O, Mutoko C M, Wanyonyi W M, Wanjekeche E, Rono S C, 2010. Assessing impact of soil management technologies on smallholder farmers' livelihoods in north western Kenya. African Journal of Agricultural Research 5, 2899–2908. https://doi.org/10.5897/AJAR.9000066

Warinda Enock, Nyarik Dickson M, Wambua Stephen, Muasya Reuben, 2020. Impact of Smallholder Farmers' Welfare through Participation in On-Farm Regional Projects in East Africa. Agrekon 59, 16–29. https://doi.org/10.1080/03031853.2019.1653203

Warren Andrea M, Frongillo Edward A, Nguyen Phuong H, Menon Purnima, 2020. Nutrition Intervention Using Behavioral Change Communication without Additional Material Inputs Increased Expenditures on Key Food Groups in Bangladesh. Journal of nutrition 150, 1284–1290. https://doi.org/10.1093/jn/nxz339

Wasantwisut Emorn, Winichagoon Pattanee, Chitchumroonchokchai Chureeporn, Yamborisut Uruwan, Boonpraderm Atitada, Pongcharoen Tippawan, Sranacharoenpong Kitti, Russameesopaphorn Wanphen, 2006. Iron and zinc supplementation improved iron and zinc status, but not physical growth, of apparently healthy, breast-fed infants in rural communities of northeast Thailand. The Journal of Nutrition 136, 2405–2411. https://doi.org/10.1093/jn/136.9.2405

Waswa L M, Jordan I, Herrmann J, Krawinkel M B, Keding G B, 2015. Community-based educational intervention improved the diversity of complementary diets in western Kenya: results from a randomized controlled trial. Public Health Nutrition 18, 3406–3419. https://doi.org/10.1017/s1368980015000920

Watcharanon W, Kaewrudee S, Soontrapa S, Somboonporn W, Srisaenpang P, Panpanit L, Pongchaiyakul C, 2018. Effects of sunlight exposure and vitamin D supplementation on vitamin D levels in postmenopausal women in rural Thailand: a randomized controlled trial. Complementary Therapies in Medicine 40, 243–247. https://doi.org/10.1016/j.ctim.2018.06.004

Webb Kathleen, Kamlongera Augustine, Makoka Donald, Sopo Brenda, 2018. Final Evaluation of the School Meals Programme in Malawi with support from United States Department of Agriculture, and the Governments of Brazil and the United Kingdom 2013 to 2015. World Food Programme.

Weinhardt L S, Galvao L W, Yan A F, Stevens P, Mwenyekonde T N, Ngui E, Emer L, Grande K M, Mkandawire-Valhmu L, Watkins S C, 2017. Mixed-method quasi-experimental study of outcomes of a large-scale multilevel economic and food security intervention on HIV vulnerability in rural Malawi. AIDS and Behavior 21, 712–723. https://doi.org/10.1007/s10461-016-1455-1

Wesley Bonam, 2019. Effect Of A Biofortified Food Basket On Micronutrient Status And Immune And Cognitive Function Among Infants In India. http://www.who.int/trialsearch/Trial2.aspx?TrialID=CTRI/2019/04/018589.

Wessells K R, Ouedraogo Z P, Rouamba N, Hess S Y, Ouedraogo J B, Brown K H, 2012. Short-term zinc supplementation with dispersible tablets or zinc sulfate solution yields similar positive effects on plasma zinc concentration of young children in Burkina Faso: a randomized controlled trial. Journal of Pediatrics 160, 129–135. https://doi.org/10.1016/j.jpeds.2011.06.051

West K P, Shamim A A, Mehra S, Labrique A B, Ali H, Shaikh S, Klemm R D W, Wu L S F, Mitra M, Haque R, Hanif A A M, Massie A B, Merrill R D, Schulze K J, Christian P, 2014. Effect of maternal multiple micronutrient vs iron-folic acid supplementation on infant mortality and adverse birth outcomes in rural Bangladesh: the JiVitA-3 randomized trial. JAMA, Journal of the American Medical Association 312, 2649–2658. https://doi.org/10.1001/jama.2014.16819

Weyori A E, Waibel H, Liebenehm S, 2018. Livestock interventions and farmer welfare in sub-Saharan Africa: A panel data analysis from Togo.

White H, 2008. An Impact Evaluation of India's Second And Third Andhra Pradesh Irrigation: A Case of Poverty Reduction with Low Economic Returns. https://doi.org/10.1596/978-0-8213-7542-6

White Howard, Masset Edoardo, 2007. Assessing Interventions to Improve Child Nutrition: A Theory-Based Impact Evaluation of the Bangladesh Integrated Nutrition Project. Journal of International Development 19, 627–652. https://doi.org/10.1002/jid.1344

White S, Schmidt W, Sahanggamu D, Fatmaningrum D, Van Liere M, Curtis V, 2016. Can gossip change nutrition behaviour? Results of a mass media and community-based intervention trial in East Java, Indonesia. Tropical Medicine and International Health 21, 348–364. https://doi.org/10.1111/tmi.12660

Wieringa Frank T, Berger Jacques, Dijkhuizen Marjoleine A, Hidayat Adi, Ninh Nguyen X, Utomo Budi, Wasantwisut Emorn, Winichagoon Pattanee, 2007. Combined iron and zinc supplementation in infants improved iron and zinc status, but interactions reduced efficacy in a multicountry trial in Southeast Asia. Journal of Nutrition 137, 466–471. https://doi.org/10.1093/jn/137.2.466

Wilkus Erin Lynn, Francesconi Gian Nicola, Jager Matthias, 2017. Rural Seed Sector Development through Participatory Varietal Selection: Synergies and Trade-Offs in Seed Provision Services and Market Participation among Household Bean Producers in Western Uganda. Journal of Agribusiness in Developing and Emerging Economies 7, 174–96.

Winichagoon P, McKenzie J E, Chavasit V, Pongcharoen T, Gowachirapant S, Boonpraderm A, Manger M S, Bailey K B, Wasantwisut E, Gibson R S, 2006. A multimicronutrient-fortified seasoning powder enhances the hemoglobin, zinc, and iodine status of primary school children in North East Thailand: a randomized controlled trial of efficacy. The Journal of nutrition 136, 1617–23. https://doi.org/10.1093/jn/136.6.1617

Wong H L, Shi Y, Luo R F, Zhang L, Rozelle S, 2014. Improving the health and education of elementary schoolchildren in rural China: iron supplementation versus nutritional training for parents. Journal of Development Studies 50, 502–519. https://doi.org/10.1080/00220388.2013.866223

Wossen Tesfamicheal, Abdoulaye Tahirou, Alene Arega, Feleke Shiferaw, Ricker-Gilbert Jacob, Manyong Victor, Awotide Bola Amoke, 2017. Productivity and Welfare Effects of Nigeria's e-Voucher-Based Input Subsidy Program. World development 97, 251–265. https://doi.org/10.1016/j.worlddev.2017.04.021

Wu Di Shi, Hu Jie, McCoy Thomas P, Efird Jimmy T, 2014. The effects of a breastfeeding self-efficacy intervention on short-term breastfeeding outcomes among primiparous mothers in Wuhan, China. Journal of Advanced Nursing 70, 1867–1879. https://doi.org/10.1111/jan.12349

Wu Q, Huang Y, van Velthoven M H, Wang W, Chang S, Zhang Y, 2019. The effectiveness of using a WeChat account to improve exclusive breastfeeding in Huzhu County Qinghai Province, China: protocol for a randomized control trial. BMC public health 19, 1603. https://doi.org/10.1186/s12889-019-7676-2

Wünscher T, Tambo J A, 2016. Identification and acceleration of farmer innovativeness in Upper East Ghana, in: Wünscher T, Tambo J A (Eds.), Technological and Institutional Innovations for Marginalized Smallholders in Agricultural Development. Springer, Cham, pp. 163–180. https://doi.org/10.1007/978-3-319-25718-1_10

Wynn A, Rotheram-Borus M J, Leibowitz A A, Weichle T, Roux Ile, Tomlinson M, 2017. Mentor mothers program improved child health outcomes at a relatively low cost in South Africa. Health Affairs 36, 1947–1955. https://doi.org/10.1377/hlthaff.2017.0553

Xian Jinli, Zeng Mao, Zhu Rui, Cai Zhengjie, Shi Zumin, Abdullah Abu S, Zhao Yong, 2020. Design and implementation of an intelligent monitoring system for household added salt consumption in China based on a real-world study: a randomized controlled trial. Trials 21. https://doi.org/10.1186/s13063-020-04295-1

Xu Fei, Ware Robert S, Leslie Eva, Tse Lap Ah, Wang Zhiyong, Li Jiequan, Wang Youfa, 2015. Effectiveness of a Randomized Controlled Lifestyle Intervention to Prevent Obesity among Chinese Primary School Students: cLICK-Obesity Study. PloS one 10. https://doi.org/10.1371/journal.pone.0141421

Xu H, Ecker O, Zhang Q, Du S, Liu A, Li Y, Hu X, Li T, Guo H, Li Y, Xu G, Liu W, Ma J, Sun J, Chen K, Ma G, 2020. The effect of comprehensive intervention for childhood obesity on dietary diversity among younger children: Evidence from a school-based randomized controlled trial in China.

Xu Haiquan, Li Yanping, Zhang Qian, Hu Xiaoqi, Liu Ailing, Du Songming, Li Tingyu, Guo Hongwei, Li Ying, Xu Guifa, Liu Weijia, Ma Jun, Ma Guansheng, 2017. Comprehensive school-based intervention to control overweight and obesity in China: a cluster randomized controlled trial. Asia Pacific Journal of Clinical Nutrition 26, 1139–1151. https://doi.org/10.6133/apjcn.112016.05

Xu Jianwei, Tang Biwei, Liu Min, Bai Yamin, Yan Wei, Zhou Xue, Xu Zhihua, He Jun, Jin Donghui, Sun Jixin, Li Yuan, He Feng J, MacGregor Graham A, Wu Jing, Zhang Puhong, 2020. A town level comprehensive intervention study to reduce salt intake in China: protocol for a cluster randomised controlled trial. BMJ open 10, e032976. https://doi.org/10.1136/bmjopen-2019-032976

Yajnik C S, Lubree H G, Thuse N V, Ramdas L V, Deshpande S S, Deshpande V U, Deshpande J A, Uradey B S, Ganpule A A, Naik S S, Joshi N P, Farrant H, Refsum H, 2007. Oral vitamin B12 supplementation reduces plasma total homocysteine concentration in women in India. Asia Pacific Journal of Clinical Nutrition 16, 103–109.

Yamano Takashi, Dar Manzoor H, Panda Architesh, Gupta Ishika, Malabayabas Maria Luz, Kelly Eric, 2018. The Impact Of Adopting Risk-Reducing, Drought-Tolerant Rice In India. 3ie Series Report 72, 1–46.

Yang Puyun, Liu Wenxin, Shan Xunan, Li Ping, Zhou Jinyu, Lu Jianping, Li Yahong, 2008. Effects of training on acquisition of pest management knowledge and skills by small vegetable farmers. Crop Protection 27, 1504–1510. https://doi.org/10.1016/j.cropro.2008.07.013

Yanuarti Rizky, Aji Joni Murti Mulyo, Rondhi Mohammad, 2019. Risk aversion level influence on farmer's decision to participate in crop insurance: A review. Agricultural Economics – Czech 65, 481–489. https://doi.org/10.17221/93/2019-AGRICECON

Ye Y B, Tang X Y, Verbruggen M A, Su Y X, 2006. Soy isoflavones attenuate bone loss in early postmenopausal Chinese women: a single-blind randomized, placebo-controlled trial. European Journal of Nutrition 45, 327–334. https://doi.org/10.1007/s00394-006-0602-2

Yetnayet M, Henry C J, Berhanu G, Whiting S J, Regassa N, 2017. Nutrition education promoted consumption of pulse based foods among rural women of reproductive age in Sidama zone, Southern Ethiopia. African Journal of Food, Agriculture, Nutrition and Development 17, 12377–12394. https://doi.org/10.18697/ajfand.79.16795

Yorobe J M Jr, Rejesus R M, Hammig M D, 2011. Insecticide use impacts of Integrated Pest Management (IPM) Farmer Field Schools: Evidence from onion farmers in the Philippines [electronic resource]. Agricultural systems 104, 580–587. https://doi.org/10.1016/j.agsy.2011.05.001

Yorobe Jr Jose M, Ali Jauhar, Pede Valerien O, Rejesus Roderick M, Velarde Orlee P, Wang Huaiyu, 2016. Yield and Income Effects of Rice Varieties with Tolerance of Multiple Abiotic Stresses: The Case of Green Super Rice (GSR) and Flooding in the Philippines. Agricultural Economics 47, 261–271. https://doi.org/10.1111/agec.12227

Yotebieng M, Labbok M, Soeters H M, Chalachala J L, Lapika B, Vitta B S, Behets F, 2015. Ten Steps to Successful Breastfeeding programme to promote early initiation and exclusive breastfeeding in DR Congo: a cluster-randomised controlled trial. Lancet Global Health 3, e546-55. https://doi.org/10.1016/S2214-109X(15)00012-1

Young M W, Lupafya E, Kapenda E, Bobrow E A, 2000. The effectiveness of weekly iron supplementation in pregnant women of rural northern Malawi. Tropical Doctor 30, 84–88. https://doi.org/10.1177/004947550003000210

Young Melissa F, Girard Amy Webb, Mehta Rukshan, Srikantiah Sridhar, Gosdin Lucas, Menon Purnima, Ramakrishnan Usha, Martorell Reynaldo, Avula Rasmi, 2018. Acceptability of multiple micronutrient powders and iron syrup in Bihar, India. Maternal & child nutrition 14. https://doi.org/10.1111/mcn.12572

Yousafzai A K, Obradovic J, Rasheed M A, Rizvi A, Portilla X A, Tirado-Strayer N, Siyal S, Memon U, 2016. Effects of responsive stimulation and nutrition interventions on children's development and growth at age 4 years in a disadvantaged population in Pakistan: a longitudinal follow-up of a cluster-randomised factorial effectiveness trial. Lancet Global Health 4, e548–e558. https://doi.org/10.1016/S2214-109X(16)30100-0

Yu HongJie, Li Fang, Hu YongFeng, Li ChangFeng, Yuan Shuai, Song Yong, Zheng MiaoBing, Gong Jie, He QiQiang, 2020. Improving the metabolic and mental health of children with obesity: a school-based nutrition education and physical activity intervention in Wuhan, China. Nutrients 12, 194. https://doi.org/10.3390/nu12010194

Yunus F M, Jalal C, Afsana K, Podder R, Vandenberg A, DellaValle D M, 2019. Iron-fortified lentils to improve iron (Fe) status among adolescent girls in Bangladesh - study protocol for a double-blind community-based randomized controlled trial. Trials 20, 251. https://doi.org/10.1186/s13063-019-3309-4

Yurdakök K, Temiz F, Yalçın S S, Gümrük F, 2004. Efficacy of daily and weekly iron supplementation on iron status in exclusively breast-fed infants. Journal of Pediatric Hematology/Oncology 26, 284–8. https://doi.org/10.1097/00043426-200405000-00005

Yusoff H, Daud W N W, Ahmad Z, 2012. Nutrition education and knowledge, attitude and hemoglobin status of Malaysian adolescents. The Southeast Asian journal of tropical medicine and public health 43, 192–200.

Yusop N B M, 2019. Effects of Omega-3 Supplementation on Nutritional Status and Physical Activity of Obese Children. Cochrane Central Register of Controlled Trials 2019.

Zagré N M, Desplats G, Adou P, Mamadoultaibou A, Aguayo V M, 2007. Prenatal multiple micronutrient supplementation has greater impact on birthweight than supplementation with iron and folic acid: a cluster-randomized, double-blind, controlled programmatic study in rural Niger. Food and Nutrition Bulletin 28, 317–327. https://doi.org/10.1177/156482650702800308

Zahrou F E, El Menchawy I, Azlaf M, Benjeddou K, Saeid N, El Hamdouchi A, El Kari K, El Haloui N, Aguenaou H, 2016. Fortified Iodine Milk Improves Iodine Status and Cognitive Abilities in Schoolchildren Aged 7""9 Years Living in a Rural Mountainous Area of Morocco. Presented at the Annals of nutrition and metabolism. Conference: 12th european nutrition conference, FENS 2015. Berlin germany., p. 436. https://doi.org/10.1159/000440895

Zaman Shakila, Ashraf Rifat N, Martines Jose, 2008. Training in complementary feeding counselling of healthcare workers and its influence on maternal behaviours and child growth: a cluster-randomized controlled trial in Lahore, Pakistan. Journal of Health, Population and Nutrition 26, 210–222.

Zamani A R, Farajzadegan Z, Ghahiri A, Khademloo M, Golshiri P, 2008. Effectiveness of twice weekly iron supplementation compared with daily regimen in reducing anemia and iron deficiency during pregnancy: A randomized trial in Iran. Journal of Research in Medical Sciences 13, 230–239.

Zambrana Luis E, McKeen Starin, Ibrahim Hend, Zarei Iman, Borresen Erica C, Doumbia Lassina, Bore Abdoulaye, Cissoko Alima, Douyon Seydou, Kone Karim, Perez Johann, Perez claudia, Hess Ann, Abdo Zaid, Sangare Lansana, Maiga Ababacar, Becker-Dreps Sylvia, Yuan LiJuan, Koita Ousmane, Vilchez Samuel, Ryan Elizabeth P, 2019. Rice bran supplementation modulates growth, microbiota and metabolome in weaning infants: a clinical trial in Nicaragua and Mali. Scientific Reports 9.

Zant Wouter, 2012. Is EU Support to Malawi Agriculture Effective? Tinbergen Institute Discussion Paper, No. 12-090/V.

Zarban Asghar, Toroghi Mahsa Mostafavi, Asli Marziye, Jafari Masumeh, Vejdan Morteza, Sharifzadeh Gholamreza, 2015. Effect of vitamin C and E supplementation on total antioxidant content of human breastmilk and infant urine. Breastfeeding Medicine 10, 214–217. https://doi.org/10.1089/bfm.2014.0143

Zavaleta N, Respicio G, Garcia T, 2000. Efficacy and acceptability of two iron supplementation schedules in adolescent school girls in Lima, Peru. Journal of Nutrition 130, 462S-464S. https://doi.org/10.1093/jn/130.2.462S

Zavaleta Nelly, Kvistgaard Anne Staudt, Graverholt Gitte, Respicio Graciela, Guija Henry, Valencia Norma, Lonnerdal Bo, 2011. Efficacy of an MFGM-enriched complementary food in diarrhea, anemia, and micronutrient status in infants. Journal of pediatric gastroenterology and nutrition 53, 561–568. https://doi.org/10.1097/MPG.0b013e318225cdaf

Zeba A N, Prével Y M, Somé I T, Delisle H F, 2006. The positive impact of red palm oil in school meals on vitamin A status: study in Burkina Faso. Nutrition Journal 5, 510–512.

Zeitlin Andrew, Caria Stefano, Dzene Richman, Janský Petr, Opoku Emmanuel, Teal Francis, 2010. Heterogeneous returns and the persistence of agricultural technology adoption. University of Oxford, Department of Economics, Economics Series Working Papers: CSAE WPS/2010-37.

Zeng Di, Alwang Jeffrey Roger, Norton George, Shiferaw Bekele, Jaleta Moti, Yirga Chilot, 2014. Agricultural Technology Adoption and Child Nutrition: Improved Maize Varieties in Rural Ethiopia. Presented at the Agricultural & Applied Economics Association's 2014 AAEA Annual Meeting, Minneapolis, MN, July 27-29, 2014., Agricultural and Applied Economics Association. https://doi.org/10.22004/ag.econ.171427

Zeng Lingxia, Cheng Yue, Dang Shaonong, Hong Yan, Dibley Michael J, Chang Suying, Kong Lingzhi, 2008. Impact of micronutrient supplementation during pregnancy on birth weight, duration of gestation, and perinatal mortality in rural western China: double blind cluster randomised controlled trial. BMJ. https://doi.org/10.1136/bmj.a2001

Zeweld Woldegebrial, van Huylenbroeck G, Hidgot Assefa, Chandrakanth M G, Speelman S, 2015. Adoption of small-scale irrigation and its livelihood impacts in northern Ethiopia. Irrigation and Drainage 64, 655–668. https://doi.org/10.1002/ird.1938

Zhang J, Shi L, Chen D F, Wang J, Wang Y, 2013. Effectiveness of an educational intervention to improve child feeding practices and growth in rural China: updated results at 18 months of age. Maternal and Child Nutrition 9, 118–129. https://doi.org/10.1111/j.1740-8709.2012.00447.x

Zhang L, Kleiman-Weiner M, Luo R, Shi Y, Martorell R, Medina A, Rozelle S, 2013. Multiple micronutrient supplementation reduces anemia and anxiety in rural China's elementary school children. Journal of Nutrition 143, 640–647. https://doi.org/10.3945/jn.112.171959

Zhang RongHua, Muyiduli X, Su DanTing, Zhou Biao, Fang YueQiang, Jiang ShuYing, Wang ShuoJia, Huang LiChun, Mo MinJia, Li MinChao, Shao BuLe, Yu YunXian, 2017. Effect of low-dose vitamin D supplementation on serum 25(OH)D in school children and white-collar workers. Nutrients 9, 505. https://doi.org/10.3390/nu9050505

Zhang X, Chen K, Qu P, Liu Y X, Li T Y, 2010. Effect of biscuits fortified with different doses of vitamin A on indices of vitamin A status, haemoglobin and physical growth levels of pre-school children in Chongqing. Public Health Nutrition 13, 1462–1471. https://doi.org/10.1017/S1368980010000820

Zhang Y, Wu Q, Wang W, van Velthoven M H, Chang S, Han H, Xing M, Chen L, Scherpbier R W, 2016. Effectiveness of complementary food supplements and dietary counselling on anaemia and stunting in children aged 6-23 months in poor areas of Qinghai Province, China: a controlled interventional study. BMJ open 6. https://doi.org/10.1136/bmjopen-2016-011234

Zhang Yefu, Ji Meimei, Zou Jiaojiao, Yuan Tong, Deng Jing, Yang Lina, Li Mingzhi, Qin Hong, Chen Jihua, Lin Qian, 2018. Effect of a Conditional Cash Transfer Program on Nutritional Knowledge and Food Practices among Caregivers of 3-5-Year-Old Left-Behind Children in the Rural Hunan Province. International journal of environmental research and public health 15. https://doi.org/10.3390/ijerph15030525

Zhang Yi, Wang Liping, Yang Wenhong, Niu Dayan, Li Chunying, Wang Liling, Gu Ping, Xia Yingqian, Shen Ying, Yan Juhua, Zhao Qian, Mu Kai, Yan Weili, 2019. Effectiveness of Low Glycemic Index Diet Consultations Through a Diet Glycemic Assessment App Tool on Maternal and Neonatal Insulin Resistance: a Randomized Controlled Trial. JMIR mhealth and uhealth 7. https://doi.org/10.2196/12081

Zhang Yuehua, Zhu Xi, Turvey Calum G, 2016. On the Impact of Agricultural Livestock Microinsurance on Death-Loss, Production and Vaccine Use: Observations from a Quasi-natural Experiment in China. Geneva Papers on Risk and Insurance: Issues and Practice 41, 225–243. https://doi.org/10.1057/gpp.2016.3

Zhang Zhiying, Tran Nga T, Nguyen Tu S, Nguyen Lam T, Berde Yatin, Tey Siew Ling, Low Yen Ling, Huynh Dieu T T, 2018. Impact of maternal nutritional supplementation in conjunction with a breastfeeding support program during the last trimester to 12 weeks postpartum on breastfeeding practices and child development at 30 months old. PloS one 13. https://doi.org/10.1371/journal.pone.0200519

Zhao Qiran, Yu Xiaohua, 2020. Parental nutrition knowledge, iron deficiency, and child anaemia in rural China. Journal of Development Studies 56. https://doi.org/10.1080/00220388.2019.1573315

Zhao Wenhua, Zhai Fengying, Zhang Ding, An Yunqing, Liu Ying, He Yuna, Ge Keyou, Scrimshaw Nevin S, 2004. Lysine-fortified wheat flour improves the nutritional and immunological status of wheat-eating families in northern China. Food and nutrition bulletin 25, 123-129. https://doi.org/10.1177/156482650402500203

Zhao Y, Chai Z, Delgado M S, Preckel P V, 2016. An Empirical Analysis of the Effect of Crop Insurance on Farmers' Income: Results from Inner Mongolia in China. China Agricultural Economic Review 8, 299–313. https://doi.org/10.1108/CAER-05-2014-0045

Zhou H, Sun S, Luo R, Sylvia S, Yue A, Shi Y, Zhang L, Medina A, Rozelle S, 2016. Impact of text message reminders on caregivers' adherence to a home fortification program against child anemia in rural western China: a cluster-randomized controlled trial. American Journal of Public Health 106, 1256–1262. https://doi.org/10.2105/AJPH.2016.303140

Zhou Wen-jie, Xu Xiang-long, Li Ge, Sharma Manoj, Qie Ya-Ling, Zhao Yong, 2016. Effectiveness of a school-based nutrition and food safety education program among primary and junior high school students in Chongqing, China. Global Health Promotion 23, 37–49. https://doi.org/10.1177/1757975914552914

Zhu K, Zhang Q, Foo L H, Trube A, Ma G, Hu X, Du X, Cowell C T, Fraser D R, Greenfield H, 2006. Growth, bone mass, and vitamin D status of Chinese adolescent girls 3 y after withdrawal of milk supplementation. American journal of clinical nutrition 83, 714–721. https://doi.org/10.1093/ajcn.83.3.714

Zhu Kun, Du Xueqin, Cowell Chris T, Greenfield Heather, Blades Barbara, Dobbins Timothy A, Zhang Qian, Fraser David R, 2005. Effects of school milk intervention on cortical bone accretion and indicators relevant to bone metabolism in Chinese girls aged 10-12 y in Beijing. American journal of clinical nutrition 81, 1168–1175. https://doi.org/10.1093/ajcn/81.5.1168

Zhu Rui, Xu Xianglong, Zhao Yong, Sharma Manoj, Shi Zumin, 2018. Decreasing the use of edible oils in China using WeChat and theories of behavior change: study protocol for a randomized controlled trial. Trials 19. https://doi.org/10.1186/s13063-018-3015-7

Zhu Xiu, Lu Hong, 2011. Effect of telephone follow-up on breastfeeding behaviors of primiparous women during puperium. Journal of Nursing and Midwifery Sciences 26, 1478–1481. https://doi.org/10.4103/JNMS.JNMS_6_18

Ziaei S, Norrozi M, Faghihzadeh S, Jafarbegloo E, 2007. A randomised placebo-controlled trial to determine the effect of iron supplementation on pregnancy outcome in pregnant women with haemoglobin ≥ 13.2 g/dl. BJOG: An International Journal of Obstetrics & Gynaecology 114, 684–688. https://doi.org/10.1111/j.1471-0528.2007.01325.x

Zikhali P, 2008. Fast track land reform and agricultural productivity in Zimbabwe, Environment for Development Discussion Paper - Resources for the Future (RFF). Environment for Development Initiative.

Zimmermann M B, 2018. The Effect of Lactoferrin and Dosing Regimen on Iron Absorption From a Maize-based Porridge in Kenyan Infants. Cochrane Central Register of Controlled Trials 2019.

Zimmermann M B, Muthayya S, Moretti D, Kurpad A, Hurrell R F, 2006. Iron fortification reduces blood lead levels in children in Bangalore, India. Pediatrics 117, 2014–2021. https://doi.org/10.1542/peds.2005-2440

Zimmermann M B, Wegmueller R, Zeder C, Chaouki N, Rohner F, Saïssi M, Torresani T, Hurrell R F, 2004. Dual fortification of salt with iodine and micronized ferric pyrophosphate: a randomized, double-blind, controlled trial. American Journal of Clinical Nutrition 80, 952–959. https://doi.org/10.1093/ajcn/80.4.952

Zimmermann Michael B, Biebinger Ralf, Rohner Fabian, Dib Abdeljawad, Zeder Christophe, Hurrell Richard F, Chaouki Nourredine, 2006a. Vitamin A supplementation in children with poor vitamin A and iron status increases erythropoietin and hemoglobin concentrations without changing total body iron. American Journal of Clinical Nutrition 84, 580–586. https://doi.org/10.1093/ajcn/84.3.580

Zimmermann Michael B, Connolly Kevin, Bozo Maksim, Bridson John, Rohner Fabian, Grimci Lindita, 2006b. Iodine supplementation improves cognition in iodine-deficient schoolchildren in Albania: a randomized, controlled, double-blind study. American Journal of Clinical Nutrtion 83, 108–114. https://doi.org/10.1093/ajcn/83.1.108

Zimmermann Michael B, Winichagoon Pattanee, Gowachirapant Sueppong, Hess Sonja Y, Harrington Mary, Chavasit Visith, Lynch Sean R, Hurrell Richard F, 2005. Comparison of the efficacy of wheat-based snacks fortified with ferrous sulfate, electrolytic iron, or hydrogen-reduced elemental iron: randomized, double-blind, controlled trial in Thai women. American Journal of Clinical Nutrition 82, 1276–1282. https://doi.org/10.1093/ajcn/82.6.1276

Zingiro Ariane, Okello Julius Juma, Guthiga Paul Maina, 2014. Assessment Of Adoption And Impact Of Rainwater Harvesting Technologies On Rural Farm Household Income: The Case Of Rainwater Harvesting Ponds In Rwanda. Environment, Development, and Sustainability 16, 1281–1298. https://doi.org/10.1007/s10668-014-9527-8

Zlotkin S, Antwi K Y, Schauer C, Yeung G, 2003. Use of microencapsulated iron(II) fumarate sprinkles to prevent recurrence of anaemia in infants and young children at high risk. Bulletin of the World Health Organization 81, 108–15.

Zou WenBo, Lybbert T, Vosti S, Abbeddou S, 2020. Early childhood nutrition, parental growth perceptions and educational aspirations in rural Burkina Faso. Journal of Development Studies 56, 798–816. https://doi.org/10.1080/00220388.2019.1605056

Included systematic reviews

Aamer Imdad, Bhutta Z A, 2011. Effect of preventive zinc supplementation on linear growth in children under 5 years of age in developing countries: a meta-analysis of studies for input to the lives saved tool. Special Issue: Technical inputs, enhancements and applications of the Lives Saved Tool (LiST). 11, 14. https://doi.org/10.1186/1471-2458-11-S3-S22

Aaron G J, Dror D K, Yang Z, 2015. Multiple-Micronutrient Fortified Non-Dairy Beverage Interventions Reduce the Risk of Anemia and Iron Deficiency in School-Aged Children in Low-Middle Income Countries: A Systematic Review and Meta-Analysis(i-iv). Nutrients 7, 3847–3868. https://doi.org/10.3390/nu7053847

Adom T, de Villiers A, Puoane T, Kengne A P, 2020. School-based interventions targeting nutrition and physical activity, and body weight status of African children: a systematic review. Nutrients 12, 95.

Allen L H, Peerson J M, Olney D K, 2009. Provision of multiple rather than two or fewer micronutrients more effectively improves growth and other outcomes in micronutrient-deficient children and adults. Journal of Nutrition 139, 1022–1030. https://doi.org/10.3945/jn.107.086199

Alves C, Saleh A, Alaofè H, 2019. Iron-containing cookware for the reduction of iron deficiency anemia among children and females of reproductive age in low- and middle-income countries: a systematic review. PLoS ONE 14, e0221094–e0221094.

An Ruopeng, Nickols-Richardson Sharon M, Khan Naiman, Liu Jianxiu, Liu Ruidong, Clarke Caitlin, 2019. Impact of Beef and Beef Product Intake on Cognition in Children and Young Adults: A Systematic Review. Nutrients 11. https://doi.org/10.3390/nu11081797

Andrade J, Lotton J, Andrade J, 2018. Systematic review: frameworks used in school-based interventions, the impact on Hispanic children's obesity-related outcomes. Journal of School Health 88, 847–858. https://doi.org/10.1111/josh.12693

Athe R, Dwivedi R, Pati S, Mazumder A, Banset U, 2020. Meta-analysis approach on iron fortification and its effect on pregnancy and its outcome through randomized, controlled trials. Journal of family medicine and primary care 9, 513–519. https://doi.org/10.4103/jfmpc.jfmpc_817_19

Balhara K S, Silvestri D M, Winders W T, Selvam A, Kivlehan S M, Becker T K, Levine A C, 2017. Impact of nutrition interventions on pediatric mortality and nutrition outcomes in humanitarian emergencies: a systematic review. Tropical Medicine and International Health 22, 1464–1492. https://doi.org/10.1111/tmi.12986

Bassani D G, Arora P, Wazny K, Gaffey M F, Lenters L, Bhutta Z A, 2013. Financial incentives and coverage of child health interventions: a systematic review and meta-analysis. BMC Public Health 13. https://doi.org/10.1186/1471-2458-13-S3-S30

Berti Peter R, Krasevec Julia, Fitzgerald Sian, 2004. A review of the effectiveness of agriculture interventions in improving nutrition outcomes. Public Health Nutrition 7, 599–609. https://doi.org/10.1079/PHN2003595

Best C, Neufingerl N, Del Rosso J M, Transler C, van den Briel T, Osendarp S, 2011. Can multi-micronutrient food fortification improve the micronutrient status, growth, health, and cognition of schoolchildren? A systematic review. Nutrition Reviews 69, 186–204. https://doi.org/10.1111/j.1753-4887.2011.00378.x

Bhutta Zulfiqar A, Imdad Aamer, Ramakrishnan Usha, Martorell Reynaldo, 2012. Is it time to replace iron folate supplements in pregnancy with multiple micronutrients? Paediatric and perinatal epidemiology 26, 27–35. https://doi.org/10.1111/j.1365-3016.2012.01313.x

Bird Frances A, Pradhan Aliza, Bhavani R V, Dangour Alan D, 2019. Interventions in agriculture for nutrition outcomes: a systematic review focused on South Asia. Food Policy 82, 39–49. https://doi.org/10.1016/j.foodpol.2018.10.015

Blackmore Ivy, Lesorogol Carolyn, Iannotti Lora, 2018. Small livestock and aquaculture programming impacts on household livelihood security: a systematic narrative review. Journal of Development Effectiveness 10, 197–248. https://doi.org/10.1080/19439342.2018.1452777

Blencowe H, Cousens S, Modell B, Lawn J, 2010. Folic acid to reduce neonatal mortality from neural tube disorders. International Journal of Epidemiology 39, i110–i121. https://doi.org/10.1093/ije/dyq028

Bodnár Ferko, Piters Bart de Steenhuijsen, 2011. Improving food security: a systematic review of the impact of interventions in agricultural production, value chains, market regulation, and land seucrity (No. 978-90-5328-419- 3 90-5328-419–2), IOB-evaluaties. Ministry of Foreign Affairs of the Netherlands.

Brown Jennifer Valeska Elli, Lin Luling, Embleton Nicholas D, Harding Jane E, McGuire William, 2020. Multi-nutrient fortification of human milk for preterm infants. Cochrane Database of Systematic Reviews 8. https://doi.org/10.1002/14651858.CD000343.pub4

Brown K H, Peerson J M, Baker S K, Hess S Y, 2009. Preventive Zinc Supplementation among Infants, Preschoolers, and Older Prepubertal Children. Food and Nutrition Bulletin 30, S12-40. https://doi.org/10.1177/15648265090301S103

Brown Kenneth H, Peerson Janet M, Rivera Juan, Allen Lindsay H, 2002. Effect of supplemental zinc on the growth and serum zinc concentrations of prepubertal children: a meta-analysis of randomized controlled trials. American Journal of Clinical Nutrition 75, 1062–1071. https://doi.org/10.1093/ajcn/75.6.1062

Chaffee Benjamin W, King Janet C, 2012. Effect of zinc supplementation on pregnancy and infant outcomes: a systematic review. Paediatric and perinatal epidemiology 26, 118–137. https://doi.org/10.1111/j.1365-3016.2012.01289.x

Chakhtoura Marlene, El-Ghandour Sara, Shawwa Khaled, Akl Elie A, Arabi Asma, Mahfoud Ziyad, Habib Robert, Hoballah Hassan, Fuleihan Ghada El Hajj, 2017. Vitamin D replacement in children, adolescents and pregnant women in the Middle East and North Africa: a systematic review and meta-analysis of randomized controlled trials. Metabolism, Clinical and Experimental 70, 160–176. https://doi.org/10.1016/j.metabol.2017.02.009

Cole Shawn, Bastian Gautan Gustav, Vyas Sangita, Wendel Carina, Stein Daniel, 2012. The Effectiveness Of Index-Based Micro-Insurance In Helping Smallholders Manage Weather-Related Risks. EPPI-Centre Not applicable, Not applicable.

Cordon A, Asturias G, De Vries T, Rohloff P, 2019. Advancing child nutrition science in the scaling up nutrition era: A systematic scoping review of stunting research in Guatemala. BMJ Paediatrics Open 3.

Das J K, Hoodbhoy Z, Salam R A, Bhutta A Z, Valenzuela-Rubio N G, Prinzo Z W, Bhutta Z A, 2018. Lipid-based nutrient supplements for maternal, birth, and infant developmental outcomes. Cochrane Database of Systematic Reviews 8, CD012610. https://doi.org/10.1002/14651858.CD012610.pub2

Das J K, Salam R A, Hadi Y B, Sheikh S S, Bhutta A Z, Prinzo Z W, Bhutta Z A, 2019. Provision of preventive lipid-based nutrient supplements given with complementary foods to infants and young children 6 to 23 months of age for health, nutrition, and developmental outcomes. The Cochrane Database of Systematic Reviews 2019, 15. https://doi.org/10.1002/14651858.CD012611.pub3

Das J K, Salam R A, Kumar R, Bhutta Z A, 2013. Micronutrient fortification of food and its impact on woman and child health: a systematic review. Systematic reviews 2, 67. https://doi.org/10.1186/2046-4053-2-67

de Gier B, Ponce M C, van de Bor M, Doak C M, Polman K, 2014. Helminth infections and micronutrients in school-age children: a systematic review and meta-analysis. American Journal of Clinical Nutrition 99, 1499–1509. https://doi.org/10.3945/ajcn.113.069955

De-Regil L M, Jefferds M E D, Pena-Rosas J P, 2017. Point-of-use fortification of foods with micronutrient powders containing iron in children of preschool and school-age. The Cochrane database of systematic reviews 11, CD009666. https://doi.org/10.1002/14651858.CD009666.pub2

Dewey Kathryn G, Adu-Afarwuah Seth, 2008. Systematic review of the efficacy and effectiveness of complementary feeding interventions in developing countries. Maternal & Child Nutrition 4, 24–85. https://doi.org/10.1111/j.1740-8709.2007.00124.x

Eaton J C, Rothpletz-Puglia P, Dreker M R, Iannotti L, Lutter C, Kaganda J, Rayco-Solon P, 2019. Effectiveness of provision of animal-source foods for supporting optimal growth and development in children 6 to 59 months of age. The Cochrane database of systematic reviews 2, CD012818–CD012818.

Eichler K, Hess S, Twerenbold C, Sabatier M, Meier F, Wieser S, 2019. Health effects of micronutrient fortified dairy products and cereal food for children and adolescents: A systematic review. PloS one 14. https://doi.org/10.1371/journal.pone.0210899

Eichler K, Wieser S, Rüthemann I, Brügger U, 2012. Effects of micronutrient fortified milk and cereal food for infants and children: a systematic review. BMC Public Health 12, 506–506. https://doi.org/10.1186/1471-2458-12-506

Eilander J H. C, 2009. Micronutrients, omega-3 fatty acids and cognitive performance in Indian schoolchildren. Micronutrients, omega-3 fatty acids and cognitive performance in Indian schoolchildren 176-pp. https://doi.org/10.3945/ajcn.2008.26993

Eisenberg C M, Sanchez-Romero L M, Rivera-Dommarco J A, Holub C K, Arredondo E M, Elder J P, Barquera S, 2013. Interventions to increase physical activity and healthy eating among overweight and obese children in Mexico. Interventions for preventing obesity in Latin American populations. 55, S441–S446.

Els A, Walsh C, 2013. The impact of preschool feeding programmes on the growth of disadvantaged young children in developing countries: a systematic review of randomised trials. SAJCN - South African Journal of Clinical Nutrition 26, 33–40. https://doi.org/10.1080/16070658.2013.11734448

Evans L, Cherrett N, Pemsl D, 2011. Assessing the impact of fisheries co-management interventions in developing countries: a meta-analysis. Journal of environmental management 92, 1938–49. https://doi.org/10.1016/j.jenvman.2011.03.010

Feng L, Wei D M, Lin S T, Maddison R, Ni Mhurchu C, Jiang Y, Gao Y, Wang H J, 2017. Systematic review and meta-analysis of school-based obesity interventions in mainland China. Plos One 12, e0184704. https://doi.org/10.1371/journal

Fernández-Gaxiola Ana C, De-Regil Luz Maria, 2019. Intermittent iron supplementation for reducing anaemia and its associated impairments in adolescent and adult menstruating women. Cochrane Database of Systematic Reviews 2019. https://doi.org/10.1002/14651858.CD009218.pub3

Finkelstein J L, Fothergill A, Hackl L S, Haas J D, Mehta S, 2019. Iron biofortification interventions to improve iron status and functional outcomes. The Proceedings of the Nutrition Society 78, 197–207. https://doi.org/10.1017/S0029665118002847

Freeman P A, Schleiff M, Sacks E, Rassekh B M, Sundeep Gupta, Perry H B, 2017. Comprehensive review of the evidence regarding the effectiveness of community-based primary health care in improving maternal, neonatal and child health: 4. child health findings. Journal of Global Health 7, 010904. https://doi.org/10.7189/jogh.07.010904

Gaihre Santos, Kyle Janet, Semple Sean, Smith Jo, Subedi Madhu, Marais Debbi, 2016. Type and extent of trans-disciplinary co-operation to improve food security, health and household environment in low and middle income countries: systematic review. BMC Public Health 16. https://doi.org/10.1186/s12889-016-3731-4

Gallegos Danielle, Tadesse Kidane, Mulugeta Afework, Zelenko Oksana, 2018. Effectiveness of breastfeeding interventions delivered to fathers in low- and middle-income countries: A systematic review. Maternal & Child Nutrition 14, 1–1. https://doi.org/10.1111/mcn.12612

Gao Y, Griffiths S, Chan E Y Y, 2008. Community-based interventions to reduce overweight and obesity in China: a systematic review of the Chinese and English literature. Journal of public health 30, 436–48.

Garbero Alessandra, Marion Pierre, Brailovskaya Valentina, 2018. The impact of the adoption of CGIAR's improved varieties on poverty and welfare outcomes: a systematic review. IFAD.

Garcia-Casal M N, Peña-Rosas J P, Pachón H, De-Regil L M, Centeno T, Tablante E C, Flores-Urrutia M C, 2016. Staple Crops Biofortified With Increased Micronutrient Content: Effects On Vitamin And Mineral Status, As Well As Health And Cognitive Function In The General Population (Protocol). Cochrane Database of Systematic Reviews 2016. https://doi.org/10.1002/14651858.CD012311

Garcia-Casal Maria N, Peña-Rosas Juan P, De-Regil Luz Maria, Gwirtz Jeffrey A, Pasricha Sant-Rayn, 2018. Fortification of maize flour with iron for controlling anaemia and iron deficiency in populations. Cochrane Database of Systematic Reviews. https://doi.org/10.1002/14651858.CD010187.pub2

Garoma D A, Abraha Y G, Gebrie S A, Deribe F M, Tefera M H, Morankar S, 2017. Impact of conditional cash transfers on child nutritional outcomes among sub-Saharan African countries: a systematic review protocol. JBI database of systematic reviews and implementation reports 15, 2295–2299. https://doi.org/10.11124/JBISRIR-2016-003251

Gavaravarapu S M, Konapur A, Saha S, 2017. Role of education and communication interventions in promoting micronutrient status in India - what research in the last two decades informs. Journal of Communication in Healthcare 10, 238–249. https://doi.org/10.1080/17538068.2017.1338407

Gebreselassie Samson G, Gashe Fikre E, 2011. A systematic review of effect of prenatal zinc supplementation on birthweight: meta-analysis of 17 randomized controlled trials. Journal of Health, Population and Nutrition 29, 134–140.

Geerligs P D P, Brabin B J, Omari A A. A, 2003. Food prepared in iron cooking pots as an intervention for reducing iron deficiency anaemia in developing countries: a systematic review. Journal of Human Nutrition & Dietetics 16, 275–281. https://doi.org/10.1046/j.1365-277X.2003.00447.x

Gera T, Sachdev H P. S, Nestel P, Sachdev S S, 2007. Effect of iron supplementation on haemoglobin response in children: systematic review of randomised controlled trials. Journal of Pediatric Gastroenterology and Nutrition 44, 468–486. https://doi.org/10.1097/01.mpg.0000243440.85452.38

Gera Tarun, Shah Dheeraj, Garner Paul, Richardson Marty, Sachdev Harshpal S, 2016. Integrated management of childhood illness (IMCI) strategy for children under five. The Cochrane database of systematic reviews 22. https://doi.org/10.1002/14651858.CD010123.pub2

Gera Tarun, Shah Dheeraj, Sachdev Harshpal Singh, 2019. Zinc Supplementation for Promoting Growth in Children Under 5 years of age in Low- and Middle-income Countries: A Systematic Review. [Comment in: Indian Pediatr. 2019 May 15;56(5):363-364; PMID: 31102376 [https://www.ncbi.nlm.nih.gov/pubmed/31102376]] 56, 391–406.

Gera Tarun, Singh Sachdev Harshpal, Boy Erick, 2012. Effect of iron-fortified foods on hematologic and biological outcomes: systematic review of randomized controlled trials. American Journal of Clinical Nutrition 96, 309–324. https://doi.org/10.3945/ajcn.111.031500

Ghasemi V, Simbar M, Banaei M, Naz M S G, Jahani Z, Nazem H, 2019. The effect of interventions on breastfeeding self-efficacy by using Bandura's theory in Iranian mothers: a systematic review. International Journal of Pediatrics 7, 9939–9954.

Gilmore B, McAuliffe E, 2013. Effectiveness of community health workers delivering preventive interventions for maternal and child health in low- and middle-income countries: a systematic review. BMC public health 13, 847. https://doi.org/10.1186/1471-2458-13-847

Girard Amy Webb, Self Julie L, McAuliffe Corey, Olude Olafunke, 2012. The Effects Of Household Food Production Strategies On The Health And Nutrition Outcomes Of Women And Young Children: A Systematic Review. Paediatric and Perinatal Epidemiology 26, 205–222. https://doi.org/10.1111/j.1365-3016.2012.01282.x

Giugliani Elsa R J, Horta Bernardo L, Loret de Mola, C., Lisboa Bernardo O, Victora Cesar G, 2015. Effect of breastfeeding promotion interventions on child growth: a systematic review and meta-analysis. Acta paediatrica (Oslo, Norway : 1992) 104, 20–29. https://doi.org/10.1111/apa.13160

Goudet S M, Bogin B A, Madise N J, Griffiths P L, 2019. Nutritional interventions for preventing stunting in children (Birth to 59 months) living in urban slums in low-and middle-income countries (LMIC). Cochrane Database of Systematic Reviews 2019. https://doi.org/10.1002/14651858.CD011695.pub2

Grantham-McGregor Sally M, Fernald Lia C, Kagawa Rose M, Walker Susan, 2013. Effects of integrated child development and nutrition interventions on child development and nutritional status. Annals of the New York Academy of Sciences 11–32. https://doi.org/10.1111/nyas.12284

Graziose Matthew M, Downs Shauna M, O'Brien Quentin, Fanzo Jessica, 2018. Systematic review of the design, implementation and effectiveness of mass media and nutrition education interventions for infant and young child feeding. Public Health Nutrition 21, 273–287. https://doi.org/10.1017/S1368980017002786

Gunaratna N S, De Groote H, Nestel P, Pixley K V, McCabe G P, 2010. A Meta-analysis of Community-Based Studies on Quality Protein Maize. Food Policy 35, 202–10. https://doi.org/10.1016/j.foodpol.2009.11.003

Haider Batool Azra, Yakoob Mohammad Yawar, Bhutta Zulfiqar A, 2011. Effect of multiple micronutrient supplementation during pregnancy on maternal and birth outcomes. Special Issue: Technical inputs, enhancements and applications of the Lives Saved Tool (LiST). 11. https://doi.org/10.1186/1471-2458-11-S3-S19

Halim Nafisa, Spielman Kathryn, Larson Bruce, 2015. The economic consequences of selected maternal and early childhood nutrition interventions in low- and middle-income countries: a review of the literature, 2000-2013. BMC women's health 15, 33. https://doi.org/10.1186/s12905-015-0189-y

Hall J, 2011. Effective community-based interventions to improve exclusive breast feeding at four to six months in low- and low–middle-income countries: a systematic review of randomised controlled trials. Midwifery 27, 497–502. https://doi.org/10.1016/j.midw.2010.03.011

Harding K, Peña-Rosas J P, Webster A, Yap C, Payne B, Ota E, De-Regil L, 2017. Iodine supplementation for women during the preconception, pregnancy and postpartum period. Cochrane Database of Systematic Reviews 2017, 138. https://doi.org/10.1002/14651858.CD011761.pub2

Haroon S, Das J K, Salam R A, Imdad A, Bhutta Z A, 2013. Breastfeeding promotion interventions and breastfeeding practices: a systematic review. Special Issue: The Lives Saved Tool in 2013: New capabilities and applications. 13, S20. https://doi.org/10.1186/1471-2458-13-S3-S20

Hemming David J, Chirwa Ephraim W, Dorward Andrew, Ruffhead Holly J, Hill Rachel, Osborn Janice, Langer Laurenz, Harman Luke, Asaoka Hiro, Coffey Chris, Phillips Daniel, 2018. Agricultural input subsidies for improving productivity, farm income, consumer welfare and wider growth in low- and lower-middle-income countries: a systematic review. Campbell Systematic Reviews 14, 1–153. https://doi.org/10.4073/csr.2018.4

Hess S, Tecklenburg L, Eichler K, 2016. Micronutrient Fortified Condiments and Noodles to Reduce Anemia in Children and Adults—A Literature Review and Meta-Analysis. Nutrients 8, 88. https://doi.org/10.3390/nu8020088

Hidrobo M, Hoddinott J, Kumar N, Olivier M, 2018. Social Protection, Food Security, and Asset Formation. World Development 101, 88–103. https://doi.org/10.1016/j.worlddev.2017.08.014

Hofmeyr G J, Roodt A, Atallah A N, Duley L, 2003. Calcium supplementation to prevent preeclampsia - a systematic review. South African Medical Journal 93, 224–228.
Hofmeyr G Justus, Manyame Sarah, Medley Nancy, Williams Myfanwy J, 2019. Calcium supplementation commencing before or early in pregnancy, for preventing hypertensive disorders of pregnancy. Cochraine Database of Systematic Reviews 9. https://doi.org/10.1002/14651858.CD011192.pub3
Hombali A S, Solon J A, Venkatesh B T, Nair N S, Peña-Rosas J P, 2019. Fortification of staple foods with vitamin A for vitamin A deficiency. The Cochrane database of systematic reviews 5.
Hossain Muttaquina, Choudhury Nuzhat, Abdullah Khaleda Adib Binte, Mondal Prasenjit, Jackson Alan A, Walson Judd, Ahmed Tahmeed, 2017. Evidence-based approaches to childhood stunting in low and middle income countries: a systematic review. Archives of diseases in childhood 102, 903–909. https://doi.org/10.1136/archdischild-2016-311050
Imdad A, Mayo-Wilson E, Herzer K, Bhutta Z A, 2017. Vitamin A supplementation for preventing morbidity and mortality in children from six months to five years of age. Cochrane Database of Systematic Reviews 3, CD008524. https://doi.org/10.1002/14651858.CD008524.pub3
Imdad A, Yakoob M Y, Bhutta Z A, 2011. Impact of maternal education about complementary feeding and provision of complementary foods on child growth in developing countries. BMC Public Health 11, 1–14. https://doi.org/10.1186/1471-2458-11-S3-S25
Imdad Aamer, Bhutta Zulfiqar A, 2012. Effects of calcium supplementation during pregnancy on maternal, fetal and birth outcomes. Paediatric and Perinatal Epidemiology 26, 138–152. https://doi.org/10.1111/j.1365-3016.2012.01274.x
Imdad Aamer, Yakoob Mohammad Yawar, Bhutta Zulfiqar A, 2011. Effect of breastfeeding promotion interventions on breastfeeding rates, with special focus on developing countries. BMC Public Health 11. https://doi.org/10.1186/1471-2458-11-S3-S24
Imdad Amer, Bhutta Zulfiqar A, 2012. Maternal Nutrition and Birth Outcomes: Effect of Balanced Protein-Energy Supplementation. Paediatric and perinatal epidemiology 26, 178–190. https://doi.org/10.1111/j.1365-3016.2012.01308.x
Ip Patrick, Ho Frederick Ka Wing, Rao Nirmala, Sun Jin, Young Mary Eming, Chow Chun Bong, Tso Winnie, Hon Kam Lun, 2017. Impact of nutritional supplements on cognitive development of children in developing countries: a meta-analysis. Scientific Reports 7. https://doi.org/10.1038/s41598-017-11023-4
Janmohamed Amynah, Sohani Nazia, Lassi Zohra S, Bhutta Zulfiqar A, 2020. The Effects of Community Home Visit and Peer Group Nutrition Intervention Delivery Platforms on Nutrition Outcomes in Low and Middle-Income Countries: A Systematic Review and Meta-Analysis. Nutrients 12. https://doi.org/10.3390/nu12020440
Jolly Kate, Ingram Lucy, Khan Khalid S, Deeks Jonathan J, Freemantle Nick, MacArthur Christine, 2012. Systematic review of peer support for breastfeeding continuation: metaregression analysis of the effect of setting, intensity, and timing. BMJ (Clinical research ed.) 344, d8287. https://doi.org/10.1136/bmj.d8287
Jomaa Lamis H, McDonnell Elaine, Probart Claudia, 2011. School feeding programs in developing countries: impacts on children's health and educational outcomes. Nutrition Reviews 69, 83–98. https://doi.org/10.1111/j.1753-4887.2010.00369.x
Juillard Hélène, Mohiddin Lili, Péchayre Marion, Smith Gabrielle, Lewin Rebecca, 2017. The Influence Of Market Support Interventions On Household Food Security: An Evidence Synthesis, Oxfam GB. Oxfam, Completed.
Kawai K, Spiegelman D, Shankar A H, Fawzi W W, 2011. Maternal multiple micronutrient supplementation and pregnancy outcomes in developing countries: meta-analysis and meta-regression. Bulletin of the World Health Organization 89, 402–411. https://doi.org/10.2471/BLT.10.083758
Keats E C, Haider B A, Tam E, Bhutta Z A, 2019. Multiple-micronutrient supplementation for women during pregnancy. Cochrane Database of Systematic Reviews. https://doi.org/10.1002/14651858.CD004905.pub6
Khor Geok Lin, Misra Snigdha, 2012. Micronutrient interventions on cognitive performance of children aged 5-15 years in developing countries. Asia Pacific Journal of Clinical Nutrition 21, 476–486.
Knox Jerry, Daccache Andre, Hess Tim, 2013. What Is The Impact Of Infrastructural Investments In Roads, Electricity And Irrigation On Agricultural Productivity? Environmental Evidence.
Kong K, Liu J, Tao Y, 2016. Limitations of studies on school-based nutrition education interventions for obesity in China: a systematic review and meta-analysis. Asia Pacific Journal of Clinical Nutrition 25, 589–601. https://doi.org/10.6133/apjcn.092015.19
Korth Marcel, Stewart Ruth, Langer Laurenz, Madinga Nolizwe, da Silva Natalie R, Zaranyika Hazel, van Rooyen Carina, de Wet Thea, 2014. What are the impacts of urban agriculture programs on food security in low and middle-income countries: A systematic review. Environmental Evidence 3. https://doi.org/10.1186/2047-2382-3-21
Lamstein S, Stillman T, Koniz-Booher P, Aakesson A, Collaiezzi B, Williams T, Beall K, Anson M, 2014. Evidence of Effective Approaches to Social and Behavior Change Communication for Preventing and Reducing Stunting and Anemia. USAID.
Larson L M, Yousafzai A K, 2017. A meta-analysis of nutrition interventions on mental development of children under-two in low- and middle-income countries. Maternal and Child Nutrition 13, e12229. https://doi.org/10.1111/mcn.12229
Lassi Z S, Das J K, Zahid G, Imdad A, Bhutta Z A, 2013. Impact of education and provision of complementary feeding on growth and morbidity in children less than 2 years of age in developing countries: a systematic review. BMC Public Health 13, S3–S13. https://doi.org/10.1186/1471-2458-13-S3-S13

Lassi Z S, Padhani Z A, Rabbani Amna, Rind Fahad, Salam R A, Das J K, Bhutta Z A, 2020. Impact of dietary interventions during pregnancy on maternal, neonatal, and child outcomes in low- and middle-income countries. Nutrients 12. https://doi.org/10.3390/nu12020531

Lassi Zohra S, Rind Fahad, Irfan Omar, Hadi Rabia, Das Jai K, Bhutta Zulfiqar A, 2020. Impact of Infant and Young Child Feeding (IYCF) Nutrition Interventions on Breastfeeding Practices, Growth and Mortality in Low- and Middle-Income Countries: Systematic Review. Nutrients 12. https://doi.org/10.3390/nu12030606

Lawry Steven, Samii Cyrus, Hall Ruth, Leopold Aaron, Hornby Donna, Mtero Farai, 2014. The impact of land property rights interventions on investment and agricultural productivity in developing countries: a systematic review. Campbell Systematic Reviews 10, 1–104. https://doi.org/10.1080/19439342.2016.1160947

Lee S H, Nurmatov U B, Nwaru B I, Mukherjee M, Grant L, Pagliari C, 2016. Effectiveness of mHealth interventions for maternal, newborn and child health in low- and middle-income countries: systematic review and meta-analysis. Journal of Global Health 6, 010401. https://doi.org/10.7189/jogh.06.010401

Li ZhiHui, Li Xinyi, Sudfeld Christopher R, Liu Yuning, Tang Kun, Huang Yangmu, Fawzi Wafaie, 2019. The effect of the yingyangbao complementary food supplement on the nutritional status of infants and children: a systematic review and meta-analysis. Nutrients 11. https://doi.org/10.3390/nu11102404

Liu P, Bhatia R, Pachón H, Emory, 2014. Food Fortification in India: A Literature Review. Indian Journal of Community Health 26, 59–74.

Luo W P, Lu M S, Li Z H, Zhang C X, 2014. Effects of Multimicronutrient Supplementation during Pregnancy on Postnatal Growth of Children under 5 Years of Age: A Meta-Analysis of Randomized Controlled Trials. PLoS One 9. https://doi.org/10.1371/journal.pone.0088496

Majamanda J, Maureen D, Munkhondia T M, Carrier J, 2014. The Effectiveness of Community-Based Nutrition Education on the Nutrition Status of Under-five Children in Developing Countries. A Systematic Review. Malawi medical journal 26, 115–118.

Manley J, Gitter S, Slavchevska V, 2013. How Effective are Cash Transfers at Improving Nutritional Status? World Development 48, 133–155. https://doi.org/10.1016/j.worlddev.2013.03.010

Marshall Simon J, Simoes Eduardo J, Eisenberg Christina M, Holub Christina K, Arredondo Elva M, Barquera Simón, Elder John P, 2013. Weight-related child behavioral interventions in Brazil: A systematic review. American Journal of Preventive Medicine 44, 543–549. https://doi.org/10.1016/j.amepre.2013.01.017

Martin Curran M, MacLehose H, 2002. Community animal health services for improving household wealth and health status of low income farmers. Cochrane Database of Systematic Reviews. https://doi.org/10.1002/14651858.CD003049.pub2

Martins A P. B, Canella D S, Baraldi L G, Monteiro C A, 2013. Cash transfer in Brazil and nutritional outcomes: a systematic review. Revista de Saude Publica 47, 1159–1171. https://doi.org/10.1590/S0034-8910.2013047004557

Masset E, Haddad L, Cornelius A, Isaza-Castro J, 2012. Effectiveness of agricultural interventions that aim to improve nutritional status of children: Systematic review. BMJ (Online) 344, d8222. https://doi.org/10.1136/bmj.d8222

Mayén Ana-Lucia, de Mestral Carlos, Zamora Gerardo, Paccaud Fred, Marques-Vidal Pedro, Bovet Pascal, Stringhini Silvia, 2016. Interventions promoting healthy eating as a tool for reducing social inequalities in diet in low- and middle-income countries: a systematic review. International Journal for Equity in Health 15, 1–10. https://doi.org/10.1186/s12939-016-0489-3

Mayo-Wilson E, Imdad A, Herzer K, Yakoob M Y, Bhutta Z A, 2011. Vitamin A supplements for preventing mortality, illness, and blindness in children aged under 5: systematic review and meta-analysis. BMJ (online) 343, d5094. https://doi.org/10.1136/bmj.d5094

Mayo-Wilson Evan, Junior Jean A, Imdad Aamer, Dean Sohni, Chan Xin Hui S, Chan Evelyn S, Jaswal Aneil, Bhutta Zulfiqar A, 2014. Zinc supplementation for preventing mortality, morbidity, and growth failure in children aged 6 months to 12 years of age. [Comment in: Am Fam Physician. 2015 Jan 1;91(1):27-8; PMID: 25591197 [https://www.ncbi.nlm.nih.gov/pubmed/25591197]]. https://doi.org/10.1002/14651858.CD009384.pub2

McCauley M E, van den Broek N, Dou L, Othman M, 2015. Vitamin A supplementation during pregnancy for maternal and newborn outcomes. Cochrane Database of Systematic Reviews 10. https://doi.org/10.1002/14651858.CD008666.pub2

Mendes A A, Ieker A S D, de Castro T F, Avelar A, Nardo Junior N, 2016. Multidisciplinary programs for obesity treatment in Brazil: a systematic review. Revista de Nutricao 29, 867–884. https://doi.org/10.1590/1678-98652016000600011

Müller Andre Matthias, Alley Stephanie, Schoeppe Stephanie, Vandelanotte Corneel, 2016. The effectiveness of e-& mHealth interventions to promote physical activity and healthy diets in developing countries: A systematic review. International Journal of Behavioral Nutrition & Physical Activity 13, 1–14. https://doi.org/10.1186/s12966-016-0434-2

Muthuri Stella Kagwiria, Oti Samuel Oji, Lilford Richard James, Oyebode Oyinlola, 2016. Salt reduction interventions in sub-Saharan Africa: a systematic review. PLoS ONE 11, e0149680. https://doi.org/10.1371/journal.pone.0149680

Mutwiri Linet N, Kyallo Florence, Kiage Beatrice, Van der Schueren Bart, Matthys Christophe, 2020. Can Improved Legume Varieties Optimize Iron Status in Low- and Middle-Income Countries? A Systematic Review. Advances in nutrition (Bethesda, Md.) 00, 1–10. https://doi.org/10.1093/advances/nmaa038

Nakhimovsky Sharon S, Feigl Andrea B, Avila Carlos, O'Sullivan Gael, Macgregor-Skinner Elizabeth, Spranca Mark, 2016. Taxes on Sugar-Sweetened Beverages to Reduce Overweight and Obesity in Middle-Income Countries: A Systematic Review. PLoS ONE 11, 1–22. https://doi.org/10.1371/journal.pone.0163358

Nieuwoudt Sara Jewett, Ngandu Christian B, Manderson Lenore, Norris Shane A, 2019. Exclusive breastfeeding policy, practice and influences in South Africa, 1980 to 2018: A mixed-methods systematic review. PloS one 14, e0224029. https://doi.org/10.1371/journal.pone.0224029

Nikooyeh Bahareh, Neyestani Tirang R, 2018. Efficacy of Food Fortification with Vitamin D in Iranian Adults: A Systematic Review and Meta-Analysis. Nutrition & Food Sciences Research 5, 1–6. https://doi.org/10.29252/nfsr.5.4.1

Oh C, Keats E C, Bhutta Z A, 2020. Vitamin and mineral supplementation during pregnancy on maternal, birth, child health and development outcomes in low- and middle-income countries: a systematic review and meta-analysis. Nutrients 12, 491. https://doi.org/10.3390/nu12020491

Olufunlayo Tolulope Florence, Roberts Alero Ann, MacArthur Christine, Thomas Neil, Odeyemi Kofoworola Abimbola, Price Malcolm, Jolly Kate, 2019. Improving exclusive breastfeeding in low and middle-income countries: A systematic review. Maternal & Child Nutrition 15, e12788. https://doi.org/10.1111/mcn.12788

Ota E, Hori H, Mori R, Tobe-Gai R, Farrar D, 2015a. Antenatal dietary education and supplementation to increase energy and protein intake Cochrane Database of Systematic Reviews. https://doi.org/10.1002/14651858.CD000032.pub3

Ota E, Mori R, Middleton P, Tobe-Gai R, Mahomed K, Miyazaki C, Bhutta Z A, 2015b. Zinc supplementation for improving pregnancy and infant outcome. Cochrane Database Syst Rev. Cochrane Database Syst Rev. https://doi.org/10.1002/14651858.CD000230.pub5

Owusu-Addo E, Renzaho A M. N, Smith B J, 2018. The impact of cash transfers on social determinants of health and health inequalities in sub-Saharan Africa: a systematic review. Health Policy and Planning 33, 675–696. https://doi.org/10.1093/heapol/czy020

Oya Carlos, Schaefer Florian, Skalidou Dafni, McCosker Catherine, Langer Laurenz, 2017. Effects Of Certification Schemes For Agricultural Production On Socio-Economic Outcomes In Low- And Middle-Income Countries (Review). Campbell systematic review. https://doi.org/10.4073/csr.2017.3

Palacios Cristina, Kostiuk Lia K, Peña-Rosa Juan Pablo, 2019. Vitamin D supplementation for women during pregnancy. The Cochrane database of systematic reviews. Cochrane Database of Systematic Reviews. https://doi.org/10.1002/14651858.CD008873.pub4

Panjwani A, Heidkamp R, 2017. Complementary Feeding Interventions Have a Small but Significant Impact on Linear and Ponderal Growth of Children in Low- and Middle-Income Countries: A Systematic Review and Meta-Analysis. The Journal of nutrition 147, 2169S-2178S. https://doi.org/10.3945/jn.116.243857

Park Jay J H, Fang Mei Lan, Harari Ofir, Dron Louis, Siden Ellie G, Majzoub Reham, Jeziorska Virginia, Thorlund Kristian, Mills Edward J, Bhutta Zulfiqar A, 2019a. Association of Early Interventions With Birth Outcomes and Child Linear Growth in Low-Income and Middle-Income Countries: Bayesian Network Meta-analyses of Randomized Clinical Trials. JAMA network open 2. https://doi.org/10.1001/jamanetworkopen.2019.7871

Park Jay J H, Harari Ofir, Siden Ellie, Dron Louis, Zannat Noor-E, Singer Joel, Lester Richard T, Thorlund Kristian, Mills Edward J, 2019b. Interventions to improve linear growth during complementary feeding period for children aged 6-24 months living in low- and middle-income countries: a systematic review and network meta-analysis. Gates open research 3, 1660. https://doi.org/10.12688/gatesopenres.13083.1

Pasricha S R, Hayes E, Kalumba K, Biggs B A, 2013. Effect of daily iron supplementation on health in children aged 4-23 months: a systematic review and meta-analysis of randomised controlled trials. Lancet Glob Health 1, e77-86.

Pedraza D F, Sales M C, 2017. Brazilian studies on zinc deficiency and supplementation: emphasis on children. Revista Brasileira de Saude Materno Infantil 17, 217–232. https://doi.org/10.1590/1806-93042017000200002

Peña-Rosas J P, De-Regil L M, Gomez Malave H, Flores-Urrutia M C, Dowswell T, 2015. Intermittent oral iron supplementation during pregnancy. Cochrane Database of Systematic Reviews. https://doi.org/10.1002/14651858.CD009997.pub2

Pena-Rosas J P, Prasanna Mithra, Bhaskaran Unnikrishnan, Nithin Kumar, De-Regil L M, Nair N S, Garcia-Casal M N, Solon J A, 2019. Fortification of rice with vitamins and minerals for addressing micronutrient malnutrition. Cochrane Database of Systematic Reviews CD009902. https://doi.org/10.1002/14651858.CD009902.pub2

Pérez-Expósito Ana B, Klein Barbara P, 2009. Impact of fortified blended food aid products on nutritional status of infants and young children in developing countries. Nutrition Reviews 67, 706–718. https://doi.org/10.1111/j.1753-4887.2009.00255.x

Pimpin L, Kranz S, Liu E, Shulkin M, Karageorgou D, Miller V, Fawzi W, Duggan C, Webb P, Mozaffarian D, 2019. Effects of animal protein supplementation of mothers, preterm infants, and term infants on growth outcomes in childhood: a systematic review and meta-analysis of randomized trials. American Journal of Clinical Nutrition 110, 410–429. https://doi.org/10.1093/ajcn/nqy348

Pratt O, 2015. A review of the strategies used to reduce the prevalence of iron deficiency and iron deficiency anaemia in infants aged 6-36 months. Nutrition Bulletin 40, 257–267. https://doi.org/10.1111/nbu.12170

Ramakrishnan U, Grant F K, Goldenberg T, Bui V, Imdad A, Bhutta Z A, 2012. Effect of multiple micronutrient supplementation on pregnancy and infant outcomes: a systematic review. Paediatric Perinatal Epidemiology 26, 153–67. https://doi.org/10.1111/j.1365-3016.2012.01276.x

Ramakrishnan U, Nguyen P, Martorell R, 2009. Effects of micronutrients on growth of children under 5 y of age: meta-analyses of single and multiple nutrient interventions. The American Journal of Clinical Nutrition 89, 191–203. https://doi.org/10.3945/ajcn.2008.26862

Ramakrishnan Usha, Aburto Nancy, McCabe George, Martorell Reynaldo, 2004. Multimicronutrient Interventions but Not Vitamin A or Iron Interventions Alone Improve Child Growth: Results of 3 Meta-Analyses. Journal of Nutrition 134, 2592–2602. https://doi.org/10.1093/jn/134.10.2592

Ramírez-Luzuriaga María J, Larson Leila M, Mannar Venkatesh, Martorell Reynaldo, 2018. Impact of Double-Fortified Salt with Iron and Iodine on Hemoglobin, Anemia, and Iron Deficiency Anemia: A Systematic Review and Meta-Analysis. Advances in nutrition 9, 207–218. https://doi.org/10.1093/advances/nmy008

Roberts Joseph L, Stein Aryeh D, 2017. The Impact of Nutritional Interventions beyond the First 2 Years of Life on Linear Growth: A Systematic Review and Meta-Analysis. Advanced Nutrition 8, 323–36. https://doi.org/10.3945/an.116.013938

Roth Daniel E, Leung Michael, Mesfin Elnathan, Qamar Huma, Watterworth Jessica, Papp Eszter, 2017. Vitamin D supplementation during pregnancy: state of the evidence from a systematic review of randomised trials. BMJ. https://doi.org/10.1136/bmj.j5237

Ruel Marie T, Quisumbing Agnes R, Balagamwala Mysbah, 2018. Nutrition-sensitive agriculture: What have we learned so far? Global Food Security 17, 128–153. https://doi.org/10.1016/j.gfs.2018.01.002

Rumbold Alice, Ota Erica, Nagata Chie, Shahrook Sadequa, Crowther Caroline A, 2015. Vitamin C supplementation in pregnancy. Cochrane Database of systematic review. https://doi.org/10.1002/14651858.CD004072.pub3

Sachdev H, Gera T, Nestel P, 2006. Effect of iron supplementation on physical growth in children: systematic review of randomised controlled trials. Public Health Nutrition 9, 904–20. https://doi.org/10.1017/phn2005918

Salam R A, Das J K, Ahmed W, Irfan O, Sheikh S S, Bhutta Z A, 2020. Effects of preventive nutrition interventions among adolescents on health and nutritional status in low- and middle-income countries: a systematic review and meta-analysis. Nutrients 12, 22. https://doi.org/10.3390/nu12010049

Salam R A, Macphail C, Das J K, Bhutta Z A, 2013. Effectiveness of Micronutrient Powders (MNP) in women and children. BMC Public Health 13. https://doi.org/10.1186/1471-2458-13-S3-S22

Salam Rehana A, Hooda Mehar, Das Jai K, Arshad Ahmed, Lassi Zohra S., M.P., Bhutta Zulfiqar A, 2016. Interventions to Improve Adolescent Nutrition: A Systematic Review and Meta-Analysis. Journal of adolescent health 59, S29–S39.

Saronga N J, Burrows T, Collins C E, Ashman A M, Rollo M E, 2019. mHealth interventions targeting pregnancy intakes in low and lower-middle income countries: systematic review. Maternal and Child Nutrition 15, e12777. https://doi.org/10.1111/mcn.12777

Sguassero Y, de Onis M, Bonotti A M, Carroli G, 2012. Community-based supplementary feeding for promoting the growth of children under five years of age in low and middle income countries. Cochrane Database of Systematic Reviews 84. https://doi.org/10.1002/14651858.cd005039.pub3

Shah D, Sachdev H S, Gera T, De-Regil L M, Peña-Rosas J P, 2016. Fortification of staple foods with zinc for improving zinc status and other health outcomes in the general population. Cochrane Database of Systematic Reviews. https://doi.org/10.1002/14651858.CD010697.pub2

Shah P S, Ohlsson A, 2009. Effects of prenatal multimicronutrient supplementation on pregnancy outcomes: a meta-analysis. Canadian Medical Association Journal 180.

Shapiro M J, Downs S M, Swartz H J, Parker M, Quelhas D, Kreis K, Kraemer K, West K P. Jr, Fanzo J, 2019. A systematic review investigating the relation between animal-source food consumption and stunting in children aged 6-60 months in low and middle-income countries. Advances in Nutrition 10, 827–847. https://doi.org/10.1093/advances/nmz018

Shi L, Zhang J, 2010. Recent Evidence of the Effectiveness of Educational Interventions for Improving Complementary Feeding Practices in Developing Countries. Journal of Tropical Pediatrics 57. https://doi.org/10.1093/tropej/fmq053

Siddhartha Gogia, Sachdev H S, 2010. Home visits by community health workers to prevent neonatal deaths in developing countries: a systematic review. Bulletin of the World Health Organization 88, 658–666. https://doi.org/10.2471/BLT.09.069369

Sinha Bireshwar, Chowdhury Ranadip, Upadhyay Ravi Prakash, Taneja Sunita, Martines Jose, Bahl Rajiv, Sankar Mari Jeeva, 2017. Integrated Interventions Delivered in Health Systems, Home, and Community Have the Highest Impact on Breastfeeding Outcomes in Low- and Middle-Income Countries. Journal of nutrition 147, 2179S-2187S. https://doi.org/10.3945/jn.116.242321

Sloan Nancy L, Jordan Elizabeth, Winikoff Beverly, 2002. Effects of iron supplementation on maternal hematologic status in pregnancy. American journal of public health 92, 288–293. https://doi.org/10.2105/ajph.92.2.288

Smith E R, Shankar A H, Wu L S, Aboud S, Adu-Afarwuah S, Ali H, Agustina R, Arifeen S, Ashorn P, Bhutta Z A, Christian P, Devakumar D, Dewey K G, Friis H, Gomo E, Gupta P, Kæstel P, Kolsteren P, Lanou H, Maleta K, Mamadoultaibou A, Msamanga G, Osrin D, Persson L Å, Ramakrishnan U, Rivera J A, Rizvi A, Sachdev H P S, Urassa W, West K P, Zagre N, Zeng L, Zhu Z, Fawzi W W, Sudfeld C R, 2017. Modifiers of the effect of maternal multiple micronutrient supplementation on stillbirth, birth outcomes, and infant mortality: a meta-analysis of individual patient data from 17 randomised trials in low-income and middle-income countries. Lancet Global Health 5, e1090–e1100. https://doi.org/10.1016/S2214-109X(17)30371-6

Stevens B, Buettner P, Watt K, Clough A, Brimblecombe J, Judd J, 2015. The effect of balanced protein energy supplementation in undernourished pregnant women and child physical growth in low- and middle-income countries: a systematic review and meta-analysis. Maternal and Child Nutrition 11, 415–432. https://doi.org/10.1111/mcn.12183

Stewart Ruth, Langer Laurenz, Da Silva Natalie Rebelo, Muchiri Evans, Zaranyika Hazel, Erasmus Yvonne, Randall Nicola, Rafferty Shannon, Korth Marcel, Madinga Nolizwe, de Wet Thea, 2015. The Effects Of Training, Innovation And New Technology On African Smallholder Farmers' Economic Outcomes And Food Security: A Systematic Review. Campbell collaboration 11. https://doi.org/10.4073/csr.2015.16

Suchdev P S, Jefferds M E. D, Ota E, da Silva Lopes K, De-Regil L M, 2020. Home fortification of foods with multiple micronutrient powders for health and nutrition in children under two years of age. The Cochrane database of systematic reviews. https://doi.org/10.1002/14651858.CD008959.pub3

Suchdev P S, Peña-Rosas J P, De-Regil L M, 2015. Multiple micronutrient powders for home (point-of-use) fortification of foods in pregnant women. Cochrane Database of Systematic Reviews. https://doi.org/10.1002/14651858.CD011158.pub2

Sudfeld C R, Fawzi W W, Lahariya C, 2012. Peer Support and Exclusive Breastfeeding Duration in Low and Middle-Income Countries: A Systematic Review and Meta-Analysis. PLoS ONE 7. https://doi.org/10.1371/journal.pone.0045143

Sunguya Bruno F, Poudel Krishna C, Mlunde Linda B, Shakya Prakash, Urassa David P, Jimba Masamine, Yasuoka Junko, 2013. Effectiveness of nutrition training of health workers toward improving caregivers' feeding practices for children aged six months to two years: a systematic review. Nutrition Journal 12. https://doi.org/10.1186/1475-2891-12-66

Tablante Elizabeth Centeno, Pachón Helena, Guetterman Heather M, Finkelstein Julia L, 2019. Fortification of wheat and maize flour with folic acid for population health outcomes. Cochrane Database of Systematic Reviews. https://doi.org/10.1002/14651858.CD012150.pub2

Tam E, Keats E C, Rind F, Das J K, Bhutta Z A, 2020. Micronutrient Supplementation and Fortification Interventions on Health and Development Outcomes among Children Under-Five in Low- and Middle-Income Countries: A Systematic Review and Meta-Analysis. Nutrients 12, 30. https://doi.org/10.3390/nu12020289

Thorne-Lyman A L, Fawzi W W, 2012. Vitamin A and carotenoids during pregnancy and maternal, neonatal and infant health outcomes: a systematic review and meta-analysis. Paediatric and Perinatal Epidemiology 26, 36–54. https://doi.org/10.1111/j.1365-3016.2012.01284.x

Ton Giel, Desiere Sam, Vellema Wyste, Weituschat Sophia, D'Haese Marjika, 2017. The Effectiveness Of Contract Farming In Improving Smallholder Income And Food Security In Low- And Middle-Income Countries: A Mixed-Method Systematic Review, 3ie Systematic Review. 3ie.

Uthman O A, Hartley L, Rees K, Taylor F, Ebrahim S, Clarke A, 2015. Multiple risk factor interventions for primary prevention of cardiovascular disease in low- and middle-income countries. Cochrane Database of Systematic Reviews. https://doi.org/10.1002/14651858.CD011163.pub2

Vasquez N A, Daher J, 2019. Do nutrition and cash-based interventions and policies aimed at reducing stunting have an impact on economic development of low-and-middle-income countries? A systematic review. BMC public health 19, 1419. https://doi.org/10.1186/s12889-019-7677-1

Verstraeten Roosmarijn, Roberfroid Dominique, Lachat Carl, Leroy Jef L, Holdsworth Michelle, Maes Lea, Kolsteren Patrick W, 2012. Effectiveness of preventive school-based obesity interventions in low- and middle-income countries: a systematic review. American Journal of Clinical Nutrition 96, 415–438. https://doi.org/10.3945/ajcn.112.035378

Visser Marianne E, Schoonees Anel, Ezekiel Chibundu N, Randall Nicola P, Naude Celeste E, 2020. Agricultural and nutritional education interventions for reducing aflatoxin exposure to improve infant and child growth in low- and middle-income countries. Cochrane Database of Systematic Reviews 2020. https://doi.org/10.1002/14651858.CD013376.pub2

Waddington H, Snilstveit B, Hombrados J G, Vojtkova M, Phillips D, Davies P, White H, 2014. Farmer field schools for improving farming practices and farmer outcomes in low- and middle-income countries: a systematic review. Campbell Systematic Reviews 10, i–335. https://doi.org/10.4073/CSR.2014.6

Walls H L, Johnston D, Tak M, Dixon J, Hanefeld J, Hull E, Smith R D, 2018. The impact of agricultural input subsidies on food and nutrition security: a systematic review. Food Security 10, 1425–1436. https://doi.org/10.1007/s12571-018-0857-5

Wang Dongqing, Fawzi Wafaie W, 2020. Impacts of school feeding on educational and health outcomes of school-age children and adolescents in low- and middle-income countries: protocol for a systematic review and meta-analysis. Systematic reviews 9. https://doi.org/10.1186/s13643-020-01317-6

Warthon-Medina M, Moran V H, Stammers A L, Dillon S, Qualter P, Nissensohn M, Serra-Majem L, Lowe N M, 2015. Zinc intake, status and indices of cognitive function in adults and children: a systematic review and meta-analysis. European Journal of Clinical Nutrition 69, 649–661. https://doi.org/10.1038/ejcn.2015.60

Yadav Kapil, Goel Akhil Dhanesh, Yadav Vikas, Upadhyay Ravi Prakash, Palepu Sarika, Pandav Chandrakant S, 2019. Meta-analysis of efficacy of iron and iodine fortified salt in improving iron nutrition status. Indian Journal of Public Health 63, 58–64. https://doi.org/10.4103/ijph.IJPH_420_17

Zhang J S F, 2011. Efficacy and effectiveness of 20 child health interventions in China: systematic review of Chinese literature. Journal of Global Health 1, 87–95.

Zhou Shao J, Anderson Amanda J, Gibson Robert A, Makrides Maria, 2013. Effect of iodine supplementation in pregnancy on child development and other clinical outcomes: a systematic review of randomized controlled trials. American Journal of Clinical Nutrition 98, 1241–1254. https://doi.org/10.3945/ajcn.113.065854

Linked studies

Masset E, Haddad L, Cornelius A, Isaza-Castro J, 2011. A systematic review of agricultural interventions that aim to improve nutritional status of children. Evidence for Policy and Practice Information and Co-ordinating Centre, 2011.

Abate Gashaw Tadesse, de Brauw, Alan, Minot Nicholas, Bernard Tanguy, 2015. The Impact Of The Use Of New Technologies On Farmers' Wheat Yield In Ethiopia: Evidence From A Randomized Controlled Trial. International Food Policy Research Institute (IFPRI) Discussion Paper Series 1462, Not applicable.

Abizari A R, 2013. Efficacy of iron fortified cowpea flour in improving iron status of schoolchildren in malaria endemic rural Ghana. Efficacy of iron fortified cowpea flour in improving iron status of schoolchildren in malaria endemic rural Ghana 191-pp.

Aboud F E, Moore A C, Akhter S, 2008. Effectiveness of a community-based responsive feeding programme in rural Bangladesh: a cluster randomized field trial. Maternal & Child Nutrition 4, 275–286. https://doi.org/10.1111/j.1740-8709.2008.00146.x

Adams K P, Ayifah E, Phiri T E, Mridha M K, Adu-Afarwuah S, Arimond M, Arnold C D, Cummins J, Hussain S, Kumwenda C, Matias S L, Ashorn U, Lartey A, Maleta K M, Vosti S A, Dewey K G, 2017. Maternal and child supplementation with lipid-based nutrient supplements, but not child supplementation alone, decreases self-reported household food insecurity in some settings. Journal of Nutrition 147, 2309–2318. https://doi.org/10.3945/jn.117.257386

Adom Theodosia, Puoane Thandi, De Villiers, Anniza, Kengne Andre Pascal, 2017. Protocol for systematic review of school-based interventions to prevent and control obesity in African learners. BMJ open 7, e013540. https://doi.org/10.1136/bmjopen-2016-013540

Adu-Afarwuah S, 2018. From the field: improving fetal and infant growth in vulnerable populations. Food and Nutrition Bulletin 39, S60–S68. https://doi.org/10.1177/0379572118773035

Adu-Afarwuah S, Lartey A, Okronipa H, Ashorn P, Ashorn U, Zeilani M, Arimond M, Vosti S A, Dewey K G, 2017a. Maternal supplementation with small-quantity lipid-based nutrient supplements compared with multiple micronutrients, but not with iron and folic acid, reduces the prevalence of low gestational weight gain in semi-urban Ghana: a randomized controlled trial. Journal of Nutrition 147, 697–705. https://doi.org/10.3945/jn.116.242909

Adu-Afarwuah S, Lartey A, Okronipa H, Ashorn P, Peerson J M, Arimond M, Ashorn U, Zeilani M, Vosti S, Dewey K G, 2016. Small-quantity, lipid-based nutrient supplements provided to women during pregnancy and 6 mo postpartum and to their infants from 6 mo of age increase the mean attained length of 18-mo-old children in semi-urban Ghana: a randomized controlled trial. American Journal of Clinical Nutrition 104, 797–808. https://doi.org/10.3945/ajcn.116.134692

Adu-Afarwuah S, Lartey A, Okronipa H, Ashorn P, Zeilani M, Baldiviez L M, Oaks B M, Vosti S, Dewey K G, 2017b. Impact of small-quantity lipid-based nutrient supplement on hemoglobin, iron status and biomarkers of inflammation in pregnant Ghanaian women. Maternal and Child Nutrition 13, e12262.

Adu-Afarwuah S, Young R R, Lartey A, Okronipa H, Ashorn P, Ashorn U, Oaks B M, Dewey K G, 2020. Supplementation with small-quantity lipid-based nutrient supplements does not increase child morbidity in a semiurban setting in Ghana: a secondary outcome noninferiority analysis of the international lipid-based nutrient supplements (iLiNS)-DYAD randomized controlled trial. Journal of Nutrition 150, 382–393. https://doi.org/10.1093/jn/nxz243

Adu-Afarwuah S, Young R T, Lartey A, Okronipa H, Ashorn P, Ashorn U, Oaks B M, Arimond M, Dewey K G, 2019. Maternal and infant supplementation with small-quantity lipid-based nutrient supplements increases infants' iron status at 18 months of age in a semiurban setting in Ghana: a secondary outcome analysis of the iLiNS-DYAD randomized controlled trial. Journal of Nutrition 149, 149–158. https://doi.org/10.1093/jn/nxy225

Adu-Afarwuah S, Young R T, Lartey A, Okronipa H, Ashorn P, Ashorn U, Zeilani M, Dewey K G, 2018. Supplementation during pregnancy with small-quantity lipid-based nutrient supplements or multiple micronutrients, compared with iron and folic acid, increases women's urinary iodine concentration in semiurban Ghana: a randomized controlled trial. Maternal and Child Nutrition 14, e12570. https://doi.org/10.1111/mcn.12570

Agartha Cofie, 2012. Integrated Education Intervention to Improve Infant and Young Child Nutrition and Growth in Ghana. https://clinicaltrials.gov/show/NCT01612442.

Agarwal Bina, 2018. Can group farms outperform individual family farms? Empirical insights from India. World Development 57.

Ahmed A U, Hoddinott J F, Abedin N, Hossain N Z, 2019. Economic and health impacts of genetically modified eggplant: results from a randomized controlled trial of Bt brinjal in Bangladesh. IFPRI - Discussion Papers 53-pp.

Ahmed A U, Quisumbing M A.R, Hoddinott J, Nasreen M, Bryan E, 2007. Relative Efficacy of Food and Cash Transfers in Improving Food Security and Livelihoods of the Ultra-Poor in Bangladesh.

Aker Jenny, 2013. Cash Or Coupons? Testing The Impacts Of Cash Versus Vouchers In The Democratic Republic Of Congo. Center for Global Development (CGD) Working Papers 320, Not applicable.

Aker Jenny C, 2015. Comparing Cash And Voucher Transfers In A Humanitarian Context: Evidence From The Democratic Republic Of Congo. World Bank Policy Research Working Paper 7469, Not applicable.

Aker Jenny, Ksoll Christopher, 2012. Information Technology And Farm Households In Niger. United Nations Development Programme (Working Paper series) 2012–005, 1–19.

Alaofe Halimatou, Burney Jennifer, Naylor Rosamond, Taren Douglas, 2016. Solar-Powered Drip Irrigation Impacts on Crops Production Diversity and Dietary Diversity in Northern Benin. Food and nutrition bulletin 37, 164–75. https://doi.org/10.1177/0379572116639710

Alem Yonas, Broussard Nzinga H, 2013. Do Safety Nets Promote Technology Adoption? Panel data evidence from rural Ethiopia.

Amynah Janmohamed Nazia Sohani Zohra S Lassi Zulfiqar A Bhutta, 2019. PROTOCOL: The effectiveness of community, financial, technology platforms for delivering nutrition-specific interventions in low- and middle-income countries: A systematic review.

Ana C Fernández-Gaxiola, Luz Maria De-Regil, 2011. Intermittent iron supplementation for reducing anaemia and its associated impairments in menstruating women. Cochrane Database of Systematic Reviews. https://doi.org/10.1002/14651858.CD009218.pub2

Ana C Fernández-Gaxiola, Luz Maria De-Regil, Mona Nasser, 2011. Intermittent iron supplementation for reducing anaemia and its associated impairments in menstruating women. Cochrane Database of Systematic Reviews. https://doi.org/10.1002/14651858.CD009218

Ara Gulshan, Khanam Mansura, Papri Nowshin, Nahar Baitun, Haque Md Ahshanul, Kabir Iqbal, Dibley Michael J, 2018. Peer counselling improves breastfeeding practices: A cluster randomized controlled trial in urban Bangladesh. Maternal & Child Nutrition 14, 1–1. https://doi.org/10.1111/mcn.12605

Ardic Aysun, Erdogan Semra, 2017. The effectiveness of the COPE healthy lifestyles TEEN program: a school-based intervention in middle school adolescents with 12-month follow-up. Journal of Advanced Nursing (John Wiley & Sons, Inc.) 73, 1377–1389. https://doi.org/10.1111/jan.13217

Argaw A, Wondafrash M, Bouckaert K P, Kolsteren P, Lachat C, Belachew T, De Meulenaer B, Huybregts L, 2018. Effects of n-3 long-chain PUFA supplementation to lactating mothers and their breastfed children on child growth and morbidity: a 2x2 factorial randomized controlled trial in rural Ethiopia. American Journal of Clinical Nutrition 107, 454–464. https://doi.org/10.1093/ajcn/nqx057

Arimond M, Abbeddou S, Kumwenda C, Okronipa H, Hemsworth J, Jimenez E Y, Ocansey E, Lartey A, Ashorn U, Adu-Afarwuah S, Vosti S A, Hess S Y, Dewey K G, 2017. Impact of small quantity lipid-based nutrient supplements on infant and young child feeding practices at 18 months of age: results from four randomized controlled trials in Africa. Maternal and Child Nutrition 13, e12377. https://doi.org/10.1111/mcn.12377

Ashorn P, Alho L, Ashorn U, Cheung YinBun, Dewey K G, Gondwe A, Harjunmaa U, Lartey A, Phiri N, Phiri T E, Vosti S A, Zeilani M, Maleta K, 2015. Supplementation of maternal diets during pregnancy and for 6 months postpartum and infant diets thereafter with small-quantity lipid-based nutrient supplements does not promote child growth by 18 months of age in rural Malawi: a randomized controlled trial. Journal of Nutrition 145, 1345–1353.

Asres Elias, Makoto Nohmi, Kumi Yasunobu, Akira Ishida, 2013. Effect of agricultural extension program on smallholders' farm productivity: evidence from three peasant associations in the highlands of Ethiopia. Journal of Agricultural Science (Toronto) 5, 163–181.

Attanasio O, Mesnard A, 2006. The impact of a conditional cash transfer programme on consumption in Colombia.

Aurino Elisabetta, Gelli Aulo, Adamba Clement, Osei-Akoto Isaac, Alderman Harold, 2018. Food for thought? Experimental evidence on the learning impacts of a large-scale school feeding program in Ghana [Supplement].

Awotide B A, Karimov A, Diagne A, Nakelse T, 2013. The impact of seed vouchers on poverty reduction among smallholder rice farmers in Nigeria. Agricultural Economics (United Kingdom) 44, 647–658. https://doi.org/10.1111/agec.12079

Badii A, Nekouei N, Fazilati M, Shahedi M, Badiei S, 2012. Effect of consuming zinc-fortified bread on serum zinc and iron status of zinc-deficient women: A double blind, randomized clinical trial. International Journal of Preventive Medicine 3.

Bajrami Egzon, Wailes Eric, Dixon Bruce, Musliu Arben, 2016. Are dairy subsidies effective to increase milk productivity and income in Kosovo? A Propensity Score Matching Approach.

Baxter J Ab, Wasan Y, Soofi S B, Suhag Z, Bhutta Z A, 2018. Effect of life skills building education and micronutrient supplements provided from preconception versus the standard of care on low birth weight births among adolescent and young Pakistani women (15-24 years): a prospective, population-based cluster-randomized trial. Reproductive health 15. https://doi.org/10.1186/s12978-018-0545-0

Beaman L, BenYishay A, Magruder J, Mobarak M, Fatch P, 2012. Making Networks Work for Policy: Evidence from Agricultural Technology Adoption in Malawi.

Beleigoli A M, Andrade A Q, Diniz M D. F, Alvares R S. R, Ferreira M H, Silva L A, Ribeiro A L, 2018. Protocol of a randomized clinical trial to test the efficacy of an online platform for weight loss in adults with overweight and obesity: pOEmaS Project. Obesity facts 11, 268-. https://doi.org/10.1159/000489691

Benjamin F Arnold1, Clair Null2, 3, Stephen P Luby4, 5, Leanne Unicomb4, Christine P Stewart6, Kathryn G Dewey6, Tahmeed Ahmed7, 8, Sania Ashraf4, Garret Christensen3, 9, Thomas Clasen2, Holly N Dentz2, 3, Lia C H Fernald1, Rashidul Haque4, 10, Alan E Hubbard1, Patricia Kariger1, Elli Leontsini11, Audrie Lin1, Sammy M Njenga12, Amy J Pickering13, Pavani K Ram14, Fahmida Tofail7, Peter J Winch11, John M Colford Jr1, 2013. Cluster-randomised controlled trials of individual and combined water, sanitation, hygiene and nutritional interventions in rural Bangladesh and Kenya: the WASH Benefits study design and rationale. BMJ Open 3.

Berhane Guush, Gilligan Daniel O, Hoddinott John, Kumar Neha, Taffesse Alemayehu Seyoum, 2014. Can Social Protection Work in Africa? The Impact of Ethiopia's Productive Safety Net Programme. Economic Development and Cultural Change 63, 1–26.

Bernardo Greyce Luci, Jomori Manuela Mika, Fernandes Ana Carolina, Colussi Claudia Flemming, Condrasky Margaret D, da Costa Proenca, Rossana Pacheco, 2018. Positive impact of a cooking skills intervention among Brazilian university students: Six months follow-up of a randomized controlled trial. Appetite 130, 247–255. https://doi.org/10.1016/j.appet.2018.08.014

Bhandari N, Black R E, Bhan M K, Martines J, Mazumder S, Bahl R, 2004. An educational intervention to promote appropriate complementary feeding practices and physical growth in infants and young children in rural Haryana, India. Journal of nutrition 134, 2342–2348.

Bhandari Nita, Mohan Sanjana Brahmawar, Bose Anuradha, Iyengar Sharad D, Taneja Sunita, Mazumder Sarmila, Pricilla Ruby Angeline, Iyengar Kirti, Sachdev Harshpal Singh, Mohan Venkata Raghava, Suhalka Virendra, Yoshida Sachiyo, Martines Jose, Bahl Rajiv, 2016. Efficacy of three feeding regimens for home-based management of children with uncomplicated severe acute malnutrition: a randomised trial in India. BMJ global health 1, e000144. https://doi.org/10.1136/bmjgh-2016-000144

Bhutta Z A, Khan I I, 2004. Multiple-micronutrient supplementation for women during pregnancy.

Bich Tran Huu, Hoa Dinh Thi Phuong, Malqvist Mats, 2014. Fathers as supporters for improved exclusive breastfeeding in Vietnam. Maternal and Child Health Journal 18, 1444–1453. https://doi.org/10.1007/s10995-013-1384-9

Birol Ekin, Roy Devesh, Torero Maximo, 2010. How safe is my food?: Assessing the effect of information and credible certification on consumer demand for food safety in developing countries.

Birungi Nancy, Fadnes Lars T, Okullo Isaac, Kasangaki Arabat, Nankabirwa Victoria, Ndeezi Grace, Tumwine James K, Tylleskär Thorkild, Lie Stein Atle, Åstrøm Anne Nordrehaug, 2015. Effect of Breastfeeding Promotion on Early Childhood Caries and Breastfeeding Duration among 5 Year Old Children in Eastern Uganda: A Cluster Randomized Trial. PLoS ONE 10, 1–15. https://doi.org/10.1371/journal.pone.0125352

Boateng L, Ohemeng A, Asante M, Steiner-Asiedu M, 2017. Measuring blood retinol concentrations of infants fed with complementary foods fortified with Moringa Oleifera leaf powder-a pilot study. Annals of nutrition & metabolism 71, 655-. https://doi.org/10.1159/000480486

Borg B, Mihrshahi S, Griffin M, Sok D, Chhoun C, Laillou A, Berger J, Wieringa F T, 2018. Randomised controlled trial to test the effectiveness of a locally-produced ready-to-use supplementary food (RUSF) in preventing growth faltering and improving micronutrient status for children under two years in Cambodia: a study protocol. Nutrition journal 17, 39–39.

Borg Bindi, Mihrshahi Seema, Griffin Mark, Sok Daream, Chhoun Chamnan, Laillou Arnaud, Wieringa Frank T, 2019. Acceptability of locally-produced Ready-to-Use Supplementary Food (RUSF) for children under two years in Cambodia: A cluster randomised trial. Maternal & child nutrition 15, e12780. https://doi.org/10.1111/mcn.12780

Bosch Christine, Zeller Manfred, Deffner Domenica, 2016. Are seed distributions effective? Evidence from a randomly controlled experiment with improved bean seeds in rural Madagascar.

Brauw Alan de, Eozenou Patrick, Gilligan Daniel O, Hotz Christine, Kumar Neha, Meenakshi J V, 2013. Biofortification, crop adoption and health information: Impact pathways in Mozambique and Uganda.

Brown K H, Peerson J M, Rivera J, Allen L H, 2002. Effect of supplemental zinc on the growth and serum zinc concentrations of prepubertal children: a meta-analysis of randomized controlled trials.

Bruck T, Botia O M D, Ferguson N T N, Ouedraogo J, Ziegelhoefer Z, 2018. Assets for Alimentation? The Nutritional Impact of Assets-based Programming in Niger.

Buchsbaum A, Shoham J, Harris J, McGrath M, 2016a. Nutrition incentives in dairy contract farming in northern Senegal. Special focus on nutrition-sensitive programming. 26–28.

Buchsbaum A, Shoham J, Harris J, McGrath M, 2016b. Impact of an integrated agriculture and nutrition and health behaviour change communication programme for women in Burkina Faso. Special focus on nutrition-sensitive programming. 42–43.

Bunyatta D K, Onyango C K, Mureithi J G, Ngesa F U, Kenya Agricultural Research Institute, Nairobi National Agricultural Research Laboratories, 2003. Effectiveness of farmer field school in dissemination and adoption of soil management technologies among small scale farmers in Trans-Nzoia district, Kenya. [Language: en] 421–439.

Burney J, Alaofè H, Naylor R, Taren D, 2017. Impact of a rural solar electrification project on the level and structure of women's empowerment. Environmental Research Letters 12. https://doi.org/10.1088/1748-9326/aa7f38

Buttenheim Alison, Alderman Harold, Friedman Jed, 2011. Impact evaluation of school feeding programs in Lao PDR / Impact evaluation of school feeding programs in Lao PDR, Policy Research Working Papers. The World Bank.

Caeiro Rute, Vicente Pedro C, 2013. Vitamin A Deficiency And Training To Farmers: Evidence From A Field Experiment In Mozambique. NOVAFRICA Working Paper Series Not applicable, 1–25.

Campbell R K, Hurley K M, Shamim A A, Shaikh S, Chowdhury Z T, Mehra S, de Pee S, Ahmed T, West K P, Christian P, 2016. Effect of complementary food supplementation on breastfeeding and home diet in rural Bangladeshi children. The American journal of clinical nutrition 104, 1450–1458.

Carl Bose, 2011. Efficacy of Caterpillar Cereal for Complementary Feeding in the Democratic Republic of Congo. https://clinicaltrials.gov/show/NCT01282788.

Carter M, Laajaj R, Yang D, 2015. Savings and Subsidies, Separately and Together: Decomposing Effects of a Bundled Anti-Poverty Program.

Carter M R, Laajaj R, Yang D, 2016. Savings, subsidies, and technology adoption: Field experimental evidence from Mozambique.

Carter Michael, Laajaj Rachid, Yang Dean, 2019. Subsidies and the African Green Revolution: Direct Effects and Social Network Spillovers of Randomized Input Subsidies in Mozambique.

Cavatassi Ramina, González-Flores Mario, Winters Paul, Andrade-Piedra Jorge, Espinosa Patricio, Thiele Graham, 2011. Linking smallholders to the new agricultural economy: The case of the plataformas de concertación in Ecuador 375.

Cavatassi Romina, Gonzalez Mario, Winters Paul, Andrade-Piedra Jorge, Thiele Graham, Espinosa Patricio, 2009. Linking Smallholders to the New Agricultural Economy: An Evaluation of the Plataformas Program in Ecuador pages.

Chawla P K, Sonika Sharma, Sachdeva R, 2005. Impact of nutrition counselling on anthropometric parameters of school girls (7-9 years). Journal of Dairying, Foods and Home Sciences 24, 54–58.

Chen K, Li T Y, Chen L, Qu P, Liu Y X, 2008. Effects of vitamin A, vitamin A plus iron and multiple micronutrient-fortified seasoning powder on preschool children in a suburb of Chongqing, China. Journal of nutritional science and vitaminology 54, 440-447. https://doi.org/10.3177/jnsv.54.440

Chen Ke, Li TingYu, Chen Li, Liu YouXue, Qu Ping, Zhang YiGuan, 2007. Multiple micronutrient-fortified seasoning powders in preschool children in Chongqing suburb. Sight and Life Magazine 28–31.

Chhagan Meera Kurson, 2009. The effect of micronutrient supplementation on morbidity and growth in South Africa children. Dissertation Abstracts International 70, 1620.

Chi Ctr Onrc, 2012. A pilot study of school-based peer education and obesity-related behaviours in adolescents in Beijing, China. http://www.who.int/trialsearch/Trial2.aspx?TrialID=ChiCTR-ONRC-12002100.

Chirwa Themba G, 2010. Program evaluation of agricultural input subsidies in Malawi using treatment effects: Methods and practicability based on propensity scores.

Chola Lumbwe, Fadnes Lars T, Engebretsen Ingunn M. S, Nkonki Lungiswa, Nankabirwa Victoria, Sommerfelt Halvor, Tumwine James K, Tylleskar Thorkild, Robberstad Bjarne, null null, 2015. Cost-Effectiveness of Peer Counselling for the Promotion of Exclusive Breastfeeding in Uganda. PLoS ONE 10, 1–18. https://doi.org/10.1371/journal.pone.0142718

Christian P, Khatry S K, Katz J, Pradhan E K, LeClerq S C, Shrestha S R, Adhikari R K, Sommer A, Keith P W, 2003. Effects of alternative maternal micronutrient supplements on low birth weight in rural Nepal: double blind randomised community trial.

Christian P, Shaikh S, Shamim A A, Mehra S, Wu L, Mitra M, Ali H, Merrill R D, Choudhury N, Parveen M, Fuli R D, Hossain M I, Islam M M, Klemm R, Schulze K, Labrique A, de Pee S, Ahmed T, West K P, 2015. Effect of fortified complementary food supplementation on child growth in rural Bangladesh: a cluster-randomized trial. [Comment in: Int J Epidemiol. 2015 Dec;44(6):1876-8; PMID: 26553842 [https://www.ncbi.nlm.nih.gov/pubmed/26553842]] 44, 1862–76. https://doi.org/10.1093/ije/dyv155

Cliffer I R, Nikiema L, Langlois B K, Zeba A N, Shen Y, Lanou H B, Suri D J, Garanet F, Chui K, Vosti S, Walton S, Rosenberg I, Webb P, Rogers B L, 2020. Cost-effectiveness of 4 specialized nutritious foods in the prevention of stunting and wasting in children aged 6-23 months in Burkina Faso: A geographically randomized trial. Current Developments in Nutrition 4 (2) (no pagination).

Conan Anne, Goutard Flavie Luce, Holl Davun, Ra Sok, Ponsich Aurelia, Tarantola Arnaud, Sorn San, Vong Sirenda, 2013. Cluster randomised trial of the impact of biosecurity measures on poultry health in backyard flocks. Veterinary journal (London, England : 1997) 198, 649–55. https://doi.org/10.1016/j.tvjl.2013.09.010

Cunha D, Souza B, Pereira R, Sichieri R, 2012. Preventing excessive weight gain by encouraging healthy eating habits among adolescents in Brazil: a randomised community trial. FASEB journal 26.

Cunha Diana Barbosa, de Souza, Barbara da Silva Nalin, da Veiga, Gloria Valeria, Pereira Rosangela Alves, Sichieri Rosely, 2015. Readiness for behavioral change and variation in food consumption among adolescents from a school-based community trial in Duque de Caxias, RJ. Revista brasileira de epidemiologia = Brazilian journal of epidemiology 18, 655–65. https://doi.org/10.1590/1980-5497201500030011

Cunha Jesse M, Giorgi Giacomo De, Jayachandran Seema, 2011. The Price Effects Of Cash Versus In-Kind Transfers. NBER Working Paper Series 17456, 1–51.

Daidone S, Pace N, Prifti E, 2020. Combining cash transfers with rural development interventions: an impact evaluation of Lesotho's Child Grants Programme (CGP) and Sustainable Poverty Reduction through Income.

Daivadanam M, Wahlstrom R, Sundari Ravindran, T K, Sarma P S, Sivasankaran S, Thankappan K R, 2013. Design and methodology of a community-based cluster-randomized controlled trial for dietary behaviour change in rural Kerala. Global health action 6, 20993. https://doi.org/10.3402/gha.v6i0.20993

Dangour A D, Albala C, Aedo C, Elbourne D, Grundy E, Walker D, Uauy R, 2007. A factorial-design cluster randomised controlled trial investigating the cost-effectiveness of a nutrition supplement and an exercise programme on pneumonia incidence, walking capacity and body mass index in older people living in Santiago, Chile: the CENEX study protocol. Nutrition journal 6, 14. https://doi.org/10.1186/1475-2891-6-14

Das Jai K, Salam Rehana A, Hadi Yousaf Bashir, Sadiq Sheikh, Sana, Bhutta Afsah Z, Weise Prinzo, Zita, Bhutta Zulfiqar A, 2017. Preventive lipid-based nutrient supplements given with complementary foods to infants and young children 6 to 23 months of age for health, nutrition, and developmental outcomes. The Cochrane database of systematic reviews 5, CD012611. https://doi.org/10.1002/14651858.CD012611.pub3

Datar Gayatri, Carpio Ximena V. del, 2010. Are irrigation rehabilitation projects good for poor farmers in Peru? Policy Research Working Paper - World Bank 42.

Davidson Kelly A, Kropp Jaclyn D, Mullally Conner C, Rahman M Wakilur, 2018. Behavioral Nudges and Nutrition Education in Bangladesh: Experimental Evidence Comparing Food Choices in a Lab Setting to Decisions at Home.

Davis Kristin, Nkonya Ephraim, Kato Edward, Mekonnen Daniel Ayalew, Odendo Martins, Miiro Richard, Nkuba Jackson, 2010. Impact of farmer field schools on agricultural productivity and poverty in East Africa.

de Janvry A, Sadoulet E, Emerick K, Dar M, 2015. The Impact of Seed Fairs on the Diffusion of New Crop Varieties in India.

De Villiers, A, Steyn N P, Draper C E, Hill J, Dalais L, Fourie J, Lombard C, Barkhuizen G, Lambert E V, 2015. Implementation of the HealthKick intervention in primary schools in low-income settings in the Western Cape Province, South Africa: A process evaluation. BMC Public Health 15. https://doi.org/10.1186/s12889-015-2157-8

Deanna Olney, Susan Richter, Elisabeth Becker, Terry Roopnaraine, Amy Margolies, Andrew Kennedy, Jef Leroy, Marie Ruel, 2013. A Process Evaluation of the PROCOMIDA "Preventing Malnutrition in Children under 2 Approach" in Guatemala.

del Ninno, Carlo, Dorosh Paul A, 2002. In-kind transfers and household food consumption.

Delan Devakumar, Stocks J, Ayres J G, Kirkby J, Yadav S K, Saville N M, Devereux G, Wells J C. K, Manandhar D S, Costello A, Osrin D, 2015. Effects of antenatal multiple micronutrient supplementation on lung function in mid-childhood: follow-up of a double-blind randomised controlled trial in Nepal. European Respiratory Journal 45, 1566–1575. https://doi.org/10.1183/09031936.00188914

Delimont N M, Chanadang S, Joseph M V, Rockler B E, Guo Q, Regier G K, Mulford M R, Kay, a R, Range M, Mziray Z, Jonas A, 2017. The MFFAPP Tanzania efficacy study protocol: newly formulated, extruded, fortified blended foods for food aid. Current developments in nutrition 1. https://doi.org/10.3945/cdn.116.000315

De-Regil L M, Jefferds M E. D, Peña-Rosas J P, 2012. Point-of-use fortification of foods with micronutrient powders containing iron in children of preschool and school age.

De-Regil L M, Suchdev P S, Vist G E, Walleser S, Peña-Rosas J P, 2013. Home fortification of foods with multiple micronutrient powders for health and nutrition in children under two years of age. Evidence-Based Child Health 8, 112–201. https://doi.org/10.1002/ebch.1895

De-Regil Luz Maria, Suchdev Parminder S, Vist Gunn E, Walleser Silke, Pena-Rosas Juan Pablo, 2011. Home fortification of foods with multiple micronutrient powders for health and nutrition in children under two years of age. [Update in: Cochrane Database Syst Rev. 2020 Feb 28;2:CD008959; PMID: 32107773 [https://www.ncbi.nlm.nih.gov/pubmed/32107773]] CD008959. https://doi.org/10.1002/14651858.CD008959.pub2

Devakumar D, Fall C H, Sachdev H S, Margetts B M, Osmond C, Wells J C K, Costello A, Osrin D, 2016. Maternal antenatal multiple micronutrient supplementation for long-term health benefits in children: a systematic review and meta-analysis.

Dewey K G, Mridha M K, Matias S L, Arnold C D, Cummins J R, Khan M S. A, Maalouf-Manasseh Z, Siddiqui Z, Ullah M B, Vosti S A, 2017. Lipid-based nutrient supplementation in the first 1000 d improves child growth in Bangladesh: a cluster-randomized effectiveness trial. American Journal of Clinical Nutrition 105, 944–957. https://doi.org/10.3945/ajcn.116.147942

Dewey K G, Mridha M K, Matias S L, Cummins J R, Peerson J M, Arnold C D, Young R T, Vosti S A, 2016. Effectiveness of a Lipid-Based Nutrient Supplement (LNS) Intervention on Pregnancy and Birth Outcomes in Bangladesh.

Dhlamini T S, Kuupiel D, Mashamba-Thompson T P, 2019. Evidence on point-of-care diagnostics for assessment of nutritional biochemical markers as an integral part of maternal services in low- and middle-income countries: systematic scoping review protocol. Systematic Reviews 8. https://doi.org/10.1186/s13643-018-0932-1

Diogenes M E. L, Bezerra F F, Rezende E P, Taveira M F, Pinhal I, Donangelo C M, 2013. Effect of calcium plus vitamin D supplementation during pregnancy in Brazilian adolescent mothers: a randomized, placebo-controlled trial. American Journal of Clinical Nutrition 98, 82–91.

Doocy S, Cohen S, Emerson J, Menakuntuala J, Rocha J S, Klemm R, Stron J, Brye L, Funna S, Nzanzu J P, Musa E, Caulfield L, Colantouni E, Jenga Jamaa, I I Study Team, 2017. Food security and nutrition outcomes of farmer field schools in eastern democratic republic of the Congo. Global Health Science and Practice 5, 630–643. https://doi.org/10.9745/GHSP-D-17-00203

Doocy S, Emerson J, Colantouni E, Strong J, Mansen K A, Caulfield L E, Klemm R, Brye L, Funna S, Nzanzu J P, Musa E, Rocha J S, Menakuntuala J, The Jenga Jamaa, I I Study Team, 2018. Improving household food security in eastern Democratic Republic of the Congo: a comparative analysis of four interventions. Food Security 10, 649–660. https://doi.org/10.1007/s12571-018-0808-1

Doocy Shannon, Busingye Martin, Lyles Emily, Colantouni Elizabeth, Aidam Bridget, Ebulu George, Savage Kevin, 2020. Cash and voucher assistance and children's nutrition status in Somalia. Maternal & child nutrition e12966. https://doi.org/10.1111/mcn.12966

Dorward A, Roberts P, Finegold C, Hemming D, Chirwa E, Wright H, Hill R, Osborn J, Lamontagne-Godwin J, Harman L, Parr M J, 2014. PROTOCOL: Agricultural Input Subsidies for improving Productivity, Farm Income, Consumer Welfare and Wider Growth in Low- and Middle-Income Countries: A Systematic Review.

Draper Catherine E, de Villiers, Anniza, Lambert Estelle V, Fourie Jean, Hill Jillian, Dalais Lucinda, Abrahams Zulfa, Steyn Nelia P, 2010. HealthKick: a nutrition and physical activity intervention for primary schools in low-income settings. BMC public health 10, 398. https://doi.org/10.1186/1471-2458-10-398

Edoardo Masset, Lawrence Haddad, Alexander Cornelius, Jairo Isaza-Castro, 2010. Protocol - What is the impact of interventions to increase agricultural production on childrens nutritional status?

Eide K T, Fadnes L T, Engebretsen I M. S, Onarheim K H, Wamani H, Tumwine J K, Norheim O F, 2016. Impact of a peer-counseling intervention on breastfeeding practices in different socioeconomic strata: results from the equity analysis of the PROMISE-EBF trial in Uganda. Global Health Action 9, 30578. https://doi.org/10.3402/gha.v9.30578

Engebretsen I M, Jackson D, Fadnes L T, Nankabirwa V, Diallo A H, Doherty T, Lombard C, Swanvelder S, Nankunda J, Ramokolo V, Sanders D, Wamani H, Meda N, Tumwine J K, Ekstrom E C, Perre P van de,

Kankasa C, Sommerfelt H, Tylleskar T, 2014. Growth effects of exclusive breastfeeding promotion by peer counsellors in sub-Saharan Africa: the cluster-randomised PROMISE EBF trial. BMC Public Health 14.

Erismann Severine, Shrestha Akina, Diagbouga Serge, Knoblauch Astrid, Gerold Jana, Herz Ramona, Sharma Subodh, Schindler Christian, Odermatt Peter, Drescher Axel, Yang Ray-Yu, Utzinger Jurg, Cisse Gueladio, 2016. Complementary school garden, nutrition, water, sanitation and hygiene interventions to improve children's nutrition and health status in Burkina Faso and Nepal: a study protocol. [Erratum in: BMC Public Health. 2016;16(1):522; PMID: 27381239 [https://www.ncbi.nlm.nih.gov/pubmed/27381239]] 16, 244. https://doi.org/10.1186/s12889-016-2910-7

Evidence from a randomized intervention in Niger / The impact of cash and food transfers, 2013.

Fadnes L T, Nankabirwa V, Engebretsen I M, Sommerfelt H, Birungi N, Lombard C, Swanevelder S, Van Den Broeck, J, Tylleskär T, Tumwine J K, 2016. Effects of an exclusive breastfeeding intervention for six months on growth patterns of 4-5 year old children in Uganda: The cluster-randomised PROMISE EBF trial. BMC Public Health 16. https://doi.org/10.1186/s12889-016-3234-3

Fahmida Tofail 1, Lia Ch Fernald 2, Kishor K Das 3, Mahbubur Rahman 3, Tahmeed Ahmed 3, Kaniz K Jannat 3, Leanne Unicomb 3, Benjamin F Arnold 2, Sania Ashraf 3, Peter J Winch 4, Patricia Kariger 2, Christine P Stewart 5, John M Colford Jr 2, Stephen P Luby 6, 2018. Effect of water quality, sanitation, hand washing, and nutritional interventions on child development in rural Bangladesh (WASH Benefits Bangladesh): a cluster-randomised controlled trial. Lancet Child and Adolescent Health 2. https://doi.org/10.1016/S2352-4642(18)30031-2

Fahmida Tofail, Persson L A, Shams El-Arifeen, Hamadani J D, Ferdina Mehrin, Ridout D, Ekstrom E C, Huda S N, Grantham-Mcgregor S M, 2008. Effects of prenatal food and micronutrient supplementation on infant development: a randomized trial from the Maternal and Infant Nutrition Interventions, Matlab (MINIMat) study. American Journal of Clinical Nutrition 87, 704–711.

Fakir Md Yunus, Chowdhury Jalal, Kaosar Afsana, Rajib Podder, Albert Vandenberg, Diane M DellaValle, 2018. Iron-fortified Lentils to Improve Iron (Fe) Status in Bangladesh. https://clinicaltrials.gov/show/NCT03516734.

FAO, 2016. The broad range of impacts of the Social Cash Transfer Pilot Programme in Ethiopia.

Fenn B, 2017. A cluster RCT to measure the effectiveness of cash-based interventions on nutrition status in Pakistan. Field Exchange - Emergency Nutrition Network ENN 61–62.

Fenn Bridget, Sangrasi Ghulam Murtaza, Puett Chloe, Trenouth Lani, Pietzsch Silke, 2015. The REFANI Pakistan study--a cluster randomised controlled trial of the effectiveness and cost-effectiveness of cash-based transfer programmes on child nutrition status: study protocol. BMC public health 15, 1044. https://doi.org/10.1186/s12889-015-2380-3

Fenton T, Premji S S, Al-Wassia H, Sauve R S, 2014. Higher versus lower protein intake in formula-fed low birth weight infants.

Fighting child malnutrition through the Bangladesh Integrated Nutrition Project, 2008. . id21 Development Research Reporting Service, 2008.

Fisher M, 2017. Endline Evaluation of United States Department of Agriculture (USDA) McGovern-Dole Grant Food for Education (FFE) Programme for WFP Cambodia 2013-2016.

Frith A L, Naved R T, Persson L A, Frongillo E A, 2015. Early prenatal food supplementation ameliorates the negative association of maternal stress with birth size in a randomised trial. Maternal and Child Nutrition 11, 537–549. https://doi.org/10.1111/mcn.12047

Frith A L, Naved R T, Persson L A, Rasmussen K M, Frongillo E A, 2012. Early participation in a prenatal food supplementation program ameliorates the negative association of food insecurity with quality of maternal-infant interaction. Journal of Nutrition 142, 1095–1101. https://doi.org/10.3945/jn.111.155358

Frith A, Ziaei S, Frongillo E, Khan A, Ekstrom E C, Naved R, 2017. Breastfeeding counseling improves maternal-infant feeding interaction in those exposed to controlling behavior or emotional violence: mINIMat study in Bangladesh. FASEB journal 31.

Gelli A, Gladstone M, Twalibu A, Nnensa T, Kariger P, Alderman H, 2019. Adding a nutrition behavior change communication component to an Early Childhood Development intervention in Malawi: a cluster randomized trial. IFPRI - Discussion Papers 24-pp.

Gelli A, Margolies A, Santacroce M, Roschnik N, Twalibu A, Katundu M, Moestue H, Alderman H, Ruel M, 2018. Using a Community-Based Early Childhood Development Center as a Platform to Promote Production and Consumption Diversity Increases Children's Dietary Intake and Reduces Stunting in Malawi: A Cluster-Randomized Trial. The Journal of nutrition 148, 1587–1597. https://doi.org/10.1093/jn/nxy148

Gelli A, Margolies A, Santacroce M, Sproule K, Theis S, Roschnik N, Twalibu A, Chidalengwa G, Cooper A, Moorhead T, et al, 2017. Improving child nutrition and development through community-based childcare centres in Malawi - The NEEP-IE study: study protocol for a randomised controlled trial. Trials 18, 284. https://doi.org/10.1186/s13063-017-2003-7

Gelli Aulo, Masset Edoardo, Folson Gloria, Kusi Anthoni, Arhinful Daniel K, Asante Felix, Ayi Irene, Bosompem Kwabena M, Watkins Kristie, Abdul-Rahman Lutuf, Agble Rosanna, Ananse-Baden Getrude, Mumuni Daniel, Aurino Elisabetta, Fernandes Meena, Drake Lesley, 2016. Evaluation of alternative school feeding models on nutrition, education, agriculture and other social outcomes in Ghana: rationale, randomised design and baseline data. Trials 17, 1–19. https://doi.org/10.1186/s13063-015-1116-0

Gewa C A, Weiss R E, Bwibo N O, Whaley S, Sigman M, Murphy S P, Harrison G, Neumann C G, 2009. Dietary micronutrients are associated with higher cognitive function gains among primary school children in rural Kenya. British Journal of Nutrition 101, 1378–1387. https://doi.org/10.1017/S0007114508066804

Ghattas H, Jamaluddine Z, Choufani J, Masterson A R, Sahyoun N R, 2019. Improvements in economic, social, and food security outcomes of Palestinian refugee women and diet diversity of Palestinian schoolchildren

in Lebanon: the Healthy Kitchens, Healthy Children intervention. Special Issue: Research in the Occupied Palestinian Territory 2018. 393, S25. https://doi.org/10.1016/s0140-6736(19)30611-7

Gilligan Daniel O, Kumar Neha, Mcniven Scott, Meenakshi J V, Quisumbing Agnes, 2014. Bargaining Power And Biofortification: The Role Of Gender In Adoption Of Orange Sweet Potato In Uganda. International Food Policy Research Institute (IFPRI) Discussion Paper Series 1353, 1–20.

Gilligan Daniel O, Margolies Amy, Quiñones Esteban, Roy Shalini, 2013. Impact Evaluation Of Cash And Food Transfers At Early Childhood Development Centers In Karamoja, Uganda: Final Impact Report. International Food Policy Research Institute (IFPRI) Discussion Paper Series Not applicable, 1–107.

Gladstone M J, Chandna J, Kandawasvika G, Ntozini R, Majo F D, Tavengwa N V, Mbuya M N. N, Mangwadu G T, Chigumira A, Chasokela C M, Moulton L H, Stoltzfus R J, Humphrey J H, Prendergast A J, 2019. Independent and combined effects of improved water, sanitation, and hygiene (WASH) and improved complementary feeding on early neurodevelopment among children born to HIV-negative mothers in rural Zimbabwe: substudy of a cluster-randomized trial. PLoS Medicine 16, e1002766. https://doi.org/10.1371/journal.pmed.1002766

Glass N, Perrin N, Mpanano M, 2017. A randomized-controlled trial of a livestock asset transfer intervention to improve economic and health outcomes and reduce intimate partner violence in a post-conflict setting. Annals of global health 83, 101-102.

Grellety E, Shepherd S, Roederer T, Manzo M L, Doyon S, Ategbo E A, Grais R F, 2012. Effect of mass supplementation with ready-to-use supplementary food during an anticipated nutritional emergency. PLoS ONE 7, e44549. https://doi.org/10.1371/journal.pone.0044549

Grillenberger Monika, Neumann Charlotte G, Murphy Suzanne P, Bwibo Nimrod O, van't Veer, Pieter, Hautvast Joseph G. A. J, West Clive E, 2003. Food supplements have a positive impact on weight gain and the addition of animal source foods increases lean body mass of Kenyan schoolchildren. Journal of Nutrition 133, 3957S-3964S. https://doi.org/10.1093/jn/133.11.3957S

Gunther Fink, Peter Rockers, 2014. Tools to Improve Parental Recognition of Developmental Deficits in Children. https://clinicaltrials.gov/show/NCT02242539.

Habib-Mourad C, Ghandour L A, Moore H J, Nabhani-Zeidan M, Adetayo K, Hwalla N, Summerbell C, 2014a. Promoting healthy eating and physical activity among school children: findings from Health-E-PALS, the first pilot intervention from Lebanon. BMC Public Health 14, 940–940. https://doi.org/10.1186/1471-2458-14-940

Habib-Mourad C, Ghandour L, Moore H, Hwalla N, Summerbell C, 2014b. An intervention to promote Healthy Eating and Physical Activity in Lebanese School children: health-E-PALS, a pilot cluster randomised controlled trial. Obesity facts 7, 158-159. https://doi.org/10.1159/000363668

Habib-Mourad Carla, Moore Helen, Zeidan Maya Nabhani, Hwalla Nahla, Summerbell Carolyn, 2014. Health-E-PALS: promoting Healthy Eating and Physical Activity in Lebanese school children - Intervention development. Education & Health 32, 3–8.

Haghparast-Bidgoli Hassan, Skordis Jolene, Harris-Fry Helen, Krishnan Sneha, O'Hearn Meghan, Kumar Abhinav, Pradhan Ronali, Mishra Naba Kishore, Upadhyay Avinash, Pradhan Shibananth, Ojha Amit Kumar, Cunningham Sarah, Rath Shibanand, Palmer Tom, Koniz-Booher Peggy, Kadiyala Suneetha, 2019. Protocol for the cost-consequence and equity impact analyses of a cluster randomised controlled trial comparing three variants of a nutrition-sensitive agricultural extension intervention to improve maternal and child dietary diversity and nutritional status in rural Odisha, India (UPAVAN trial). Trials 20, N.PAG-N.PAG. https://doi.org/10.1186/s13063-019-3388-2

Haider B A, Bhutta Z A, 2017. Multiple-micronutrient supplementation for women during pregnancy.

Haider B A, Bhutta Z A, 2015. Multiple-micronutrient supplementation for women during pregnancy.

Haider B A, Bhutta Z A, 2012. Multiple-micronutrient supplementation for women during pregnancy.

Haider B A, Bhutta Z A, 2006. Multiple-micronutrient supplementation for women during pregnancy.

Haider R, Kabir I, Huttly S R. A, Ashworth A, 2002. Training Peer Counselors to Promote and Support Exclusive Breastfeeding in Bangladesh. Journal of Human Lactation 18, 7–12. https://doi.org/10.1177/089033440201800102

Hambidge K M, Krebs N F, Westcott J E, Garces A, Goudar S S, Kodkany B S, Pasha O, Tshefu A, Bose C L, Figueroa L, Goldenberg R L, Derman R J, Friedman J E, Frank D N, McClure E M, Stolka K, Das A, Koso-Thomas M, Sundberg S, 2014. Preconception maternal nutrition: a multi-site randomized controlled trial. BMC pregnancy and childbirth 14, 111. https://doi.org/10.1186/1471-2393-14-111

Hanieh S, Ha T T, Simpson J A, Casey G J, Khuong N C, Thoang D D, Thuy T T, Pasricha S R, Tran T D, Tran Tuan, Dwyer T, Fisher J, Biggs B A, 2013. The effect of intermittent antenatal iron supplementation on maternal and infant outcomes in rural Viet Nam: a cluster randomised trial. PLoS Medicine 10, e1001470. https://doi.org/10.1371/journal.pmed.1001470

Harounan K, de Walque, D, Alderman H, 2009. educational and health impacts of two school feeding schemes: evidence from a randomized trial in rural burkina faso. The world bank report no.: policy research working paper series 4976.

Harrabi I, Maatoug J, Gaha M, Kebaili R, Gaha R, Ghannem H, 2010. School-based intervention to promote healthy lifestyles in Sousse, Tunisia. Indian Journal of Community Medicine 35, 94–99.

He F J, Wu Y, Ma J, Feng X, Wang H, Zhang J, Lin C P, Yuan J, Ma Y, Yang Y, Yan L L, Jan S, Nowson C, Macgregor G A, 2013. A School-based Education Programme to Reduce salt intake in children and their families (School-EduSalt): Protocol of a cluster randomised controlled trial. BMJ Open 3. https://doi.org/10.1136/bmjopen-2013-003388

He Feng J, 2013. A School-based Education Programme to Reduce Salt Intake in Children and Their Families. https://clinicaltrials.gov/show/NCT01821144.

Heckert J, Leroy J L, Bliznashka L, Olney D, Richter S, 2018. Strengthening and Evaluating the Preventing Malnutrition in Children under 2 Years of Age Approach: Guatemala Follow-up Report. FHI, 360.
Heckert J, Leroy J L, Olney D K, Richter S, Iruhiriye E, Ruel M T, 2020. The cost of improving nutritional outcomes through food-assisted maternal and child health and nutrition programmes in Burundi and Guatemala. Maternal and Child Nutrition 16, e12863.
Hemsworth J, Kumwenda C, Arimond M, Maleta K, Phuka J, Rehman A M, Vosti S A, Ashorn U, Filteau S, Dewey K G, Ashorn P, Ferguson E L, 2016. Lipid-based nutrient supplements increase energy and macronutrient intakes from complementary food among Malawian infants. Journal of Nutrition 146, 326–334. https://doi.org/10.3945/jn.115.215327
Henning J, Morton J, Pym R, Hla T, Sunn K, Meers J, 2013. Economic analysis of interventions to improve village chicken production in Myanmar. Preventive veterinary medicine 110, 525–40. https://doi.org/10.1016/j.prevetmed.2013.01.005
Hess S Y, Abbeddou S, Jimenez E Y, Somé J W, Vosti S A, Ouédraogo Z P, Guissou R M, Ouédraogo J B, Brown K H, 2015. Small-quantity lipid-based nutrient supplements, regardless of their zinc content, increase growth and reduce the prevalence of stunting and wasting in young burkinabe children: a cluster-randomized trial.
Hidrobo Melissa, Hoddinott John F, Peterman Amber, Margolies Amy, Moreira Vanessa, 2012. Cash, food, or vouchers?: Evidence from a randomized experiment in northern Ecuador.
Hindle L J, Gitau R, Filteau S M, Newens K J, Osrin D, Costello A M, Tomkins A M, Vaidya A, Mahato R K, Yadav B, Manandhar D S, 2006. Effect of multiple micronutrient supplementation during pregnancy on inflammatory markers in Nepalese women. American Journal of Clinical Nutrition 84, 1086–1092.
Hmone M P, Li M, Agho K, Dibley M J, 2017. Impact of SMS text messages to improve exclusive breastfeeding: a randomized controlled trial in Myanmar. FASEB journal 31.
Hmone Myat Pan, Li Mu, Alam Ashraful, Dibley Michael J, 2017. Mobile Phone Short Messages to Improve Exclusive Breastfeeding and Reduce Adverse Infant Feeding Practices: Protocol for a Randomized Controlled Trial in Yangon, Myanmar. JMIR research protocols 6, e126. https://doi.org/10.2196/resprot.7679
Hoddinot J, Ahmed A, Karachiwalla N I, Roy S, 2017. Nutrition behaviour change communication causes sustained effects on IYCN knowledge in two cluster-randomised trials in Bangladesh.
Hoddinott J, Ahmed I, Akhter Ahmed, Shalini Roy, 2017. Behavior change communication activities improve infant and young child nutrition knowledge and practice of neighboring non-participants in a cluster-randomized trial in rural Bangladesh. PLoS ONE 12, e0179866. https://doi.org/10.1371/journal.pone.0179866
Hoddinott J, Akhter Ahmed, Karachiwalla N I, Shalini Roy, 2018. Nutrition behaviour change communication causes sustained effects on IYCN knowledge in two cluster-randomised trials in Bangladesh. Maternal and Child Nutrition 14, e12498. https://doi.org/10.1111/mcn.12498
Hoddinott John F, SandstrÃ¶m Susanna, Upton Joanna, 2014. The impact of cash and food transfers: Evidence from a randomized intervention in Niger.
Hoddinott John, Maluccio John A, Behrman Jere R, Flores Rafael, Martorell Reynaldo, 2008. Effect of a nutrition intervention during early childhood on economic productivity in Guatemalan adults. The Lancet 371, 411–416. https://doi.org/10.1016/S0140-6736%2808%2960205-6
Hofmeyr GJ, Manyame S, 2017. Calcium supplementation commencing before or early in pregnancy, or food fortification with calcium, for preventing hypertensive disorders of pregnancy (Review). Cochrane Database of Systematic Reviews.
Huybregts L, Becquey E, Zongrone A, Port A le, Khassanova R, Coulibaly L, Leroy J L, Rawat R, Ruel M T, 2017. The impact of integrated prevention and treatment on child malnutrition and health: the PROMIS project, a randomized control trial in Burkina Faso and Mali. BMC Public Health 17. https://doi.org/10.1186/s12889-017-4146-6
Iannotti L L, Lutter C K, Waters W F, Riofrio C A. G, Malo C, Reinhart G, Palacios A, Karp C, Chapnick M, Cox K, Aguirre S, Narvaez L, Lopez F, Rohini Sidhu, Kell P, Jiang XunTian, Fujiwara H, Ory D S, Young R, Stewart C P, 2017. Eggs early in complementary feeding increase choline pathway biomarkers and DHA: a randomized controlled trial in Ecuador. American Journal of Clinical Nutrition 106, 1482–1489. https://doi.org/10.3945/ajcn.117.160515
Iannotti Lora L, Delnatus Jacques R, Odom Audrey R, Eaton Jacob C, Griggs Jennifer J, Brown Sarah, Wolff Patricia B, 2015. Determinants of Anemia and Hemoglobin Concentration in Haitian School-Aged Children. The American journal of tropical medicine and hygiene 93, 1092–8. https://doi.org/10.4269/ajtmh.15-0073
Imdad A, Herzer K, Mayo-Wilson E, Yakoob MY, Bhutta ZA, 2010. Vitamin A supplementation for preventing morbidity and mortality in children six months to five years of age (Protocol).
Imdad Aamer, Herzer Kurt, Mayo-Wilson Evan, Yakoob Mohammad Yawar, Bhutta Zulfiqar A, 2010. Vitamin A supplementation for preventing morbidity and mortality in children from 6 months to 5 years of age. [Comment in: Cochrane Database Syst Rev. 2011;(8):ED000016; PMID: 21833975 [https://www.ncbi.nlm.nih.gov/pubmed/21833975]][Update in: Cochrane Database Syst Rev. 2017 Mar 11;3:CD008524; PMID: 28282701 [https://www.ncbi.nlm.nih.gov/pubmed/28282701]] CD008524. https://doi.org/10.1002/14651858.CD008524.pub2
Inegbedion Henry, Obadiaru Eseosa, Obasaju Barnabas, Asaleye Abiola, Lawal Adedoyin, 2018. Financing Agriculture in Nigeria through Agricultural Extension Services of Agricultural Development Programmes (ADPs). F1000Research 7, 1833. https://doi.org/10.12688/f1000research.16568.2

Ingunn Marie S Engebretsen, Victoria Nankabirwa, Tanya Doherty, Abdoulaye Hama Diallo, Jolly Nankunda, Lars Thore Fadnes, Eva-Charlotte Ekström, Vundli Ramokolo, Nicolas Meda, Halvor Sommerfelt, Debra Jackson, Thorkild Tylleskär, James K Tumwine, 2014. Early infant feeding practices in three African countries: the PROMISE-EBF trial promoting exclusive breastfeeding by peer counsellors. International breastfeeding journal 9, 192–192. https://doi.org/10.1186/1746-4358-9-19

Isrctn, 2016. UPAVAN: upscaling participatory action and videos for agriculture and nutrition. http://www.who.int/trialsearch/Trial2.aspx?TrialID=ISRCTN65922679.

Jack K, Fink G, Masiye F, 2018. The Impact of Advanced Payments on Farmer Welfare and Company Profitability in Zambia.

Jacob Humber, Stephen A Vosti, Joseph Cummins, Malay Mridha, Susana L Matias, Kathryn Dewey, 2017. The Rang-Din Nutrition Study in Rural Bangladesh: The Costs and Cost-Effectiveness of Programmatic Interventions to Improve Linear Growth at Birth and 18 Months, and the Costs of These Interventions at 24 Months.

Jannat Kaniz, Luby Stephen P, Unicomb Leanne, Rahman Mahbubur, Winch Peter J, Parvez Sarker M, Das Kishor K, Leontsini Elli, Ram Pavani K, Stewart Christine P, 2019. Complementary feeding practices among rural Bangladeshi mothers: Results from WASH Benefits study. Maternal & child nutrition 15, e12654. https://doi.org/10.1111/mcn.12654

Jarjou L M. A, Prentice A, Sawo Y, Laskey M A, Bennett J, Goldberg G R, Cole T J, 2006. Randomized, placebo-controlled, calcium supplementation study in pregnant Gambian women: effects on breast-milk calcium concentrations and infant birth weight, growth, and bone mineral accretion in the first year of life. American Journal of Clinical Nutrition 83, 657–666.

Jef L Leroy, Celeste Sununtnasuk, Jessica Heckert, Deanna Olney, 2017. Strengthening and Evaluating the Preventing Malnutrition in Children under 2 Years of Age Approach Burundi Follow-Up Report: Children 24–41 Months.

Jef Leroy, Jessica Heckert, Kenda Cunningham, Deanna Olney, 2014. Strengthening and Evaluating the Preventing Malnutrition in Children under 2 Years of Age Approach. Burundi Follow-Up Report: Children 0–23 Months.

Jelle Mohamed, Grijalva-Eternod Carlos S, Haghparast-Bidgoli Hassan, King Sarah, Cox Cassy L, Skordis-Worrall Jolene, Morrison Joanna, Colbourn Timothy, Fottrell Edward, Seal Andrew J, 2017. The REFANI-S study protocol: a non-randomised cluster controlled trial to assess the role of an unconditional cash transfer, a non-food item kit, and free piped water in reducing the risk of acute malnutrition among children aged 6-59 months living in camps for internally displaced persons in the Afgooye corridor, Somalia. BMC public health 17, 632. https://doi.org/10.1186/s12889-017-4550-y

Jemmott J B, III, Jemmott L S, O'Leary A, Ngwane Z, Icard L, Bellamy S, Jones S, Landis J R, Heeren G A, Tyler J C, Makiwane M B, 2011. Cognitive-behavioural health-promotion intervention increases fruit and vegetable consumption and physical activity among South African adolescents: a cluster-randomised controlled trial. Special Issue: Health promotion interventions. 26, 167–185. https://doi.org/10.1080/08870446.2011.531573

Jimenez-Cruz A, Bacardi-Gascon M, 2011. School based program to promote lifestyle changes to prevent overweight in elementary school children. http://www.who.int/trialsearch/Trial2.aspx?TrialID=ACTRN12611000883910.

Joachim Vandercasteelen, Mekdim Dereje, Bart Minten, Alemayehu Seyoum, Taffesse, 2013. Scaling-up adoption of improved technologies: The impact of the promotion of row planting on farmers' teff yields in Ethiopia.

Jordan I, Kuchenbecker J, Phiri G C, Muhlhoff E, Herrmann J, Krawinkel M B, 2015. Food based nutrition education improved complementary feeding practices and nutritional status of children below 2 years in Malawi. Annals of nutrition and metabolism. Conference: 12th european nutrition conference, FENS 2015. Berlin germany. Conference start: 20151020. Conference end: 20151023. Conference publication: (var.pagings) 67, 471-472. https://doi.org/10.1159/000440895

Jorgensen J M, Arnold C, Ashorn P, Ashorn U, Chaima D, Cheung YinBun, Davis J C. C, Fan YueMei, Goonatilleke E, Kortekangas E, Kumwenda C, Lebrilla C B, Maleta K, Totten S M, Wu L D, Dewey K G, 2017. Lipid-based nutrient supplements during pregnancy and lactation did not affect human milk oligosaccharides and bioactive proteins in a randomized trial. Journal of Nutrition 147, 1867–1874. https://doi.org/10.3945/jn.117.252981

Jorgensen J M, Ashorn P, Ashorn U, Baldiviez L M, Gondwe A, Maleta K, Nkhoma M, Dewey K G, 2018. Effects of lipid-based nutrient supplements or multiple micronutrient supplements compared with iron and folic acid supplements during pregnancy on maternal haemoglobin and iron status. Maternal and Child Nutrition 14, e12640. https://doi.org/10.1111/mcn.12640

Judy McLean, 2011. Effects of a Fortified Dietary Supplement for Pregnant Women on Maternal and Newborn Outcomes in Kampong Chhnang Province, Cambodia. https://clinicaltrials.gov/show/NCT01413776.

Kabahenda M, Mullis R M, Erhardt J G, Northrop-Clewes C, Nickols S Y, 2011. Nutrition education to improve dietary intake and micronutrient nutriture among children in less-resourced areas: A randomized controlled intervention in Kabarole district, Western Uganda. South African Journal of Clinical Nutrition 24, 83–88. https://doi.org/10.1080/16070658.2011.11734355

Kanan Margarita Safdie, 2013. Impact of a school-based intervention program on obesity risk factors in Mexican children. Salud Publica Mex 374–87. https://doi.org/10.21149/spm.v55s3.5138

Kang Y, Suh Y K, 2016. Effects of a community-based nutrition promotion programme on child feeding and hygiene practices among caregivers in rural Eastern Ethiopia.

Kang Yunhee, 2015. Effectiveness of a community-based participatory nutrition promotion program to improve child nutritional status in eastern rural Ethiopia: A cluster randomized trial. Dissertation Abstracts International 81, No-Specified.

Kang Yunhee, Cha Seungman, Yeo Sarah, Christian Parul, 2017. Implementation, utilization and influence of a community-based participatory nutrition promotion programme in rural Ethiopia: programme impact pathway analysis. Public health nutrition 20, 2004–2015. https://doi.org/10.1017/S1368980017000660

Karamba RW, 2013. Input subsidies and their effect on cropland allocation, agricultural productivity, and child nutrition: Evidence from Malawi.

Karlan Dean, Kutsoati Ed, McMillan Margaret, Udry Chris, 2010. Crop price indemnified loans for farmers.

Kathryn G Dewey, 2012. Effectiveness of LNS and MNP Supplements to Prevent Malnutrition in Women and Their Children in Bangladesh. https://clinicaltrials.gov/show/NCT01715038.

Kathryn G Dewey, Malay K Mridha, Susana L Matias, Charles D Arnold, Rebecca T Young, 2017. Long-Term Effects of the Rang-Din Nutrition Study Interventions on Maternal and Child Outcomes.

Kathryn G Dewey, Malay K Mridha, Susana L Matias, Joseph R Cummins, Charles D Arnold, Rebecca T Young, Zeina Maalouf-Manasseh, Stephen A Vosti, 2018. Effectiveness of Home Fortification with Lipid-Based Nutrient Supplements (LNS) or Micronutrient Powder on Child Growth, Development, Micronutrient Status, and Health Expenditures in Bangladesh.

Kaur Jasvir, Kaur Manmeet, Webster Jacqui, Kumar Rajesh, 2018. Protocol for a cluster randomised controlled trial on information technology-enabled nutrition intervention among urban adults in Chandigarh (India): SMART eating trial. Global health action 11, 1419738. https://doi.org/10.1080/16549716.2017.1419738

Keats E C, Imdad A, Bhutta Z A, 2018. Protocol: Effects of vitamin and mineral supplementation during pregnancy on maternal, birth, child health and development outcomes in low- and middle-income countries: a systematic review.

Khan A I, 2013. Effects of pre- and postnatal nutrition interventions on child growth and body composition: the MINIMat trial in rural Bangladesh. Global Health Action 6, 22476.

Khan A I, Hawkesworth S, Ekstrom E C, Shams Arifeen, Moore S E, Frongillo E A, Yunus M, Persson L A, Iqbal Kabir, 2013. Effects of exclusive breastfeeding intervention on child growth and body composition: the MINIMat trial, Bangladesh. Acta Paediatrica 102, 815–823. https://doi.org/10.1111/apa.12282

Khan A I, Iqbal Kabir, Eneroth H, El-Arifeen S, Ekstrom E C, Frongillo E A, Persson L A, 2017. Effect of a randomised exclusive breastfeeding counselling intervention nested into the MINIMat prenatal nutrition trial in Bangladesh. Acta Paediatrica 106, 49–54. https://doi.org/10.1111/apa.13601

Khan A I, Kabir I, Hawkesworth S, Ekstrom E, Arifeen S, Frongillo E A, Persson L A, 2015. Early invitation to food and/or multiple micronutrient supplementation in pregnancy does not affect body composition in offspring at 54 months: follow-up of the MINIMat randomised trial, Bangladesh. Maternal and Child Nutrition 11, 385–397. https://doi.org/10.1111/mcn.12021

Kimani-Murage E, Kimiywe J, Wekesah F, Muriuki P, Wanjohi M, Samburu B, Kabue M, Griffiths P, Madise N, McGarvey S, 2017. Effectiveness of the baby friendly community initiative on exclusive breastfeeding in rural Kenya. Annals of nutrition & metabolism 71, 590-591. https://doi.org/10.1159/000480486

Kimani-Murage E W, Kimiywe J, Kabue M, Wekesah F, Matiri E, Muhia N, Wanjohi M, Muriuki P, Samburu B, Kanyuira J N, Young S L, Griffiths P L, Madise N J, McGarvey S T, 2015a. Feasibility and effectiveness of the baby friendly community initiative in rural Kenya: Study protocol for a randomized controlled trial. Trials 16. https://doi.org/10.1186/s13063-015-0935-3

Kimani-Murage E W, Norris S A, Mutua M K, Wekesah F, Wanjohi M, Muhia N, Muriuki P, Egondi T, Kyobutungi C, Ezeh A C, Musoke R N, McGarvey S T, Madise N J, Griffiths P L, 2015b. Potential effectiveness of Community Health Strategy to promote exclusive breastfeeding in urban poor settings in Nairobi, Kenya: A quasi-experimental study. Journal of Developmental Origins of Health and Disease 7, 172–184. https://doi.org/10.1017/S2040174415007941

Kimani-Murage Elizabeth W, Kyobutungi Catherine, Ezeh Alex C, Wekesah Frederick, Wanjohi Milka, Muriuki Peterrock, Musoke Rachel N, Norris Shane A, Griffiths Paula, Madise Nyovani J, 2013. Effectiveness of personalised, home-based nutritional counselling on infant feeding practices, morbidity and nutritional outcomes among infants in Nairobi slums: study protocol for a cluster randomised controlled trial. Trials 14, 445. https://doi.org/10.1186/1745-6215-14-445

Klevor M K, Adu-Afarwuah S, Ashorn P, Arimond M, Dewey K G, Lartey A, Maleta K, Phiri N, Pyykko J, Zeilani M, Ashorn U, 2016. A mixed method study exploring adherence to and acceptability of small quantity lipid-based nutrient supplements (SQ-LNS) among pregnant and lactating women in Ghana and Malawi.

Knox Jerry, Daccache Andre, Hess Tim, 2013. What is the impact of infrastructural investments in roads, electricity and irrigation on agricultural productivity? Final review.

Kondylis F, Mueller V, 2015. Seeing is Believing? Evidence from a Demonstration Plot Experiment in Mozambique. International Food Policy Research Institute (IFPRI).

Kondylis Florence, Mueller Valerie, Zhu Siyao, 2014. Seeing Is Believing? Evidence From An Extension Network Experiment In Mozambique. 3ie Grantee Final Report Not applicable, Not applicable.

Koo HuiChin, Poh BeeKoon, Ruzita Abd Talib, 2018. The GReat-ChildTM Trial: a quasi-experimental intervention on whole grains with healthy balanced diet to manage childhood obesity in Kuala Lumpur, Malaysia. Nutrients 10, 156. https://doi.org/10.3390/nu10020156

Kramer M S, Chalmers B, Hodnett E D, Sevkovskaya Z, Dzikovich I, Shapiro S, Collet J P, Vanilovich I, Mezen I, Ducruet T, Shishko G, Zubovich V, Mknuik D, Gluchanina E, Dombrovsky V, Ustinovitch A, Ko T, Bogdanovich N, Ovchinikova L, Helsing E, 2000. Promotion of breastfeeding intervention trial (PROBIT): a cluster-randomized trial in the Republic of Belarus. Design, follow-up, and data validation. Advances in experimental medicine and biology 478, 327–45.

Kramer M S, Fombonne E, Igumnov S, Vanilovich I, Matush L, Mironova E, Bogdanovich N, Tremblay R E, Chalmers B, Zhang Xun, Platt R W, 2008. Effects of prolonged and exclusive breastfeeding on child behavior and maternal adjustment: evidence from a large, randomized trial. Pediatrics 121, e435–e440. https://doi.org/10.1542/peds.2007-1248

Kramer M S, Kakuma R, 2003. Energy and protein intake in pregnancy.

Kramer M S, Matush L, Vanilovich I, Platt R W, Bogdanovich N, Sevkovskaya Z, Dzikovich I, Shishko G, Collet J P, Martin R M, et al, 2007. Effects of prolonged and exclusive breastfeeding on child height, weight, adiposity, and blood pressure at age 6.5 y: evidence from a large randomized trial. American journal of clinical nutrition 86, 1717-1721. https://doi.org/10.1093/ajcn/86.5.1717

Kramer M S, Matush L, Vanilovich I, Platt R W, Bogdanovich N, Sevkovskaya Z, Dzikovich I, Shishko G, Collet J P, Martin R M, Smith G D, Gillman M W, Chalmers B, Hodnett E, Shapiro S, Kramer Michael S, Matush Lidia, Vanilovich Irina, Platt Robert W, Bogdanovich Natalia, 2009. A randomized breast-feeding promotion intervention did not reduce child obesity in Belarus. Journal of Nutrition 139, 417S–21S. https://doi.org/10.3945/jn.108.097675

Kramer Michael S, 2010. "Breast is best": The evidence. Early human development 86, 729–32. https://doi.org/10.1016/j.earlhumdev.2010.08.005

Kramer Michael S, Guo Tong, Platt Robert W, Shapiro Stanley, Collet Jean-Paul, Chalmers Beverley, Hodnett Ellen, Sevkovskaya Zinaida, Dzikovich Irina, Vanilovich Irina, PROBIT Study Group, 2002. Breastfeeding and infant growth: biology or bias?. [Comment in: Evid Based Nurs. 2003 Apr;6(2):42; PMID: 12710417 [https://www.ncbi.nlm.nih.gov/pubmed/12710417]] 110, 343–7.

Krebs Nancy F, Hambidge K Michael, Mazariegos Manolo, Westcott Jamie, Goco Norman, Wright Linda L, Koso-Thomas Marion, Tshefu Antoinette, Bose Carl, Pasha Omrana, Goldenberg Robert, Chomba Elwyn, Carlo Waldemar, Kindem Mark, Das Abhik, Hartwell Ty, McClure Elizabeth, Complementary Feeding Study Group, 2011. Complementary feeding: a Global Network cluster randomized controlled trial. BMC pediatrics 11, 4. https://doi.org/10.1186/1471-2431-11-4

Kumordzie S M, Adu-Afarwuah S, Arimond M, Young R R, Adom T, Boatin R, Ocansey M E, Okronipa H, Prado E L, Oaks B M, Dewey K G, 2019. Maternal and infant lipid-based nutritional supplementation increases height of Ghanaian children at 4-6 years only if the mother was not overweight before conception. Journal of Nutrition 149, 847–855. https://doi.org/10.1093/jn/nxz005

Kumwenda C, Hemsworth J, Phuka J, Ashorn U, Arimond M, Maleta K, Prado E L, Haskell M J, Dewey K G, Ashorn P, 2018. Association between breast milk intake at 9-10 months of age and growth and development among Malawian young children. Maternal and Child Nutrition 14, e12582. https://doi.org/10.1111/mcn.12582

Kurpad, 2007. Nutrition and Cognition in Indian Children. https://clinicaltrials.gov/show/NCT00467909.

Langendorf C, Roederer T, de Pee, S, Brown D, Doyon S, Mamaty A A, Touré L W, Manzo M L, Grais R F, 2014. Preventing acute malnutrition among young children in crises: a prospective intervention study in Niger. PLoS medicine 11, e1001714. https://doi.org/10.1371/journal.pmed.1001714

Lanou H, Huybregts L, Roberfroid D, Nikiema L, Kouanda S, Camp J van, Kolsteren P, 2014. Prenatal nutrient supplementation and postnatal growth in a developing nation: an RCT. Pediatrics 133, e1001–e1008. https://doi.org/10.1542/peds.2013-2850

Lapar Lucila A, Toan Nguyen Ngoc, Zou Chengyi, Liu Jinyuan, Li Xianglin, Randolph Thomas, 2011. Assessing the impact of feed technology adoption by smallholders in sweet potato-pig systems in Sichuan, China.

Larson Leila, 2019. The consequences of malnutrition, and effects of multiple micronutrient powders, on young child development in India. Dissertation Abstracts International 80, No-Specified.

Lassi Z S, Zahid G, Das J K, Bhutta Z A, 2013. Systematic review of complementary feeding strategies amongst children less than two years of age. assets.

Lawry S, Samii C, Hall R, Leopold A, Hornby D, Mtero F, 2017. The impact of land property rights interventions on investment and agricultural productivity in developing countries: a systematic review. Journal of Development Effectiveness 9, 61–81.

Leme A C, Philippi S T, 2015. The "Healthy Habits, Healthy Girls" randomized controlled trial for girls: study design, protocol, and baseline results. Cadernos de saude publica 31, 1381-1394. https://doi.org/10.1590/0102-311X00136014

Leroy J L, Olney D K, Ruel M T, 2019. PROCOMIDA, a food-assisted maternal and child health and nutrition program, contributes to postpartum weight retention in Guatemala: a cluster-randomized controlled intervention trial. Journal of Nutrition 149, 2219–2227. https://doi.org/10.1093/jn/nxz175

Leroy Jef L, Gutiérrez Juan Pablo, Gadsden Paola, González-Cossio Teresa, Hernández Licona, Gonzalo, Rivera Juan, 2007. Conditional cash and in-kind transfers increase household total and food consumption in poor rural communities in Mexico. FASEB Journal 21, A54–A54.

Leroy Jef L, Olney Deanna, Ruel Marie, 2018. Tubaramure, a Food-Assisted Integrated Health and Nutrition Program, Reduces Child Stunting in Burundi: A Cluster-Randomized Controlled Intervention Trial. Journal of Nutrition 148, 445–452. https://doi.org/10.1093/jn/nxx063

Lhachimi Stefan K, Seuring Till, 2019. Thou Shalt Be Given . . . but How? A Replication Study and Extended Cost-Effectiveness Analysis of a Randomized Experiment on Food Assistance in Northern Ecuador. Journal of Development Effectiveness 11, 373–90. https://doi.org/10.1080/19439342.2019.1666901

Li B, Liu W J, Adab P, Pallan M, Hemming K, Frew E, Lin R, Martin J, Liu W, Cheng K K, 2017. Cluster-randomised controlled trial to assess the effectiveness and cost-effectiveness of an obesity prevention programme for Chinese primary school-aged children: the CHIRPY DRAGON study protocol. BMJ open 7, e018415. https://doi.org/10.1136/bmjopen-2017-018415

Li Nicole, Yan Lijing J. L, Niu Wenyi, Labarthe Darwin, Feng Xiangxian, Shi Jingpu, Zhang Jianxin, Zhang Ruijuan, Zhang Yuhong, Chu Hongling, Neiman Andrea, Engelgau Michael, Elliott Paul, Wu Yangfeng, Neal Bruce, 2013. A large-scale cluster randomized trial to determine the effects of community-based dietary sodium reduction - the China Rural Health Initiative Sodium Reduction Study. American Heart Journal 166, 815–822. https://doi.org/10.1016/j.ahj.2013.07.009

Li Xian, Jan S, Yan L L, Hayes A, Chu YunBo, Wang HaiJun, Feng XiangXian, Niu WenYi, He F J, Ma Jun, Han Yanbo, MacGregor G A, Wu YangFeng, 2017. Cost and cost-effectiveness of a school-based education program to reduce salt intake in children and their families in China. PLoS ONE 12, e0183033. https://doi.org/10.1371/journal.pone.0183033

Li Y, Hu X, Zhang Q, Liu A, Fang H, Hao L, Duan Y, Xu H, Shang X, Ma J, Xu G, Du L, Li Y, Guo H, Li T, Ma G, 2009. The nutrition-based comprehensive intervention study on childhood obesity in China. BMC Public Health 10, 7. https://doi.org/10.1186/1471-2458-10-229

Lind T, Seswandhana R, Persson L A, Lonnerdal B, 2008. Iron supplementation of iron-replete Indonesian infants is associated with reduced weight-for-age. Acta Paediatrica 97, 770–775. https://doi.org/10.1111/j.1651-2227.2008.00773.x

Liverpool-Tasie Lenis Saweda O, 2012. Did Using Input Vouchers Improve The Distribution Of Subsidized Fertilizer In Nigeria? The Case Of Kano And Taraba States. International Food Policy Research Institute (IFPRI) Discussion Paper Series Not applicable, 1–21.

Loevinsohn Michael, Sumberg Jim, Diagne Aliou, Whitfield Stephen, 2013. Under What Circumstances And Conditions Does Adoption Of Technology Result In Increased Agricultural Productivity? Institute of Development Studies (IDS) Not applicable, Not applicable.

Longitudinal measures of circulating leptin and ghrelin concentrations are associated with the growth of young Peruvian children but are not affected by zinc supplementation, 2007. . American journal of clinical nutrition AJN 86, 1111–1119.

Low Jan W, Arimond Mary, Osman Nadia, Cunguara Benedito, Zano Filipe, Tschirley David, 2007. Ensuring the supply of and creating demand for a biofortified crop with a visible trait: lessons learned from the introduction of orange-fleshed sweet potato in drought-prone areas of Mozambique. Food and nutrition bulletin 28, S258-70.

Luo R, Shi Y, Zhang L, Zhang H, Miller G, Medina A, Rozelle S, 2012. The limits of health and nutrition education: evidence from three randomized-controlled trials in rural China. CESifo Economic Studies 58, 385–404.

Luttikhuis H O, Baur L, Jansen H, Shrewsbury V A, O'Malley C, Stolk R P, Summerbell C D, 2009. Interventions for treating obesity in children.

Luz Maria De-Regil, Cristina Palacios, Lia K Lombardo, Juan Pablo Peña-Rosa, 2016. Vitamin D supplementation for women during pregnancy. Cochrane Database of Systematic Reviews.

M Arantxa Colchero, Barry M Popkin, Juan A Rivera, Shu Wen Ng, 2016. Beverage purchases from stores in Mexico under the excise tax on sugar sweetened beverages: observational study. BMJ 352. https://doi.org/10.1136/bmj.h6704

Ma Yuan, Feng XiangXian, Ma Jun, He F J, Wang HaiJun, Zhang Jing, Xie WuXiang, Wu Tao, Yin YunJian, Yuan JianHui, MacGregor G A, Wu YangFeng, 2019. Social support, social network and salt-reduction behaviours in children: a substudy of the School-EduSalt trial. BMJ Open 9, e028126.

Mahmudiono T, Nindya T S, Andrias D R, Megatsari H, Rosenkranz R R, 2016. The effectiveness of nutrition education for overweight/obese mothers with stunted children (NEO-MOM) in reducing the double burden of malnutrition in Indonesia: study protocol for a randomized controlled trial. BMC Public Health 16.

Maluccio J A, Hoddinott J F, Behrman J F, Martorell R, Quisumbing A R, Stein A D, 2006. The Impact of Nutrition during Early Childhood on Education among Guatemalan Adults.

Mangani C, Cheung YinBun, Maleta K, Phuka J, Thakwalakwa C, Dewey K, Manary M, Puumalainen T, Ashorn P, 2014. Providing lipid-based nutrient supplements does not affect developmental milestones among Malawian children. Acta Paediatrica 103, e17–e26. https://doi.org/10.1111/apa.12443

Marion Krämer, Santosh Kumar, Sebastian Vollmer, 2018. Improving Child Health and Cognition: Evidence from a School-Based Nutrition Intervention in India.

Marius Smuts, 2013. Randomized Controlled Trial in South Africa Comparing the Efficacy of Complementary Food Products on Child Growth. https://clinicaltrials.gov/show/NCT01845610.

Marlene Chakhtoura, Elie Akl, Asma Arabi, Sara El Ghandour, Khaled Shawwa, Ghada El Hajj, 2014. Effects of different doses of Vitamin D replacement in Middle Eastern and North African population: a systematic review and meta-analysis.

Marquis G, Colecraft E, Aryeetey R, Aidam B, Kanlisi R, 2017. Putting our eggs in more than one basket-lessons learned from working with multiple sectors in rural Ghana. Annals of nutrition & metabolism 71, 265-266. https://doi.org/10.1159/000480486

Marquis G S, Colecraft E K, Kanlisi R, Pinto C, Aryeetey R, Aidam B, Bannerman B, 2017. Improving children's diet and nutritional status through an agriculture intervention with Nutrition education in Upper Manya Krobo district of Ghana. FASEB journal 31.

Martin Richard M, Patel Rita, Kramer Michael S, Guthrie Lauren, Vilchuck Konstantin, Bogdanovich Natalia, Sergeichick Natalia, Gusina Nina, Foo Ying, Palmer Tom, Rifas-Shiman Sheryl L, Gillman Matthew W, Smith George Davey, Oken Emily, 2013. Effects of promoting longer-term and exclusive breastfeeding on adiposity and insulin-like growth factor-I at age 11.5 years: a randomized trial. JAMA: Journal of the American Medical Association 309, 1005–1013. https://doi.org/10.1001/jama.2013.167

Martinez S, 2018. SPOON: sustained Program for Improving Nutrition - Guatemala. Cochrane Central Register of Controlled Trials (CENTRAL) 2018. https://doi.org/10.1017/s0007114516003433

Masuda K, Chitundu M, 2019. Multiple micronutrient supplementation using spirulina platensis and infant growth, morbidity, and motor development: evidence from a randomized trial in Zambia. PloS one 14, e0211693. https://doi.org/10.1371/journal.pone.0211693

Matias S L, Mridha M K, Fahmida Tofail, Arnold C D, Khan M S. A, Zakia Siddiqui, Ullah M B, Dewey K G, 2017. Home fortification during the first 1000 d improves child development in Bangladesh: a cluster-randomized effectiveness trial. American Journal of Clinical Nutrition 105, 958–969. https://doi.org/10.3945/ajcn.116.150318

Matias S L, Mridha M K, Paul R R, Sohrab Hussain, Vosti S A, Arnold C D, Dewey K G, 2016. Prenatal lipid-based nutrient supplements affect maternal anthropometric indicators only in certain subgroups of rural Bangladeshi women. Journal of Nutrition 146, 1775–1782. https://doi.org/10.3945/jn.116.232181

Matias S L, Mridha M K, Young R T, Khan M S. A, Zakia Siddiqui, Ullah M B, Vosti S A, Dewey K G, 2018a. Prenatal and postnatal supplementation with lipid-based nutrient supplements reduces anemia and iron deficiency in 18-month-old Bangladeshi children: a cluster-randomized effectiveness trial. Journal of Nutrition 148, 1167–1176. https://doi.org/10.1093/jn/nxy078

Matias S L, Mridha M K, Young R T, Sohrab Hussain, Dewey K G, 2018b. Daily maternal lipid-based nutrient supplementation with 20 mg iron, compared with iron and folic acid with 60 mg iron, resulted in lower iron status in late pregnancy but not at 6 months postpartum in either the mothers or their infants in Bangladesh. Journal of Nutrition 148, 1615–1624. https://doi.org/10.1093/jn/nxy161

Matsumoto Tomoya, Yamano Takashi, Sserunkuuma Dick, 2013. Technology Adoption And Dissemination In Agriculture: Evidence From Sequential Intervention In Maize Production In Uganda. GRIPS Discussion Paper 13–14, 1–58.

Maureen M Black, Madhavan K Nair, 2012. Project Grow Smart: intervention Trial of Multiple Micronutrients and Early Learning Among Infants in India. https://clinicaltrials.gov/show/NCT01660958.

Maya Adam, Mark Tomlinson, Ingrid Le Roux, Amnesty E LeFevre, Shannon A McMahon, Jamie Johnston, Angela Kirton, Nokwanele Mbewu, Stacy-Leigh Strydom, Charles Prober, Till Bärnighausen, 2019. The Philani MOVIE study: a cluster-randomized controlled trial of a mobile video entertainment-education intervention to promote exclusive breastfeeding in South Africa. https://clinicaltrials.gov/show/NCT03688217.

Mduduzi N N Mbuya 1, Cynthia R Matare 2, Naume V Tavengwa 1, Bernard Chasekwa 1, Robert Ntozini 1, Florence D Majo 1, Ancikaria Chigumira 3, Cynthia M Z Chasokela 3, Andrew J Prendergast 4, Lawrence H Moulton 5, Rebecca J Stoltzfus 2, Jean H Humphrey 5, SHINE Trial Team, 2019. Early Initiation and Exclusivity of Breastfeeding in Rural Zimbabwe: Impact of a Breastfeeding Intervention Delivered by Village Health Workers. Current Developments in Nutrition 3. https://doi.org/10.1093/cdn/nzy092

Meah S, 2001. A breastfeeding intervention increased breast feeding and reduced GI tract infections and atopic eczema. Evidence Based Nursing.

Mehdizadeh Hakkak, A, Nematy M, Khadem-Rezaiyan M, Norouzy A, Sardar M A, Vatanparast H, 2019. IMPLEMENTING AND PILOT TESTING OF A CUSTOMIZED INTERVENTION TO INCREASE PHYSICAL ACTIVITY AND HEALTHY EATING AMONG PRESCHOOL CHILDREN: a RANDOMIZED CONTROLLED TRIAL. Clinical nutrition (Edinburgh, Scotland) 38, S151-. https://doi.org/10.1016/S0261-5614(19)32880-8

Menon P, Nguyen P, Kim S, Saha K K, Frongillo E, Ruel M, Rawat R, 2017. Scaling up, sustaining, and spinning off: alive & thrive's lessons on infant and young child feeding in three countries, and implications for beyond impact: intervention results from alive & thrive. Annals of nutrition & metabolism 71, 121-122. https://doi.org/10.1159/000480486

Michael Hambidge, 2008. Development and Health of Rural Chinese Children Fed Meat as a Daily Complementary Food From 6-18 Mos of Age. https://clinicaltrials.gov/show/NCT00726102.

Moore S E, Prentice A M, Coward W A, Wright A, Frongillo E A, Fulford A J. C, Mander A P, Persson L A, Arifeen S E, Iqbal Kabir, 2007. Use of stable-isotope techniques to validate infant feeding practices reported by Bangladeshi women receiving breastfeeding counseling. American Journal of Clinical Nutrition 85, 1075–1082.

More calories or more diversity?: an econometric evaluation of the impact of the PROGRESA and PROCAMPO transfer programs on food security in rural Mexico, 2002. . Economic and Social Department, FAO, 2002.

Morseda Chowdhury, 2016. Promotion of a balanced diet for pregnant women to improve birthweight of infants: a cluster randomised controlled trial in rural Bangladesh. http://www.who.int/trialsearch/Trial2.aspx?TrialID=ACTRN12616000080426.

Mridha M K, Matias S L, Paul R R, Sohrab Hussain, Khan M S. A, Zakia Siddiqui, Barkat Ullah, Mostofa Sarker, Mokbul Hossain, Young R T, Arnold C D, Dewey K G, 2017. Daily consumption of lipid-based nutrient supplements containing 250 micro g iodine does not increase urinary iodine concentrations in pregnant and postpartum women in Bangladesh. Journal of Nutrition 147, 1586–1592.

Murphy S P, Gewa C, Grillenberger M, Bwibo N O, Neumann C G, 2007. Designing snacks to address micronutrient deficiencies in rural Kenyan schoolchildren. Journal of Nutrition 137, 1093–1096.

Murphy S P, Gewa C, Liang L J, Grillenberger M, Bwibo N O, Neumann C G, 2003. School snacks containing animal source foods improve dietary quality for children in rural Kenya. Journal of Nutrition 133, 3950S-3956S.

Nabulsi M, Hamadeh H, Tamim H, Kabakian T, Charafeddine L, Yehya N, Sinno D, Sidani S, 2013. A complex breastfeeding promotion and support intervention in a developing country. BMC Public Health 14. https://doi.org/10.1186/1471-2458-14-36

Naomi M Saville, Bhim P Shrestha, Sarah Style, Helen Harris-Fry, B James Beard, Aman Sengupta, Sonali Jha, Anjana Rai, Vikas Paudel, Anni-Maria Pulkki-Brannstrom, rew Copas, Jolene Skordis-Worrall, Bishnu Bh,

ari, Rishi Neupane, Joanna Morrison, Lu Gram, Raghbendra Sah, Machhindra Basnet, Jayne Harthan, Dharma S Man, har, David Osrin, Anthony Costello, 2013. The Low Birth Weight in South Asia Trial (LBWSAT): can birth weight in the plains of Nepal be cost-effectively increased using a behaviour change strategy (BSC) involving women?s groups alone or by BCS with either a food or cash transfer? http://www.who.int/trialsearch/Trial2.aspx?TrialID=ISRCTN75964374.

Nct, 2017a. Nudging, Healthy Diet and Physical Activity. https://clinicaltrials.gov/show/NCT03136016.

Nct, 2017b. Interventions to Promote Healthy Eating and Physical Activity in Lebanese School Children Targeting Overweight and Obesity- Pilot Study. https://clinicaltrials.gov/show/NCT03040258.

Nct, 2016a. Haiti Rural School Feeding Study: effect of Vita Mamba on Anemia and Hemoglobin Concentrations. https://clinicaltrials.gov/show/NCT02747524.

Nct, 2016b. Evaluating Bundling of Nutrition-specific Interventions. https://clinicaltrials.gov/show/NCT02768181.

Nct, 2016c. Alive & Thrive Nigeria Impact Evaluation. https://clinicaltrials.gov/show/NCT02975063.

Nct, 2015a. Malezi Na Kilimo Bora - Skilful Parenting and Agribusiness Child Abuse Prevention Study. https://clinicaltrials.gov/show/NCT02633319.

Nct, 2015b. Intervention in Minimizing Aflatoxins and Fumonisins Exposure to Children Through Food and Breastfeeding in Tanzania. https://clinicaltrials.gov/show/NCT02438774.

Nct, 2015c. Home Fortification of Complementary Foods in Bihar India. https://clinicaltrials.gov/show/NCT02593136.

Nct, 2015d. Extended Pilot Project Community Based Production of Complementary Food in Ethiopia. https://clinicaltrials.gov/show/NCT02484495.

Nct, 2014a. Transfer Modality Research Initiative - Bangladesh. https://clinicaltrials.gov/show/NCT02237144.

Nct, 2014b. Safe and Efficacious Iron for Children in Kenya. https://clinicaltrials.gov/show/NCT02073149.

Nct, 2014c. Healthy Habits, Healthy Girls Preventing Unhealthy Weight Gain. https://clinicaltrials.gov/show/NCT02228447.

Nct, 2014d. Feeding Trial of Bio-fortified Pearl Millet. https://clinicaltrials.gov/show/NCT02152150.

Nct, 2014e. Efficacy of a Multiple Micronutrient-Fortified Lipid-Based Nutrient Supplement for Children Under Two in Cambodia. https://clinicaltrials.gov/show/NCT02257762.

Nct, 2014f. Creating Homestead Agriculture for Nutrition and Gender Equity (CHANGE) in Burkina Faso. https://clinicaltrials.gov/show/NCT02236468.

Nct, 2014g. Acceptability Among Children and Caregivers of Amylase Porridges. https://clinicaltrials.gov/show/NCT02192892.

Nct, 2013a. Helen Keller International's Enhanced-Homestead Food Production Program in Burkina Faso. https://clinicaltrials.gov/show/NCT01825226.

Nct, 2013b. Effect of African Leafy Vegetables on Nutritional Status of South African School Children. https://clinicaltrials.gov/show/NCT01920646.

Nct, 2013c. Different Strategies for Preventing Severe Acute Malnutrition in Niger. https://clinicaltrials.gov/show/NCT01828814.

Nct, 2013d. Building Capacity for Sustainable Livelihoods and Health. https://clinicaltrials.gov/show/NCT01985243.

Nct, 2012. Complementary Food Supplements for Reducing Childhood Undernutrition. https://clinicaltrials.gov/show/NCT01562379.

Nct, 2011. Iron Absorption From Complementary Food Fortificants (CFFs) and Acceptability of CFFs by Beninese Children. https://clinicaltrials.gov/show/NCT01321099.

Nct, 2010a. Peer Conselling Infant Feeding Education Program. https://clinicaltrials.gov/show/NCT01333995.

Nct, 2010b. First Bites: complementary Feeding - A Global Network Cluster Randomized Controlled Trial. https://clinicaltrials.gov/show/NCT01084109.

Nct, 2010c. Efficacy of Newborn Vitamin A Supplementation Versus Placebo in Improving Child Survival (NeoVitA Trial). https://clinicaltrials.gov/show/NCT01138449.

Nct, 2009a. Efficacy of Micronutrient Fortified Yoghurt in School Children for Health Benefits. https://clinicaltrials.gov/show/NCT00980733.

Nct, 2009b. Efficacy of Lipid-Based Nutrient Supplements (LNS) for Pregnant and Lactating Women and Their Infants. https://clinicaltrials.gov/show/NCT00970866.

Nct, 2009c. Effect of Prenatal Nutritional Supplementation on Birth Outcome in Hounde District, Burkina Faso. https://clinicaltrials.gov/show/NCT00909974.

Nct, 2008a. Efficacy of Multiple Micronutrient Fortified Biscuits and Deworming in Vietnamese School Children. https://clinicaltrials.gov/show/NCT00728273.

Nct, 2008b. Effect of Iron Fortified Wheat Flour on Cognition and Iron Status in Indian School Children. https://clinicaltrials.gov/show/NCT00741143.

Nct, 2006. Iron-fortified Whole Maize Flour Trial. https://clinicaltrials.gov/show/NCT00386074.

Neumann C G, Bwibo N O, Murphy S P, Sigman M, Whaley S, Allen L H, Guthrie D, Weiss R E, Demment M W, 2003. Animal Source Foods Improve Dietary Quality, Micronutrient Status, Growth and Cognitive Function in Kenyan School Children: Background, Study Design and Baseline Findings. Journal of Nutrition 133, 3941S-3949S.

Neumann Charlotte G, Bwibo Nimrod O, Murphy Suzanne P, Sigman Marian, Whaley Shannon, Allen Lindsay H, Guthrie Donald, Weiss Robert E, Demment Montague W, 2003. Animal source foods improve dietary quality, micronutrient status, growth and cognitive function in Kenyan school children: background, study design and baseline findings. The Journal of nutrition 133, 3941S-3949S. https://doi.org/10.1093/jn/133.11.3941S

Nguyen P H, Lowe A E, Martorell R, Hieu Nguyen, Hoa Pham, Son Nguyen, Harding K B, Neufeld L M, Reinhart G A, Ramakrishnan U, 2012. Rationale, design, methodology and sample characteristics for the Vietnam pre-conceptual micronutrient supplementation trial (PRECONCEPT): a randomized controlled study. BMC Public Health 12.

Nguyen Phuong H, Kim Sunny S, Keithly Sarah C, Hajeebhoy Nemat, Tran Lan M, Ruel Marie T, Rawat Rahul, Menon Purnima, 2014. Incorporating elements of social franchising in government health services improves the quality of infant and young child feeding counselling services at commune health centres in Vietnam. Health Policy and Planning 29, 1008–1020. https://doi.org/10.1093/heapol/czt083

Nirmala Nair, Prasanta Tripathy, Sachdev H S, Sanghita Bhattacharyya, Rajkumar Gope, Sumitra Gagrai, Shibanand Rath, Suchitra Rath, Rajesh Sinha, Roy S S, Suhas Shewale, Vijay Singh, Aradhana Srivastava, Hemanta Pradhan, Costello A, Copas A, Skordis-Worrall J, Haghparast-Bidgoli H, Saville N, Prost A, 2015. Participatory women's groups and counselling through home visits to improve child growth in rural eastern India: protocol for a cluster randomised controlled trial. BMC Public Health 15.

Nirmala Rao, Jin Sun, Jessie M S. Wong, Brendan Weekes, Patrick Ip, Sheldon Shaeffer, Mary Young, Mark Bray, Eva Chen, Diana Lee, 2014. Early childhood development and cognitive development in developing countries: A rigorous literature review.

Nita Bh, ari, Sarmila Mazumder, Rajiv Bahl, Jose Martines, Robert E Black, † Maharaj K. Bhan, 2, other members of the Infant Feeding Study Group3, 2004. educational intervention to promote appropriate complementary feeding practices and physical growth in infants and young children in rural Haryana, India. Journal of nutrition 134, 2342–2348.

Nkonki L L, Daviaud E, Jackson D, Chola L, Doherty T, Chopra M, Robberstad B, 2014. Costs of promoting exclusive breastfeeding at community level in three sites in South Africa. Plos one 9, e79784. https://doi.org/10.1371/journal.pone.0079784

Null C, Stewart C P, Pickering A J, Dentz H N, Arnold B F, Arnold C D, Benjamin-Chung J, Clasen T, Dewey K G, Fernald L C. H, Hubbard A E, Kariger P, Lin A, Luby S P, Mertens A, Njenga S M, Nyambane G, Ram P K, Colford J M, Jr, 2018. Effects of water quality, sanitation, handwashing, and nutritional interventions on diarrhoea and child growth in rural Kenya: a cluster-randomised controlled trial. Lancet Global Health 6, e316–e329. https://doi.org/10.1016/S2214-109X(18)30005-6

Nyathela T, 2017. Nutrition intervention making a difference: assessment of the impact of a feeding programme on the nutritional status of pre-school children in gauteng province, South Africa. Annals of nutrition & metabolism 71, 703-. https://doi.org/10.1159/000480486

Ocansey M E, Adu-Afarwuah S, Kumordzie S M, Okronipa H, Young R R, Tamakloe S M, Oaks B M, Dewey K G, Prado E L, 2019. Prenatal and postnatal lipid-based nutrient supplementation and cognitive, social-emotional, and motor function in preschool-aged children in Ghana: a follow-up of a randomized controlled trial. American Journal of Clinical Nutrition 109, 322–334. https://doi.org/10.1093/ajcn/nqy303

Ochoa A, Ochoa Aviles, A, Verstraeten R, Andrade Tenesaca, D S, Andrade Munoz, D J, Ramirez Jimbo, P L, Donoso Moscoso, S P, Kolsteren P, 2017. Process evaluation of the cluster randomized controlled trial activital-a school-based health promotion intervention. Annals of nutrition & metabolism 71, 403-. https://doi.org/10.1159/000480486

Ochoa-Aviles A, Ochoa Aviles A, Andrade Tenesaca DS, Verstraeten R, Huybregts L, Lachat C, Ramirez Jimbo PL, Andrade Munoz DJ, Donoso Moscoso SP, 2017. Effect of the school-based health promotion intervention activital on dietary intake and waist circumference: a cluster randomized controlled trial. Annals of nutrition & metabolism 71, 1272-1273. https://doi.org/10.1159/000480486

Oelofse A, 2001. Micronutrient deficiencies in South African infants and the effect of a micronutrient-fortified complementary food on their nutritional status, growth and development. Micronutrient deficiences in South African infants and and the effect of a micronutrient-fortified complementary food on their nutritional status, growth and development. Wageningen; Netherlands.

Okronipa H, Arimond M, Arnold C D, Young R R, Adu-Afarwuah S, Tamakloe S M, Ocansey M E, Kumordzie S M, Oaks B M, Mennella J A, Dewey K G, 2019a. Exposure to a slightly sweet lipid-based nutrient supplement during early life does not increase the level of sweet taste most preferred among 4- to 6-year-old Ghanaian children: follow-up of a randomized controlled trial. American Journal of Clinical Nutrition 109, 1224–1232. https://doi.org/10.1093/ajcn/nqy352

Okronipa H, Arimond M, Young R R, Arnold C D, Adu-Afarwuah S, Tamakloe S M, Bentil H J, Ocansey M E, Kumordzie S M, Oaks B M, Dewey K G, 2019b. Exposure to a slightly sweet lipid-based nutrient supplement during early life does not increase the preference for or consumption of sweet foods and beverages by 4-6-y-old Ghanaian preschool children: follow-up of a randomized controlled trial. Journal of Nutrition 149, 532–541. https://doi.org/10.1093/jn/nxy293

Oliver Cumming, Benjamin F Arnold, Radu Ban, Thomas Clasen, Joanna Esteves Mills, Matthew C Freeman, Bruce Gordon, Raymond Guiteras, Guy Howard, Paul R Hunter, Richard B Johnston, Amy J Pickering, rew J Prendergast, Annette Prüss-Ustün, Jan Willem Rosenboom, Dean Spears, Shelly Sundberg, Jennyfer Wolf, Clair Null, Stephen P Luby, Jean H Humphrey, John M Colford Jr, 2019. The implications of three major new trials for the effect of water, sanitation and hygiene on childhood diarrhea and stunting: a consensus statement. BMC Medicine 17. https://doi.org/10.1186/s12916-019-1410-x

Olney D K, Dillon A, Ruel M T, Nielsen J, 2016. Lessons Learned from the Evaluation of Helen Keller International's Enhanced Homestead Food Production Program.

Olney D K, Leroy J, Bliznashka L, Ruel M T, 2018. PROCOMIDA, a food-assisted maternal and child health and nutrition program, reduces child stunting in Guatemala: a cluster-randomized controlled intervention trial. Journal of Nutrition 148, 1493–1505. https://doi.org/10.1093/jn/nxy138

Olney D K, Leroy J L, Bliznashka L, Ruel M T, 2019. A multisectoral food-assisted maternal and child health and nutrition program targeted to women and children in the first 1000 days increases attainment of language and motor milestones among young Burundian children. Journal of Nutrition 149, 1833–1842.
Olney D K, Pedehombga A, Ruel M T, Dillon A, 2015. A 2-year integrated agriculture and nutrition and health behavior change communication program targeted to women in Burkina Faso reduces anemia, wasting, and diarrhea in children 3-12.9 months of age at baseline: A cluster-randomized controlled trial. Journal of Nutrition 145, 1317–1324. https://doi.org/10.3945/jn.114.203539
Omotilewa Oluwatoba J, Ricker-Gilbert Jacob, Ainembabazi Herbert, Shively Gerald, 2016. Impacts of Improved Storage Technology among Smallholder Farm Households in Uganda.
Osei A K, 2009. Micronutrient deficiencies among schoolchildren in India: Effectiveness of a community level micronutrient fortification. Dissertation Abstracts International 70, 3443.
Osei A K, Houser R F, Bulusu S, Hamer D H, 2008. Acceptability of micronutrient fortified school meals by schoolchildren in rural Himalayan villages of India. Journal of Food Science 73, S354–S358. https://doi.org/10.1111/j.1750-3841.2008.00878.x
Osendarp S J. M, van Raaij J M. A, Arifeen S E, Wahed M A, Baqui A H, Fuchs G J, 2000. A randomized, placebo-controlled trial of the effect of zinc supplementation during pregnancy on pregnancy outcome in Bangladeshi urban poor. American Journal of Clinical Nutrition 71, 114–119. https://doi.org/10.1093/ajcn/71.1.114
Ota E, Tobe-Gai R, Mori R, Farrar D, 2012. Antenatal dietary advice and supplementation to increase energy and protein intake.
Oyinlola Oyebode, 2015. Salt reduction interventions in Sub-Saharan Africa: a systematic review.
Palacios C, De-Regil L M, Lombardo L K, Peña-Rosas J, 2016. Vitamin D supplementation during pregnancy: Updated meta-analysis on maternal outcomes. The Journal of Steroid Biochemistry and Molecular Biology 164. https://doi.org/10.1016/j.jsbmb.2016.02.008
Pan Dan, 2014. The impact of agricultural extension on farmer nutrient management behavior in Chinese rice production: a household-level analysis. Sustainability 6, 6644–6665. https://doi.org/10.3390/su6106644
Patrick Kolsteren, 2013. ω3 LCPUFAs for Healthy Growth and Development of Infants and Young Children in Southwest Ethiopia. https://clinicaltrials.gov/show/NCT01817634.
Peña-Rosas JP, De-Regil LM, Dowswell T, Viteri FE, 2012. Intermittent oral iron supplementation during pregnancy (Review).
Per Ashorn, Basho Poelman, Kathryn G Dewey, Kenneth Maleta, Nigel Klein, Stephen Rogerson, Steven R Meshnick, 2017. The Impact of Dietary Supplementation with Lipid-Based Nutrient Supplements on Maternal Health and Pregnancy Outcomes in Rural Malawi.
Perry H, Rassekh B, Gupta S, Wilhelm J, Freeman P, 2017. Comprehensive review of the evidence regarding the effectiveness of community–based primary health care in improving maternal, neonatal and child health: 1. rationale, methods and database description.
Phuong Hong Nguyen, Frongillo E A, Sanghvi T, Wable G, Mahmud Z, Lan Mai Tran, Aktar B, Kaosar Afsana, Alayon S, Ruel M T, Menon P, 2018. Engagement of husbands in a maternal nutrition program substantially contributed to greater intake of micronutrient supplements and dietary diversity during pregnancy: results of a cluster-randomized program evaluation in Bangladesh. Journal of Nutrition 148, 1352–1363. https://doi.org/10.1093/jn/nxy090
Pickering A J, Null C, Winch P J, Mangwadu G, Arnold B F, Prendergast A J, Njenga S M, Rahman M, Ntozini R, Benjamin-Chung J, Stewart C P, Huda T M. N, Moulton L H, Colford J M, Jr, Luby S P, Humphrey J H, 2019. The WASH Benefits and SHINE trials: interpretation of WASH intervention effects on linear growth and diarrhoea. Lancet Global Health 7, e1139–e1146. https://doi.org/10.1016/S2214-109X(19)30268-2
Pinto Rafael Lavourinha, de Souza, Bárbara da Silva Nalin, Antunes Anna Beatriz Souza, De Cnop, Mara Lima, Sichieri Rosely, Cunha Diana Barbosa, 2019. Papass clinical trial protocol: a multi-component school-based intervention study to increase acceptance and adherence to school feeding. BMC Public Health 19, N.PAG-N.PAG. https://doi.org/10.1186/s12889-019-7988-2
Prado E L, Alcock K J, Muadz H, Ullman M T, Shankar A H, 2012. Maternal multiple micronutrient supplements and child cognition: a randomized trial in Indonesia. Pediatrics 130, e536–e546. https://doi.org/10.1542/peds.2012-0412
Prado E L, Maleta K, Ashorn P, Ashorn U, Vosti S A, Sadalaki J, Dewey K G, 2016. Effects of maternal and child lipid-based nutrient supplements on infant development: a randomized trial in Malawi. American Journal of Clinical Nutrition 103, 784–793. https://doi.org/10.3945/ajcn.115.114579
Prado Elizabeth L, Phuka John, Maleta Kenneth, Ashorn Per, Ashorn Ulla, Vosti Steve A, Dewey Kathryn G, 2016. Provision of lipid-based nutrient supplements from age 6 to 18 months does not affect infant development scores in a randomized trial in Malawi. Maternal and Child Health Journal 20, 2199–2208. https://doi.org/10.1007/s10995-016-2061-6
Praneetvatakul Suwanna, Waibel Hermann, 2006. The Impact Of Farmer Field Schools On Pesticide Use And Environment In Thailand.
Pratiwi Ayu, Suzuki Aya, 2019. Reducing Agricultural Income Vulnerabilities through Agroforestry Training: Evidence from a Randomised Field Experiment in Indonesia. Bulletin of Indonesian Economic Studies 55, 83–116. https://doi.org/10.1080/00074918.2018.1530726
Prawirohartono E P, Nystrom L, Ivarsson A, Stenlund H, Lind T, 2011. The impact of prenatal vitamin A and zinc supplementation on growth of children up to 2 years of age in rural Java, Indonesia.
Premji S S, Fenton T, Sauve R S, 2006. Higher versus lower protein intake in formula-fed low birth weight infants.

Premji S S, Fenton T, Sauve R S, 2003. Higher versus lower protein intake in formula-fed low birth weight infants.

Procházková B, Procházka J, Dryšlová T, Hledík P, 2008. Effect of different intensity of soil tillage on yields of spring barley 3, 237–238.

Purnima Menon, Phuong Hong Nguyen, Saha K K, Adiba Khaled, Sanghvi T, Baker J, Kaosar Afsana, Raisul Haque, Frongillo E A, Ruel M T, Rahul Rawat, 2016. Combining intensive counseling by frontline workers with a nationwide mass media campaign has large differential impacts on complementary feeding practices but not on child growth: results of a cluster-randomized program evaluation in Bangladesh. Journal of Nutrition 146, 2075–2084. https://doi.org/10.3945/jn.116.232314

Purnima Menon, Sunny S Kim, 2016. Impact Evaluation of a Multi-Sectoral Community-Based Approach to Improving Infant and Young Child Feeding in Amhara, Ethiopia. https://clinicaltrials.gov/show/NCT02775552.

Quintero-Gutierrez A G, Mariaca-Gaspar G I, Villanueva-Sanchez J, Polo J, Rodriguez C, Gonzalez-Rosendo G, 2012. Acceptability and use of heme-iron concentrate product added to chocolate biscuit filling as an alternative source of a highly available form of iron. CyTA - Journal of Food 10, 112–118. https://doi.org/10.1080/19476337.2011.596284

Quizan-Plata T, Meneses L V, Romero J E, Barragan C A, Moreno S G, Garcia M E. O, Lopez A E, 2012. Intervention to promote physical activity and dietary lifestyle changes in students attending public primary schools of Sonora Mexico. FASEB journal 26.

Rahman M S, Norton G W, 2019. Adoption and impacts of integrated pest management in Bangladesh: Evidence from smallholder bitter gourd growers. Horticulturae 5, 32. https://doi.org/10.3390/horticulturae5020032

Ramakrishnan U, Gonzalez-Cossio T, Neufeld L M, Rivera J, Martorell R, 2003. Multiple micronutrient supplementation during pregnancy does not lead to greater infant birth size than does iron-only supplementation: a randomized controlled trial in a semirural community in Mexico. American Journal of Clinical Nutrition 77, 720–725. https://doi.org/10.1093/ajcn/77.3.720

Rana M, Nguyen Van H, Nguyen Ngoc T, 2017. Effectiveness of Community-based Infant and Young Child (IYCF) Support Group Model in Reducing Child Undernutrition Among Ethnic Minorities in Vietnam.

Randomized Breast-feeding Promotion Intervention Did Not Reduce Child Obesity in Belarus, 2009. . Journal of nutrition 139.

Rich-Edwards J W, Ganmaa D, Pollack M N, Nakamoto E K, Kleinman K, Tserendolgor U, Willett W C, Frazier L, 2007. Milk consumption and the prepubertal somatotropic axis. Nutrition Journal 6.

Roberfroid D, Huybregts L, Habicht J P, Lanou H, Henry M C, Meda N, d'Alessandro U, Kolsteren P, 2011. Randomized controlled trial of 2 prenatal iron supplements: is there a dose-response relation with maternal hemoglobin? American Journal of Clinical Nutrition 93, 1012–1018. https://doi.org/10.3945/ajcn.110.006239

Roberfroid D, Huybregts L, Lanou H, Habicht J P, Henry M C, Meda N, Kolsteren P, 2012. Prenatal micronutrient supplements cumulatively increase fetal growth. Journal of Nutrition 142, 548–554. https://doi.org/10.3945/jn.111.148015

Roberfroid D, Huybregts L, Lanou H, Henry M C, Meda N, Kolsteren P, 2010. Effect of maternal multiple micronutrient supplements on cord blood hormones: a randomized controlled trial. American Journal of Clinical Nutrition 91, 1649–1658.

Roberfroid D, Huybregts L, Lanou H, Henry M C, Meda N, Menten J, 2008. Effects of maternal multiple micronutrient supplementation on fetal growth: a double-blind randomized controlled trial in rural Burkina Faso.

Robert Rebecca C, Gittelsohn Joel, Creed-Kanashiro Hilary M, Penny Mary E, Caulfield Laura E, Narro M Rocio, Black Robert E, 2006. Process evaluation determines the pathway of success for a health center-delivered, nutrition education intervention for infants in Trujillo, Peru. The Journal of nutrition 136, 634–41.

Rumbold A, Crowther C A, 2005. Vitamin C supplementation in pregnancy.

Rumbold A, Crowther C A, 2003. Vitamin C supplementation in pregnancy.

Ruth Hall, Donna Hornby, Steven Lawry, Aaron Leopold, Farai Mtero, Cyrus Samii, 2012. PROTOCOL: The Impact of Land Property Rights Interventions on Agricultural Productivity in Developing Countries: A Systematic Review. Campbell Systematic Reviews 1. https://doi.org/10.1002/CL2.91

Saaka M, Oosthuizen J, Beatty S, 2009. Effect of joint iron and zinc supplementation on malarial infection and anaemia.

Sachdev H P. S, Gera T, 2011. EFFECT OF IRON FORTIFIED FOODS ON HEMATOLOGICAL RESPONSE AND ZINC STATUS: SYSTEMATIC REVIEW OF RANDOMIZED CONTROLLED TRIALS.

Safdie M, Levesque L, Gonzalez-Casanova I, Salvo D, Islas A, Hernandez-Cordero S, Bonvecchio A, Rivera J A, 2013. Promoting healthful diet and physical activity in the Mexican school system for the prevention of obesity in children. Interventions for preventing obesity in Latin American populations. 55, S357–S373.

Saijuddin Shaikh, 1, 2 Rebecca K Campbell, 2 Sucheta Mehra, 2 Alamgir Kabir, 3 Kerry J Schulze, 2 Lee Wu, 2 Hasmot Ali, 1, 2 Abu Ahmed Shamim, 4 Keith P West, Jr, 2, Parul Christian2, 2020. Supplementation with Fortified Lipid-Based and Blended Complementary Foods has Variable Impact on Body Composition Among Rural Bangladeshi Children: A Cluster-Randomized Controlled Trial. The Journal of Nutrition 150, 1924–1932.

Salazar Lina, Aramburu Julián, González Mario, Winters Paul, 2015. Food Security and Productivity: Impacts of Technology Adoption in Small Subsistence Farmers in Bolivia.

Samuel P Scott 1, Laura E Murray-Kolb 1, Michael J Wenger 2, Shobha A Udipi 3, Padmini S Ghugre 3, Erick Boy 4, Jere D Haas 5, 2018. Cognitive Performance in Indian School-Going Adolescents Is Positively Affected by Consumption of Iron-Biofortified Pearl Millet: A 6-Month Randomized Controlled Efficacy Trial.

Sanchez H, Albala C, Lera L, Dangour A D, Uauy R, 2013. Effectiveness of the National Program of Complementary Feeding for older adults in Chile on vitamin B12 status in older adults; Secondary outcome analysis from the CENEX Study (ISRCTN48153354). Nutrition Journal 12. https://doi.org/10.1186/1475-2891-12-124

Sanchez Hugo, Albala Cecilia, Lera Lydia, Castillo Jose Luis, Verdugo Renato, Lavados Manuel, Hertrampf Eva, Brito Alex, Allen Lindsay, Uauy Ricardo, 2011. Comparison of two modes of vitamin B12 supplementation on neuroconduction and cognitive function among older people living in Santiago, Chile: a cluster randomized controlled trial. a study protocol [ISRCTN 02694183]. Nutrition journal 10, 100. https://doi.org/10.1186/1475-2891-10-100

Sanglestsawai Santi, 2012. Economic and Risk Effects of Bt Corn and Integrated Pest Management Farmer Field Schools: A Developing Country Perspective. North Carolina State University.

Schmidt M K, 2001. The role of maternal nutrition in growth and health of Indonesian infants: a focus on vitamin A and iron. The role of maternal nutrition in growth and health of Indonesian infants: a focus on vitamin A and iron 118-pp.

Schmidt M K, Muslimatun S, Schultink W, West C E, Hautvast J G. A. J, 2002. Randomised double-blind trial of the effect of vitamin A supplementation of Indonesian pregnant women on morbidity and growth of their infants during the first year of life. European Journal of Clinical Nutrition 56, 338–346. https://doi.org/10.1038/sj.ejcn.1601318

Schwab B, Margolies A, Hoddinott J, 2013. Impact Evaluation of Cash and Food Transfers for the Seasonal Emergency Safety Net in Hajjah and Ibb Governorates: Yemen Endline Report.

Sethi, 2016. Integrated multisectoral strategy to improve girlsâ?? and womenâ??s nutrition before conception, during pregnancy and after birth in India (Swabhimaan). http://www.who.int/trialsearch/Trial2.aspx?TrialID=CTRI/2016/11/007482.

Sguassero Y, de Onis, M, Carroli G, 2005. Community-based supplementary feeding for promoting the growth of young children in developing countries. [Update in: Cochrane Database Syst Rev. 2012;6:CD005039; PMID: 22696347 [https://www.ncbi.nlm.nih.gov/pubmed/22696347]] CD005039.

Shafiei L, Taymoori P, Maleki A, Sayehmiri K, 2017. The effect of educational intervention based on an Ecological-social model on consuming fruit and vegetables in women in Ilam. Electronic Physician 9, 5954–5959. https://doi.org/10.19082/5954

Shalini Roy, Daniel Gilligan, 2013. The Impact of Cash and Food Transfers Linked to Preschool Enrollment on Child Nutrition and Cognitive Outcomes. https://clinicaltrials.gov/show/NCT01763502.

Shi L, Zhang J, Wang Y, Caulfield L E, Guyer B, 2010. Effectiveness of an educational intervention on complementary feeding practices and growth in rural China: a cluster randomised controlled trial. Public Health Nutrition 13, 556–565. https://doi.org/10.1017/S1368980009991364

Shi Ling, 2008. A randomized community-based educational intervention to improve infant feeding practices in rural China. Dissertation Abstracts International 69, 2276.

Shukri N H. M, Wells J, Mukhtar F, Lee M H. S, Fewtrell M, 2017. Study protocol: an investigation of motherinfant signalling during breastfeeding using a randomised trial to test the effectiveness of breastfeeding relaxation therapy on maternal psychological state, breast milk production and infant behaviour and growth. International Breastfeeding Journal 12. https://doi.org/10.1186/s13006-017-0124-y

Sibson V L, Grijalva-Eternod C S, Bourahla L, Haghparast-Bidgoli H, Morrison J, Puett C, Trenouth L, Seal A, 2015. The REFANI-N study protocol: a cluster-randomised controlled trial of the effectiveness and cost-effectiveness of early initiation and longer duration of emergency/seasonal unconditional cash transfers for the prevention of acute malnutrition among children, 6-59 months, in Tahoua, Niger. BMC Public Health 15.

Sichieri R, Trotte A P, de S.R.A., Veiga G V, 2008. School randomised trial on prevention of excessive weight gain by discouraging students from drinking sodas.

Siekmann J H, Allen L H, Watnik M R, Nestel P, Neumann C G, Shoenfeld Y, Peter J B, Patnik M, Ansari A A, Coppel R L, Gershwin M E, 2003. Titers of antibody to common pathogens: relation to food-based interventions in rural Kenyan schoolchildren. American Journal of Clinical Nutrition 77, 242–249.

Silvenus O K, 2012. The WinFood Intervention Study: the effect of improved complementary foods on nutrition and health among infants in Western Kenya. Cochrane Central Register of Controlled Trials 2019. https://doi.org/10.1186/ISRCTN30012997

Sinha B, Chowdhury R, Sankar M J, Martines J, Taneja S, Mazumder S, Rollins N, Bahl R, Bhandari N, 2015. Interventions to improve breastfeeding outcomes: a systematic review and meta-analysis. Acta pediatrica 104, 114-134. **https://doi.org/10.1111/apa.13127**

Skoufias E, Gonzalez-Cossio T, 2008. The Impacts of Cash and In-Kind Transfers on Consumption and Labor Supply: experimental Evidence from Rural Mexico. *Research Working Paper; No. 4778. Washington, DC: World Bank. World Bank. https://openknowledge.worldbank.org/handle/10986/6294.*

Smuts C M, Benadé A S, Berger J, Hop L T, de Romaña G L, Untoro J, Karyadi E, Erhardt J, Gross R, 2003. IRIS I: A FOODlet-based multiple-micronutrient intervention in 6-to 12-month-old infants at high risk of micronutrient malnutrition in four contrasting populations: Description of a multicenter field trial. Food Nutr Bull 24, 27-33 https://doi.org/10.1177/15648265030243S105

Smuts C M, Dhansay M A, Faber M, van Stuijvenberg M E, Swanevelder S, Gross R, Benade A S, 2005. Efficacy of multiple micronutrient supplementation for improving anemia, micronutrient status, and growth in South African infants. Journal of Nutrition 135, 653s-659s. https://doi.org/10.1093/jn/135.3.653S

Some J W, Abbeddou S, Jimenez E Y, Hess S Y, Ouedraogo Z P, Guissou R M, Vosti S A, Ouedraogo J B, Brown K H, 2015. Effect of zinc added to a daily small-quantity lipid-based nutrient supplement on

diarrhoea, malaria, fever and respiratory infections in young children in rural Burkina Faso: a cluster-randomised trial. BMJ Open 5, e007828. https://doi.org/10.1136/bmjopen-2015-007828

Sperandio N, Rodrigues C T, Franceschini S do C. C, Priore S E, 2016. Impact of the Bolsa familia Program on energy, macronutrient, and micronutrient intakes: study of the Northeast and Southeast. Revista de Nutricao 29, 833–844. https://doi.org/10.1590/1678-98652016000600008

Stefan Dercon, Daniel O Gilligan, John Hoddinott, Tassew Woldehanna, 2007. The impact of roads and agricultural extension on consumption growth and poverty in fifteen Ethiopian villages.

Stein A D, Wang M, Ramirez-Zea M, Flores R, Grajeda R, Melgar P, Ramakrishnan U, Martorell R, 2006. Exposure to a nutrition supplementation intervention in early childhood and risk factors for cardiovascular disease in adulthood: evidence from Guatemala. American Journal of Epidemiology 164, 1160–1170. https://doi.org/10.1093/aje/kwj328

Stewart C, Kariger P, Fernald L, Pickering A, Arnold C, Arnold B, Hubbard A, Dentz H, Lin A, 2018. Effects of water quality, sanitation, handwashing, and nutritional interventions on child development in rural Kenya (WASH Benefits Kenya): a cluster-randomised controlled trial. Lancet Child Adolesc Health 2018 2, 269–280.

Stewart C P, Christian P, LeClerq S C, West K P, Jr, Khatry S K, 2009. Antenatal supplementation with folic acid+iron+zinc improves linear growth and reduces peripheral adiposity in school-age children in rural Nepal. American Journal of Clinical Nutrition 90, 132–140. https://doi.org/10.3945/ajcn.2008.27368

Steyn Nelia P, de Villiers, Anniza, Gwebushe Nomonde, Draper Catherine E, Hill Jillian, de Waal, Marina, Dalais Lucinda, Abrahams Zulfa, Lombard Carl, Lambert Estelle V, 2015. Did HealthKick, a randomised controlled trial primary school nutrition intervention improve dietary quality of children in low-income settings in South Africa?. BMC public health 15, 948. https://doi.org/10.1186/s12889-015-2282-4

Suchdev P S, De-Regil L M, Walleser S, Vist G E, Peña-Rosas J P, 2011. Multiple micronutrient powders for home (point of use) fortification of foods in pregnant women: a systematic review.

Surkan P J, Shankar M, Katz J, Siegel E H, LeClerq S C, Khatry S K, Stoltzfus R J, Tielsch J M, 2012. Beneficial effects of zinc supplementation on head circumference of Nepalese infants and toddlers: a randomized controlled trial. European Journal of Clinical Nutrition 66, 836–842. https://doi.org/10.1038/ejcn.2012.42

Surkan P J, Siegel E H, Patel S A, Katz J, Khatry S K, Stoltzfus R J, LeClerq S C, Tielsch J M, 2013. Effects of zinc and iron supplementation fail to improve motor and language milestone scores of infants and toddlers. Nutrition 29, 542–548. https://doi.org/10.1016/j.nut.2012.09.003

Susan Richter, Elyse Iruhiriye, Jessica Heckert, Celeste Sununtnasuk, Marie Ruel, Jef Leroy, Deanna Olney Ruel, 2018. Cost Study of the Preventing Malnutrition in Children under 2 Years of Age Approach in Burundi and Guatemala.

Svefors Pernilla, Selling Katarina Ekholm, Shaheen Rubina, Khan Ashraful Islam, Persson Lars-Ake, Lindholm Lars, 2018. Cost-effectiveness of prenatal food and micronutrient interventions on under-five mortality and stunting: Analysis of data from the MINIMat randomized trial, Bangladesh. PloS one 13, e0191260. https://doi.org/10.1371/journal.pone.0191260

Talsma E F, 2014. Yellow cassava: efficacy of provitamin A rich cassava on improvement of vitamin A status in Kenyan schoolchildren. Yellow cassava: efficacy of provitamin A rich cassava on improvement of vitamin A status in Kenyan schoolchildren. Wageningen; Netherlands.

Talukder A, Mundy G, Hou K, Stormer A, Michaux K, McLean J, Whitfield K C, Lynd L, Green T J, Wesley A, 2017. The role of small scale aquaculture and enhanced homestead food production in improving household food security and nutrition. Annals of nutrition & metabolism 71, 214-215. https://doi.org/10.1159/000480486

Hidrobo M, Peterman A and Heise L. 2014. The effect of cash, vouchers and food transfers on intimate partner violence / Evidence from a randomized experiment in Northern Ecuador. American Economic Journal: Applied economics 8. 284-303.

Pal R K. 2018. The goodness of fresh coconut. Indian Coconut Journal 61, 6–8.

Gine X. 2011. The Impact of Commitment Savings Accounts : The Case of Malawi. Finance & PSD Impact *15. World Bank, Washington, DC. World Bank. https://openknowledge.worldbank.org/handle/10986/10081*

The impact of solar market gardens on child growth, iron and vitamin a status in the kalale district of Norther Benin, 2017. Annals of nutrition & metabolism Conference: 21st International Congress of Nutrition, IC, 1308. https://doi.org/10.1159/000480486

The Sanitation Hygiene Infant Nutrition Efficacy (SHINE) trial: rationale, design, and methods., 2015. Special Issue: The Sanitation Hygiene Infant Nutrition Efficacy (SHINE) Trial. 61, S685–S702.

Thome K, Taylor J E, Davis B, Darko Osei R, Osei-Akoto I, n.d. Local Economy-wide Impact Evaluation (LEWIE) of Ghana's Livelihood Empowerment Against Poverty (LEAP) Programme.

Tielsch J M, Khatry S K, Stoltzfus R J, Katz J, LeClerq S C, Ramesh Adhikari, Mullany L C, Shardaram Shresta, Black R E, 2006. Effect of routine prophylactic supplementation with iron and folic acid on preschool child mortality in southern Nepal: community-based, cluster-randomised, placebo-controlled trial. Lancet (British edition) 367, 144–152. https://doi.org/10.1016/S0140-6736(06)67963-4

Toe L C, Bouckaert K P, Beuf K de, Roberfroid D, Meda N, Thas O, Camp J van, Kolsteren P W, Huybregts L F, 2015. Seasonality modifies the effect of a lipid-based nutrient supplement for pregnant rural women on birth length. Journal of Nutrition 145, 634–639. https://doi.org/10.3945/jn.114.203448

Ton G, Desiere S, Vellema W, Weituschat S, D'Haese M, 2017. The effectiveness of contract farming for raising income of smallholder farmers in low- and middle-income countries: a systematic review. Campbell Systematic Reviews 13, (12 December 2017)-(12 December 2017).

Ton G, Velemma W, Desiere S, Weituschat S, D'Haese M, 2016. EFFECTIVENESS OF CONTRACT FARMING FOR IMPROVING INCOME OF SMALLHOLDER FARMERS -Preliminary results of a systematic review-.

Tran Huu Bich, Dinh Thi Phuong Hoa, Nguyen Thanh Ha, Le Thi Vui, Dang Thi Nghia, Malqvist M, 2016. Father's involvement and its effect on early breastfeeding practices in Viet Nam. Maternal and Child Nutrition 12, 768–777. https://doi.org/10.1111/mcn.12207

Trehan I, Benzoni N S, Wang A Z, Bollinger L B, Ngoma T N, Chimimba U K, Stephenson K B, Agapova S E, Maleta K M, Manary M J, 2015. Common beans and cowpeas as complementary foods to reduce environmental enteric dysfunction and stunting in Malawian children: study protocol for two randomized controlled trials.

Tumwine J K, Nankabirwa V, Diallo H A, Engebretsen I M. S, Ndeezi G, Bangirana P, Sanou A S, Kashala-Abotnes E, Boivin M, Giordani B, Elgen I B, Holding P, Kakooza-Mwesige A, Skylstad V, Nalugya J, Tylleskar T, Meda N, 2018. Exclusive breastfeeding promotion and neuropsychological outcomes in 5-8 year old children from Uganda and Burkina Faso: Results from the PROMISE EBF cluster randomized trial. PLoS ONE 13. https://doi.org/10.1371/journal.pone.0191001

Ullah M B, Mridha M K, Arnold C D, Matias S L, Khan M S. A, Zakia Siddiqui, Mokbul Hossain, Paul R R, Dewey K G, 2019. Newborn physical condition and breastfeeding behaviours: secondary outcomes of a cluster-randomized trial of prenatal lipid-based nutrient supplements in Bangladesh. Maternal and Child Nutrition 15, e12844.

Umi Fahmida, 2014. Food-Based Intervention and Psychosocial Stimulation to Improve Growth & Development of < 24 Month Indonesian Children. https://clinicaltrials.gov/show/NCT02078271.

UNDP, 2014. Evaluation of Food & Nutrition Security Project In Jordan.

Vaidya Anjana, Saville Naomi, Shrestha Bhim Prasad, Costello Anthony M. de L, Manandhar Dharma S, Osrin David, 2008. Effects of antenatal multiple micronutrient supplementation on children's weight and size at 2 years of age in Nepal: Follow-up of a double-blind randomised controlled trial. The Lancet 371, 492–499. https://doi.org/10.1016/S0140-6736%2808%2960172-5

Vakili R, Vahedian M, Khodaei G H, Mahmoudi M, 2009. Effects of zinc supplementation in occurrence and duration of common cold in school aged children during cold season: a double-blind placebo-controlled trial. Iranian Journal of Pediatrics 19, 376–444.

van den Broek N, Dou L, Othman M, Neilson J P, Gates S, Gülmezoglu A M, 2010a. Vitamin A supplementation during pregnancy for maternal and newborn outcomes.

van den Broek N, Dou L, Othman M, Neilson J P, Gülmezoglu A M, 2010b. Vitamin A supplementation during pregnancy for maternal and newborn outcomes.

Vandercasteelen J, Dereje M, Minten B, Taffesse A S, 2020. From agricultural experiment station to farm: The impact of the promotion of a new technology on farmers' yields in Ethiopia. Economic Development and Cultural Change 68, 965–1007. https://doi.org/10.1086/701234

Vandercasteelen Joachim, Dereje Mekdim, Minten Bart, Taffesse Alemayehu Seyoum, 2016. Row Planting Teff In Ethiopia: Impact On Farm-Level Profitability And Labor Allocation. Ethiopia Strategy Support Program (ESSP) Working Paper Series 92, 1–26.

Vandercasteelen Joachim, Regassa Mekdim Dereje, Minten Bart, Taffesse Alemayehu Seyoum, 2018. Perceptions, impacts, and rewards of row planting 97.

Veena Shatrugna, Nagalla Balakrishna, Kamala Krishnaswamy, 2006. Effect of micronutrient supplement on health and nutritional status of schoolchildren: bone health and body composition. Special issue: Effect of micronutrient supplement on health and nutritional status of schoolchildren. 22, S33–S39. https://doi.org/10.1016/j.nut.2005.07.010

Vilchis-Gil J, Klünder-Klünder M, Duque X, Flores-Huerta S, 2016. Decreased body mass index in schoolchildren after yearlong information sessions with parents reinforced with web and mobile phone resources: Community trial. Journal of Medical Internet Research 18. https://doi.org/10.2196/jmir.5584

Vitolo Marcia Regina, Bortolini Gisele Ane, Campagnolo Paula Dal Bo, Hoffman Daniel J, 2012. Maternal dietary counseling reduces consumption of energy-dense foods among infants: a randomized controlled trial. Journal of nutrition education and behavior 44, 140–7. https://doi.org/10.1016/j.jneb.2011.06.012

W S S. Chee, A.R.S., S.P. Chan, Y Zaitun, Y M Chan, 2003. The effect of milk supplementation on bone mineral density in postmenopausal Chinese women in Malaysia. Osteoporosis International 14, 828–834.

Walton Colleen G, 2014. Sustainable livelihoods and food and nutrition security of Kenyan smallholder farm women. Dissertation Abstracts International 74, No-Specified.

Wang D, Stewart D, Chang C, Ji Y, Shi Y, 2014. Effect of interventions to improve adolescents' nutrition knowledge in China. Health Education 114, 322–330. https://doi.org/10.1108/HE-11-2013-0058

Wang DongXu, Stewart D, Yuan YanFei, Chang Chun, 2015. Do health-promoting schools improve nutrition in China? Health Promotion International 30, 359–368. https://doi.org/10.1093/heapro/dat047

Wang Dongxu, Stewart Donald, Chang Chun, 2016. A holistic school-based nutrition program fails to improve teachers' nutrition-related knowledge, attitudes and behaviour in rural China. Health Education 116, 467–475. https://doi.org/10.1108/HE-05-2015-0018

Wang Dongxu, Stewart Donald, Chang Chun, Shi Yuhui, 2015. Effect of a school-based nutrition education program on adolescents' nutrition-related knowledge, attitudes and behaviour in rural areas of China. Environmental health and preventive medicine 20, 271–8. https://doi.org/10.1007/s12199-015-0456-4

Warinda Enock, Nyariki Dickson M, Wambua Stephen, Muasya Reuben M, Hanjra Munir A, 2020. Sustainable development in East Africa: impact evaluation of regional agricultural development projects in Burundi, Kenya, Rwanda, Tanzania, and Uganda. Natural Resources Forum 44, 3–39. https://doi.org/10.1111/1477-8947.12191

Waters H R, Penny M E, Creed-Kanashiro H M, Robert R C, Narro R, Willis J, Caulfield L E, Black R E, 2006. The cost-effectiveness of a child nutrition education programme in Peru. Health Policy and Planning 21, 257–264. https://doi.org/10.1093/heapol/czl010

Weinhardt L S, Galvao L W, Mwenyekonde T, Grande K M, Stevens P, Yan A F, Mkandawire-Valhmu L, Masanjala W, Kibicho J, Ngui E, Emer L, Watkins S C, 2014. Methods and protocol of a mixed method quasi-experiment to evaluate the effects of a structural economic and food security intervention on HIV vulnerability in rural Malawi: the SAGE4Health Study. SpringerPlus 3.

Xu Fei, Ware R S, Tse LapAh, Wang ZhiYong, Hong Xin, Song AiJu, Li JieQuan, Wang Y F, 2012. A school-based comprehensive lifestyle intervention among Chinese kids against obesity (CLICKObesity): rationale, design and methodology of a randomized controlled trial in Nanjing city, China. BMC Public Health 12.

Yang SeungMi, Platt R W, Dahhou M, Kramer M S, 2014. Do population-based interventions widen or narrow socioeconomic inequalities? The case of breastfeeding promotion. International Journal of Epidemiology 43, 1284–1292.

Yankho Kaimila, Oscar Divala, Sophia E Agapova, Kevin B Stephenson, 2019. Consumption of animal-source protein is associated with improved height-for-age Z scores in rural malawian children aged 12–36 months. Nutrients 11. https://doi.org/10.3390/nu11020480

Yao Pan, Stephen C Smith, Munshi Sulaiman, 2015. Agricultural Extension and Technology Adoption for Food Security: Evidence from Uganda.

Yousafzai Aisha K, Rasheed Muneera A, Rizvi Arjumand, Armstrong Robert, Bhutta Zulfiqar A, 2014. Effect Of Integrated Responsive Stimulation And Nutrition Interventions In The Lady Health Worker Programme In Pakistan On Child Development, Growth, And Health Outcomes: A Cluster-Randomised Factorial Eff Ectiveness Trial. The Lancet 384, 1282–1293.

International Initiative for Impact Evaluation. 2011. Zero child hunger: breaking the cycle of malnutrition. https://www.3ieimpact.org/sites/default/files/2017-12/evidence_matters_november.pdf

Zhang Jingxu, Shi Ling, Chen Dafang, Wang Jing, Wang Yan, 2009. Using the Theory of Planned Behavior to examine effectiveness of an educational intervention on infant feeding in China. Preventive Medicine 49, 529–534. https://doi.org/10.1016/j.ypmed.2009.10.002

Zhang P, He F J, Li Y, Li C, Wu J, Ma J, Zhang B, Wang H, Li Y, Han J, Luo R, He J, Li X, Liu Y, Wang C, Tan M, MacGregor G A, Li X, 2020. Reducing salt intake in China with “Action on salt China” (ASC): Protocol for campaigns and randomized controlled trials. JMIR Research Protocols 9. https://doi.org/10.2196/15933

Ziaei S, Rahman A, Raqib R, Lonnerdal B, Ekstrom E C, 2016. A prenatal multiple micronutrient supplement produces higher maternal vitamin B-12 concentrations and similar folate, ferritin, and zinc concentrations as the standard 60-mg iron plus 400- micro G folic acid supplement in rural Bangladeshi women. Journal of Nutrition 146, 2520–2529. https://doi.org/10.3945/jn.116.235994

References appendices:

1. HLPE. 2017. Nutrition and food systems. A report by the High Level Panel of Experts on Food Security and Nutrition of the Committee on World Food Security, Rome.
2. Reeves BC, Wells GA, Waddington H. Quasi-experimental study designs series-paper 5: a checklist for classifying studies evaluating the effects on health interventions-a taxonomy without labels. *Journal of Clinical Epidemiology* 2017; **89**: 30-42.
3. Aloe A.M., Becker B.J., Duvendack M., Valentine J.C., Shemilt I., Waddington H. Quasi-experimental study designs series-paper 9: collecting data from quasi-experimental studies. *J Clin Epidemiol.* 2017;**89**:77–83.

4. Snilstveit B, Bhatia R, Rankin K, Leach B. 3ie evidence gap maps: a starting point for strategic evidence production and use, 3ie Working Paper 28. New Delhi: International Initiative for Impact Evaluation (3ie). 2017.