

## Supplemental Info for:

### **Changes in household food security, access to health services, and income in northern Lao PDR during the COVID-19 pandemic: a cross-sectional survey**

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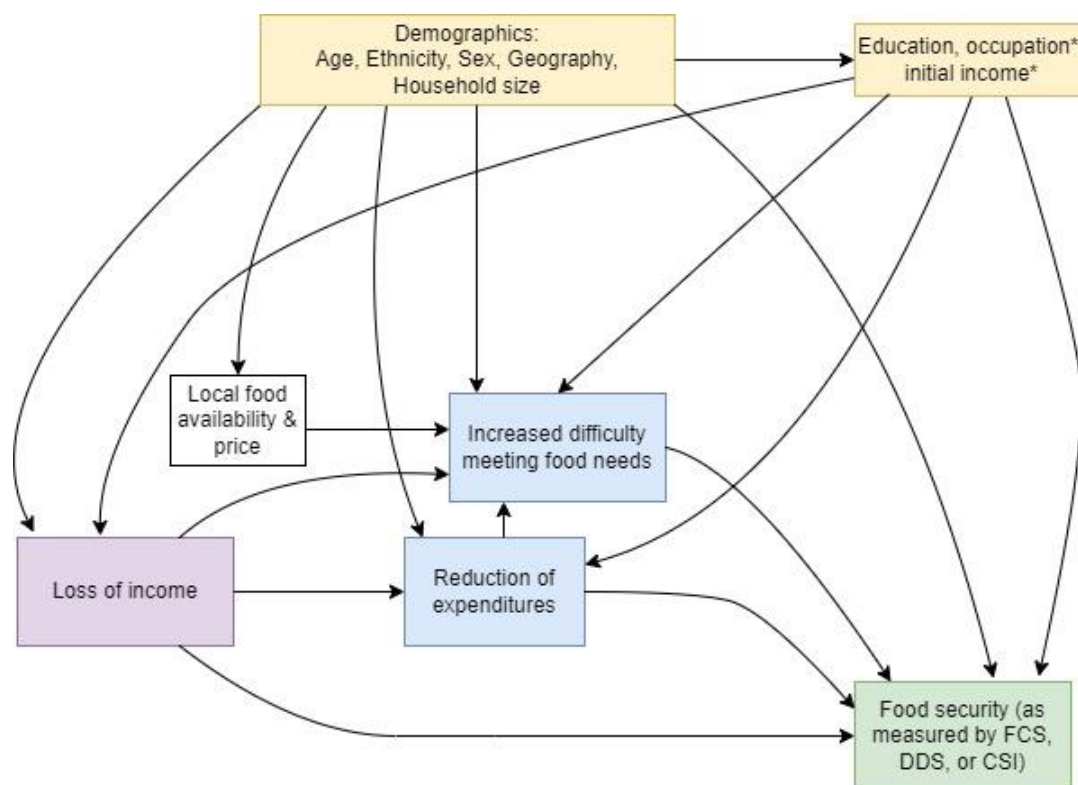
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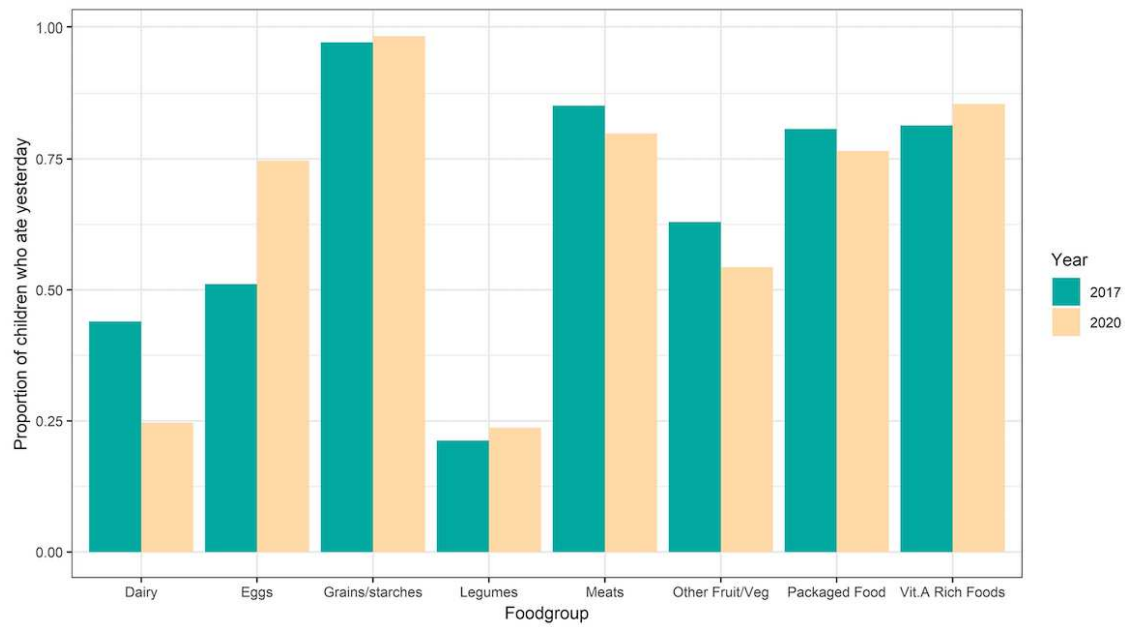
**Table S1.** Multivariate model results adding additional covariates to the model. Coefficients represent the difference in indicator between households who self-reported that it is harder to access food during the pandemic and those who report no change/easier; and those who decreased spending during the pandemic and those who did not. Adjusted models for households control for household ethnicity, household size, education level of mother and the head of household, district, **total expenditures**, and **percent of expenditures spent on food**. Adjusted models for mothers include additionally mother's age. Adjusted models for children include additionally child's age and sex. FCS = food consumption score; CSI = coping strategy index; DDS = dietary diversity score. Lower values for FCS and DDS and higher values of CSI indicate greater food insecurity.

	Model coefficients (95% CI)	
	Harder to access food during the pandemic	Decreased expenditures during the pandemic
FCS	-2.76 (-5.03, -0.50)*	-5.10 (-6.94, -3.27)*
CSI	0.23 (-0.81, 1.27)	1.46 (0.52, 2.41)*
DDS (child)	-0.23 (-0.45, -0.01)*	-0.10 (-0.30, 0.10)
DDS (mother)	-0.11 (-0.35, 0.14)	0.06 (-0.14, 0.25)

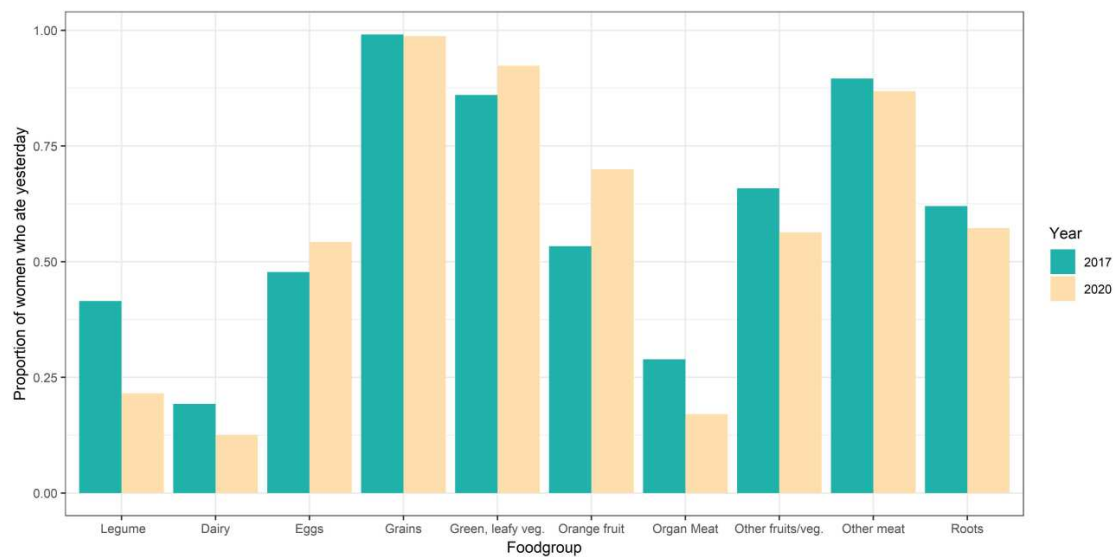
\*represents statistical significance at  $p < 0.05$



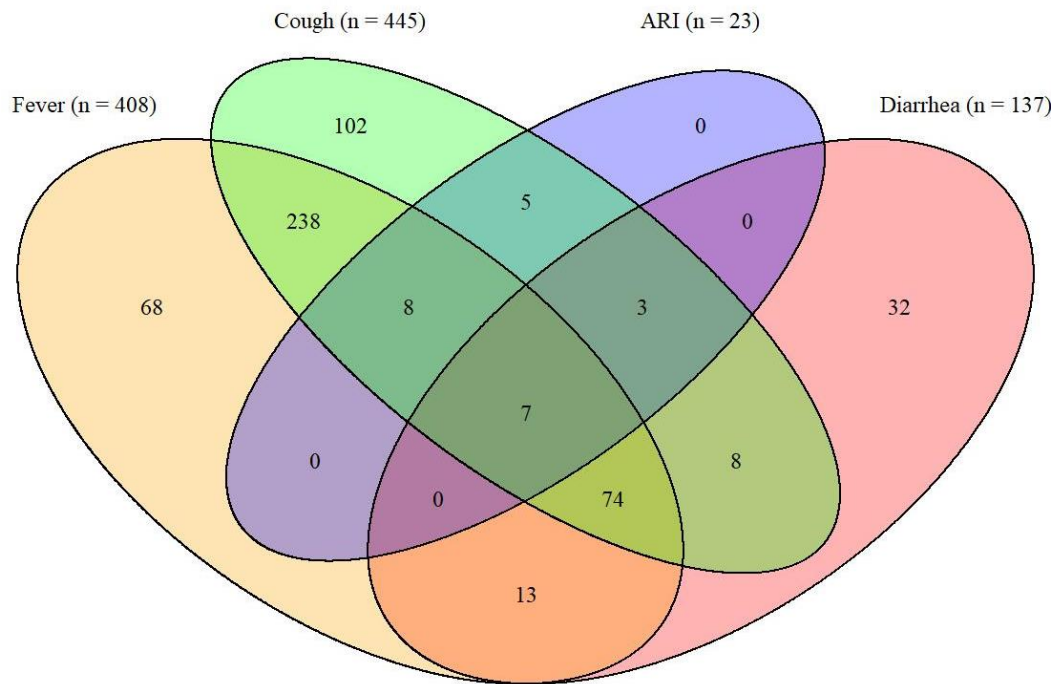
**Figure S1.** Directed acyclic graph (DAG) indicating the minimum set of covariates (yellow) to remove backdoor pathways between exposures (blue) and outcomes (green). White boxes are unmeasured upstream influences. Covariates indicated with an asterisk (\*) are unmeasured. FCS = Food Consumption Score; DDS = Dietary Diversity Score; CSI = Coping Strategies Index.



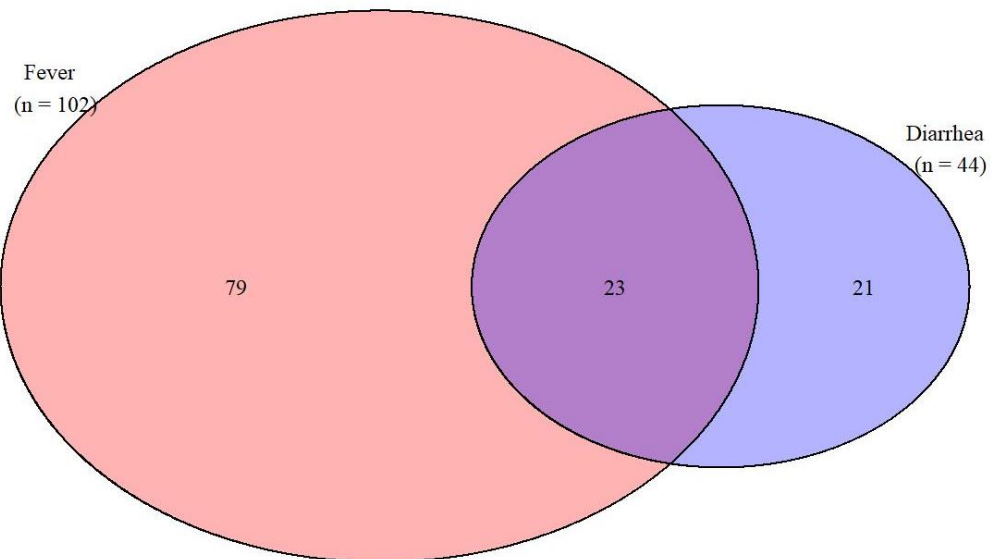
**Figure S2.** Prevalence of food group consumption in children 6-59 months, past 24 hours



**Figure S3.** Prevalence of food group consumption in mothers of children <59 months, past 24 hours



**Figure S4.** Venn diagram showing distribution of symptoms among the 557 children with fever, cough, ARI, or diarrhea in the past two weeks.



**Figure S5.** Venn diagram showing distribution of symptoms among the 123 mothers with fever or diarrhea in the past two weeks.

## Survey tool

### Endline Interview Questionnaire – 2020

#### Health and Nutrition Assessment

Introductory Statement to the Interview
<p>Good Morning/Good Afternoon.</p> <p>My name is _____ and I am here on behalf of the Primary Health Care program. We are conducting a survey on the health and nutritional status of women and children. You have been selected by chance from the list of families with children under the age of five. Is this correct? The purpose of this interview is to obtain information about the health and nutrition status of you and your child. We are interested in interviewing mothers of children aged five or less. Are you the mother of the child? <i>(If no), Is the mother of the child at home? (If yes, wait until she arrives, and re-explain purpose).</i> Could you please spare some time (around 45 minutes) for the interview? The information you give will be confidential and will only be used to prepare a report of general findings – but will not include any names. You will not get any additional entitlements because of the interview. At any time during the survey, you are free to stop the survey, or choose not answer any question. If you are willing to participate in this survey, please indicate your oral consent by saying “yes” or “no”.</p>
<p><b>May I start now?</b></p> <p><input type="checkbox"/> Yes, permission is given ⇒ Go to 101 to begin the interview.</p> <p><input type="checkbox"/> No, permission is not given ⇒ Tell this result to your supervisor and move to the next household.</p>
<p><b>Enumerators</b>– <i>If the respondent is not willing, do not ask any of the questions and move to the next household. If the household contains children under the age of 5, but the mother is not present, ask when it is a good time to return, and return at a later time. We only want to interview mothers of children under the age of 5.</i></p>

General Information				
No.	Item	Name		
101	District			
102	Village			
103	Date of interview	DD	MM	YYYY
		--	--	2016
104	Interviewer's Name/Number	--		

Household Demographic Information			
First, we would like to ask some questions about yourself and the people who live in this household.			
No.	Question	Response	Notes
201	How old are you?	Age (in completed years): __ __	
202	To what ethnic group does the head of this household belong?	1.....Lao Lom 2.....Hmong 3.....Khmu 4.....Mien 5.....Lue 6.....Akha 7.....Muser 98.....Other (Specify.....)	
203	What is your marital status?	1.....Married (monogamous) 2.....Married (polygamous) 3.....Not married, but living with a man 4.....Single 5.....Divorced or separated 6.....Widowed	

204	What is your relationship to the head of the household (HHH)?	1..... Head of household 2..... Wife of the HHH 3..... Daughter of the HHH 4..... Daughter in law of HHH 5..... Granddaughter of HHH 98.... Other relation	1 → 206 2 → 206
205	Is the head of the household male or female?	0..... Female 1..... Male	<i>if 204 ≠ 1 or 2</i>
206	Have you ever attended school?	1..... Yes 0..... No	0 → 208
207	What is the highest level of school you completed?	1..... Preschool 2..... Primary 3..... Lower Secondary 4..... Upper secondary 5..... Post-secondary vocational, tertiary/ diploma 6..... Higher	<i>if 206 = 1</i>
208	Did the head of the household attend school?	1..... Yes 0..... No 99.... Don't know	<i>if 204 ≠ 1</i> 1 → 209 0 → 210
209	What is the highest level of school completed by the head of the household?	1..... Preschool 2..... Primary 3..... Lower Secondary 4..... Upper secondary 5..... Post-secondary vocational, tertiary/ diploma 6..... Higher 99.... Don't know	<i>if 208 = 1</i>
210	How many household members are aged 15 years or more?	_____	

	<i>Prompt to include self in this count</i>		
211	How many household members are below 15 years of age?	___ ___	
212	How many household members are below 5 years of age?	___ ___	Check: 212 ≤ 211
213	How many members are in your own family?	___ ___	

<b>Dietary Intake</b>			
Now we would like to ask some questions about the diet of yourself and one of your children. Enumerators, if there are more than one children under the age of five, randomly select one child. Ask the name of the child, and use that name for the rest of the interview.			
No.	Question	Response	Notes
400	When was this child born? <i>Probe: Using MCH book, house registration, other official document</i>	___ ___ ___	
401	How many months old is this child? <i>Probe: Using important holidays, dates, etc.</i>	___ ___ months	0-59 only!
402	Is the child selected (Child's name) your youngest child? <i>Probe: the last child of alive children?</i>	1.....Yes 0.....No	
403	Yesterday during the day or night, was your diet a typical diet? <i>Probe: She had special ceremonies or illnesses that led her to have less or much more than her typical eating.?</i>	1.....Yes 2.....No. I ate more. 3.....No. I ate less 99.....Do not know	
404	Yesterday during the day or night, did you eat more or less or same amount of food compared to your eating before this pregnancy?	1.....Increased amount 2.....Same amount 3.....Decreased amount 99.....Do not know	<i>if 226=1 (currently pregnant)</i>
405	Yesterday during the day or night, did you eat more or less or same amount of animal source foods compared to your eating before this pregnancy?	1.....Increased amount 2.....Same amount 3.....Decreased amount 99.....Do not know	<i>if 226=1 (currently pregnant)</i>



	<i>Probe: Using examples of animal food or product in their general contexts and comparing with her usual eating style</i>		
<b>406</b>	<p>I would like to ask you about foods that you may have had yesterday during the day or night. I am interested to know whether you had the item even if combined with other foods. Please include foods consumed outside of your home.</p> <p>YESTERDAY DURING THE DAY OR NIGHT, DID YOU DRINK/EAT (FOOD GROUP ITEMS)?</p> <p><i>Questions and filters (Circle the corresponding code and you can underline more than one answer)</i></p> <p>Always start with: 'YESTERDAY DID YOU EAT...'</p>		
<b>406a</b>	<p>Any offal items (excluding intestines)?</p> <p><i>Probe: such as liver, brain, lung, heart, gizzard, kidney, of any animal</i></p>	<p>1.....Yes 0.....No 99.....Do not know</p>	
<b>406b</b>	<p>The intestine of any animal?</p>	<p>1.....Yes 0.....No 99.....Do not know</p>	
<b>406c</b>	<p>Any kind of meat?</p> <p><i>Probe: such as any meat, such as beef (fresh or dry), buffalo, pork, goat, chicken, goose, duck, sausage, blood sausage, sour sausage</i></p>	<p>1.....Yes 0.....No 99.....Do not know</p>	
<b>406d</b>	<p>Any kind of eggs?</p> <p><i>Probe: 'such as?' eggs from chicken, duck, turtle or other animals</i></p>	<p>1.....Yes 0.....No 99.....Do not know</p>	
<b>406e</b>	<p>Any kind of fish or aquatic animals?</p> <p><i>Probe: 'such as?' fresh, fermented or dried fish, swamp eel, squid, shrimp (fresh or dry), crab, granulated ark, clam, snail, frog, water insects</i></p>	<p>1.....Yes 0.....No 99.....Do not know</p>	
<b>406f</b>	<p>Any kind of wild animals?</p> <p><i>Probe: 'such as?' lizard, rat, rabbit, wild bird, small birds</i></p>	<p>1.....Yes 0.....No 99.....Do not know</p>	

<b>406g</b>	Any kind of insects or grubs? <i>Probe: 'such as?' silk worm pupa, cricket, weaver ant, ant egg, etc.</i>	1.....Yes 0.....No 99.....Do not know	
<b>406h</b>	Any kind of dairy products (not including coffee creamer)? <i>Probe: 'such as?' cheese (butter), yogurt, or other milk products</i>	1.....Yes 0.....No 99.....Do not know	
<b>406i</b>	Other foods that came from an animal. Example: pork skin	1.....Yes 0.....No 99.....Do not know	
<b>406j</b>	Sticky rice (refined or unrefined), roasted rice, rice, pre-chewed rice, rice noodles, maize, noodles, thick porridge, or other foods made from grains?	1.....Yes 0.....No 99.....Do not know	
<b>406k</b>	White or purple coloured foods from roots such as white yams, purple yams, yam bean, cassava, white radish, white potato, or any other white or purple colored foods from roots.	1.....Yes 0.....No 99.....Do not know	
<b>406l</b>	Pulses/lentils/tofu/bean curd	1.....Yes 0.....No 99.....Do not know	
<b>406m</b>	Nuts or seeds (e.g. Sesame seeds, mung bean, ground bean, sun flower seed, cashew nuts etc.)	1.....Yes 0.....No 99.....Do not know	
<b>406n</b>	Any dark green leafy vegetables such as pak choi, swamp cabbage, morning glory, sweet potato leaves, Chinese kale	1.....Yes 0.....No 99.....Do not know	
<b>406o</b>	Ripe orange fleshed mangoes, ripe orange fleshed papayas, pumpkin, carrots, sweet potatoes that are yellow or orange inside?	1.....Yes 0.....No 99.....Do not know	
<b>406p</b>	Other vegetables	1.....Yes 0.....No 99.....Do not know	
<b>406q</b>	Other fruit	1.....Yes 0.....No 99.....Do not know	
Now, I would like to ask about feeding practices for your child selected.			

<b>407</b>	Has (CHILD'S NAME) ever been breastfed?	1.....Yes 0.....No	<i>if 401 &lt; 24</i> 0→409
<b>408</b>	Was (CHILD'S NAME) breastfed yesterday, either during the day or the night?	1.....Yes 0.....No 99.....Do not know	<i>if 401 &lt; 24</i> & 407 = 1
<b>409</b>	Did (NAME) drink anything from a bottle with a nipple yesterday, during the day or night?	1.....Yes 0.....No 99.....Do not know	<i>if 401 &lt; 24</i>
<b>410</b>	Did (NAME) drink or eat vitamin or mineral supplements yesterday, during the day or night?	1.....Yes 0.....No 99.....Do not know	<i>if 401 &lt; 24</i>
<b>411</b>	How long after birth did you first put (NAME) to the breast?  <i>If immediately, record 00. If less than 24 hours, record hours. If over 24 hours, record 25. If unknown, record 99.</i>	_____ hours	<i>if 401 &lt; 24</i> & 407 = 1
<b>412</b>	Did (CHILD'S NAME) have any liquid other than breast milk, such as canned, powdered or fresh animal milk, infant formula, juice, thin porridge, or clear soup (Nam Keang) yesterday, during the day or night?	1.....Yes 0.....No 99.....Do not know	<i>if 401 &lt; 24</i> 0 → 413 99 → 413
<b>412a</b>	How many times did (CHILD'S NAME) receive milk other than breastmilk, such as canned, powdered or fresh animal milk, or infant formula?	_____ times 99.....Do not know	<i>if</i> <i>401 = 6-23</i> & 412 = 1
<b>413</b>	When do you think is the best time to start breastfeeding a child after giving birth?	<b>Enumerators:</b> <i>read off all answer choices and circle the best one</i>  1.....Within the first hour after giving birth 2.....Within the first six hours after giving birth 3.....Within the first twelve hours after giving birth 4.....Within one day after giving birth 99.....Do not know	

<b>414</b>	I would like to ask you about foods that the selected child (CHILD'S NAME) may have had yesterday during the day or night. I am interested to know whether HE/SHE had the item even combined with other foods. Please include foods consumed outside of your home.  YESTERDAY DURING THE DAY OR NIGHT, DID THE SELECTED CHILD (CHILD'S NAME) DRINK/EAT (FOOD GROUP ITEMS)?  Always start with: 'YESTERDAY DID (NAME) EAT....'		<i>if 401 ≥ 6</i>
<b>414a</b>	Commercially fortified baby food, e.g., cerelac	1.....Yes 0.....No 99.....Do not know	
<b>414b</b>	Sticky rice (white or brown), roasted rice, rice, pre-chewed rice, rice noodles, maize, noodles, porridge, or other foods made from grains?	1.....Yes 0.....No 99.....Do not know	
<b>414c</b>	Pumpkin, carrots or sweet potatoes that are yellow or orange inside?	1.....Yes 0.....No 99.....Do not know	
<b>414d</b>	White or purple coloured foods from roots such as white yams, purple yams, yam bean, cassava, white radish, white potato, or any other white or purple colored foods from roots.	1.....Yes 0.....No 99.....Do not know	
<b>414e</b>	Any dark green, leafy vegetables such as pak choi, swamp cabbage, morning glory, sweet potato leaves, Chinese kale?	1.....Yes 0.....No 99.....Do not know	
<b>414f</b>	Ripe or orange-fleshed mangos, or papayas	1.....Yes 0.....No 99.....Do not know	
<b>414g</b>	Any other fruits or vegetables	1.....Yes 0.....No 99.....Do not know	
<b>414h</b>	Liver, brain, lung, heart, gizzard, kidney, intestine, or other organ of any animal	1.....Yes 0.....No 99.....Do not know	
<b>414i</b>	Any meat, such as beef (fresh or dry), buffalo, pork, lamb, goat, chicken, goose, duck, sausage, blood sausage, sour sausage	1.....Yes 0.....No 99.....Do not know	
<b>414j</b>	Eggs from chicken, duck, turtle or other animals	1.....Yes 0.....No	

		99.....Do not know	
<b>414k</b>	Fresh, fermented or dried fish, swamp eel, squid, shrimp (fresh or dry), shellfish, crab, granulate ark, clam, snail	1.....Yes 0.....No 99.....Do not know	
<b>414l</b>	Any wild animals such as lizard, frog, rat, rabbit, wild bird, small bird	1.....Yes 0.....No 99.....Do not know	
<b>414m</b>	Insects or grubs such as silk worm pupa, cricket, weaver ant, any insect eggs, water insects	1.....Yes 0.....No 99.....Do not know	
<b>414n</b>	Any foods made from beans, Leucanea (bean), common pea, lentils, or nuts, including tofu?	1.....Yes 0.....No 99.....Do not know	
<b>414o</b>	Cheese, yogurt, or other food made from milk?	1.....Yes 0.....No 99.....Do not know	
<b>414p</b>	Any oil, pork fat, or butter or foods made with any of these	1.....Yes 0.....No 99.....Do not know	
<b>414q</b>	Any packaged foods such as packaged noodles, chocolates, sweets, candies, pastries, cakes, or biscuits	1.....Yes 0.....No 99.....Do not know	
<b>415</b>	How meals (solid or semi-solid food) did (CHILD'S NAME) eat yesterday?  <i>Enter 99 if unknown</i>	_____ times  99.....Do not know	<i>if 401 ≥ 6</i>
<b>416</b>	Did (CHILD'S NAME) eat any solid, semi-solid or soft foods (such as porridge, rice, pre-chewed rice, fruits, bread, meat, eggs, vegetables) yesterday?	1.....Yes 0.....No 99.....Do not know	<i>if 401 &lt; 6</i> <i>0 → 418</i> <i>99 → 418</i>
<b>417</b>	In the first three days after delivery or when you returned to work in the rice field, was ( <i>name</i> ) given anything to drink other than breast milk?	1.....Yes 0.....No 99.....Do not know	<i>if 401 &lt; 6</i> <i>&amp; 407 = 1</i>
Now, I understand eating pattern of you and your child. I would now like to ask more about eating practices of women who are breastfeeding.			
<b>418</b>	Yesterday during the day or night, did you eat more or less or same amount of food compared to your eating before this pregnancy?	1.....Increased amount 2.....Same amount 3.....Decreased amount 99.....Do not know	<i>if 401 &lt; 6</i> <i>&amp; 407 = 1</i>

	<i>Probe: Comparing with her usual eating style.</i>		
<b>419</b>	<p>Yesterday during the day or night, did you eat more or less amount of animal source foods compared to your eating before this pregnancy?</p> <p><i>Probe: Using example of animal food or product in their general contexts and comparing with her usual eating style.</i></p>	<p>1.....Increased amount 2.....Same amount 3.....Decreased amount 99.....Do not know</p>	<p><i>if 401 &lt; 6 &amp; 407 = 1</i></p>

Household Food Security and Expenditures		
No.	Question	Response
<p>I would like to ask you some questions about how much your household spends on health services and other things.</p> <p><i>For all questions in this section report all values in local currency, whether paid in cash or in kind</i></p>		
<b>501</b>	In the last 4 weeks, how much did your household spend on:  Food, including such things as [rice], meat, fruits, vegetables, and cooking oils. Include the value of any food that was produced and consumed by the household, and exclude alcohol, tobacco and restaurant meals.	_____,000 kip
<b>502</b>	In the last 4 weeks, how much did your household spend on:  Housing, gas, electricity, water, telephone, and heating fuel	_____,000 kip
<b>503</b>	In the last 4 weeks, how much did your household spend on:  Education fees and supplies	_____,000 kip
<b>504</b>	In the last 4 weeks, how much did your household spend on:  Health care costs	_____,000 kip
<b>505</b>	In the last 4 weeks, how much did your household spend on:  All other goods and services not yet mentioned	_____,000 kip
<b>506</b>	In the last 4 weeks, how much did your household spend in total? (Should equal 501 + 502 + 503 + 504 + 505)	_____,000 kip
<b>507</b>	In the <b>past month</b> , how often have you used any of the methods when you did not have enough food or money to buy food?	
<b>507a</b>	Rely on less preferred, less expensive foods?	<p>1.....1 day per week 2.....1-2 days a week</p>

		3.....3-4 days a week 4.....5-6 days a week 5.....Daily 6.....Never/<1 time per week
<b>507b</b>	Borrow food or money from friends or relatives?	1.....1 day per week 2.....1-2 days a week 3.....3-4 days a week 4.....5-6 days a week 5.....Daily 6.....Never/<1 time per week
<b>507c</b>	Limit portions at mealtimes?	1.....1 day per week 2.....1-2 days a week 3.....3-4 days a week 4.....5-6 days a week 5.....Daily 6.....Never/<1 time per week
<b>507d</b>	Limit adult intake?	1.....1 day per week 2.....1-2 days a week 3.....3-4 days a week 4.....5-6 days a week 5.....Daily 6.....Never/<1 time per week
<b>507e</b>	Reduce number of meals per day?	1.....1 day per week 2.....1-2 days a week 3.....3-4 days a week 4.....5-6 days a week 5.....Daily 6.....Never/<1 time per week
Now I would like to ask you some questions about food that the household ate in the last 7 days		
	<b>508.</b> How many <b>days</b> in the past week (last 7 days) did your household eat the following foods? Number of days eaten (out of last 7 days)	<b>509</b> What is the source of this food for each item mentioned?  <i>if 508 &gt; 0</i>  Food Source Code:  1. Home grown crop or livestock production 2 Purchased food 3 Gathered forest products 4 Hunting/fishing 5 Borrowed

		6 Food aid 7 Exchanged/barter 8 Gift from family/relatives
A. Rice (sticky rice, white rice)	—	—
B. Maize / Corn	—	—
C. Cassava	—	—
D. Other roots of tubers (potatoes, yam)	—	—
E. Pulses/Lentils/Tofu/Bean Curd	—	—
F. Vegetables (green leafy, carrot, pumpkin...)	—	—
G. Bamboo shoots / mushrooms	—	—
H. Fruits	—	—
I. Fish, fish paste	—	—
J. Other aquatic animals (crab, snail, shrimp...)	—	—
K. Meat (beef, pork, chicken)	—	—
L. Wild animals/Insects	—	—
M. Eggs	—	—
N. Milk	—	—
O. Sugar	—	—
P. Oil/Butter/Animal Fat	—	—
<b>510</b>	How many hours in the past week did you spend gathering food from the forest?	<i>if any</i> 509 = 3
<b>511</b>	How many hours in the past week did you spend hunting?	<i>if any</i> 509 = 4
<b>512</b>	How many hours in the past week did you spend fishing?	<i>if any</i> 509 = 4
<b>513</b>	Compared to before the pandemic, is it easier or harder to meet your family's food needs?	1. Much easier 2. Somewhat easier 3. No change 4. Somewhat harder 5. Much harder 99. Don't know/no answer 1 → 514 2 → 514 3 → 514 99 → 514
<b>513a</b>	What is the reason it is harder to meet your food needs during the pandemic?  Select all that apply	1. Items are more expensive 2. Markets being closed 3. Foods not available 4. HH had lost income. <i>if 513 =</i> 4 or 5



		98. Others (specify) 99. Don't know/no answer	
<b>514</b>	Did you lose income due to the pandemic?	1. Yes 0. No 99. Don't know/no answer	0→515 99→515
<b>514a</b>	If yes, how much did you lose, as a proportion of your income? (give best guess)	1. 0-25% 2. 25-50% 3. 50-75% 4. 75-100%	<i>if 514=1</i>
<b>515</b>	Do you spend less money due to the pandemic?	1. Yes 0. No 99. Don't know/no answer	0→516 99→516
<b>515a</b>	If yes, how much did you spend less, as a proportion of your expenditure? (give best guess)	1. 0-25% 2. 25-50% 3. 50-75% 4. 75-100%	<i>if 515=1</i>
<b>516</b>	Is it more difficult to access health services now compared to before the pandemic?	1. Much easier 2. Somewhat easier 3. No change 4. Somewhat harder 5. Much harder	

<b>VI. Illness and Treatment</b>			
Now we would like to ask about any recent illnesses that the selected child (CHILD'S NAME) may have had.			
<b>No.</b>	<b>Question</b>	<b>Response</b>	
<b>601</b>	Did (CHILD'S NAME) have diarrhea in the past two weeks, where diarrhea is defined as three or more loose stools or one loose, bloody stool in a 24 hour period?	1.....Yes 0.....No 99.....Do not know	0→603 99→603
<b>602a</b>	Now I would like to know how much (CHILD'S NAME) was given to drink, including breast milk, during the diarrhea  Was he/she given less than usual to drink, about the same amount, or more than usual to drink?  <i>If less, probe: Was he/she given much less than usual to drink or somewhat less?</i>	1.....Much less 2.....Somewhat less 3.....About the same 4.....More 5.....Nothing to drink 99.....Do not know	<i>if 601 = 1</i>

<b>602b</b>	During the time (CHILD'S NAME) had diarrhea, was HE/SHE given either: a) A fluid made from a special packet called (ORALYTE/NAM THA LAY PHOUN)? b) Recommended homemade fluid such as coconut water or rice water with salt?	1.....Yes, Nam Tha Lay Phoun 2.....Yes, Recommended Homemade Fluid 3.....No 99.....Do not know	<i>if 601 = 1</i>
<b>602c</b>	When (CHILD'S NAME) had diarrhea, was he/she given less than usual to eat, about the same amount, or more than usual to eat?  <i>If less, probe: Was he/she given much less than usual to eat or somewhat less?</i>	1.....Much less 2.....Somewhat less 3.....About the same 4.....More 5.....Nothing to eat 99....Do not know	<i>if 601 = 1</i>
<b>603</b>	Has (CHILD'S NAME) been ill with a fever any time in the past two weeks?	1.....Yes 0.....No 99.....Do not know	
<b>604</b>	Has (CHILD'S NAME) had an illness with a cough at any time in the last two weeks?	1.....Yes 0.....No 99.....Do not know	0→605 99→605
<b>604a</b>	When (CHILD'S NAME) was sick with a cough, did he/she breathe faster than normal with short, rapid breaths or have difficulty breathing?	1.....Yes 0.....No 99.....Do not know	<i>if 604 = 1</i> 0→605 99→605
<b>604b</b>	Was the fast or difficult breathing due to a problem in the chest or to a blocked or runny nose?	1.....Chest only 2.....Nose only 3.....Both 99.....Do not know	<i>if 604a = 1</i>
<b>605</b>	At any time during the past two weeks, did you ( <i>mother</i> ) have diarrhea?	1.....Yes 0.....No 99.....Do not know	
<b>606</b>	At any time during the past two weeks, have you ( <i>mother</i> ) been ill with a fever?	1.....Yes 0.....No 99.....Do not know	
<b>607</b>	When (CHILD'S NAME) was sick, did you seek advice or treatment from any source?	1.....Yes 0.....No 99.....Do not know	<i>if 601, 603 or 604 = 1</i> 0→609 99→609
<b>608</b>	From where did you seek advice or treatment?	1...Government hospital 2.....Health centre	<i>if 607 = 1</i>

	<p><i>Probe: Anywhere else?</i></p> <p>(Multiple response)</p>	<p>3...Village health worker</p> <p>4.....Outreach team</p> <p>5...Lao Women Union worker</p> <p>6...Private hospital/clinic</p> <p>7.....Private physician</p> <p>8.....Private pharmacy</p> <p>9.....Mobile Clinic</p> <p>10.....Relative/friend</p> <p>11.....Shop</p> <p>12...Traditional healer</p> <p>98.....Other</p>	
<b>609</b>	When (YOU) was sick, did you seek advice or treatment from any source?	<p>1.....Yes</p> <p>0.....No</p> <p>99.....Do not know</p>	<p><i>if 605 or 606=1</i></p> <p>0 → 700</p> <p>99 → 700</p>
<b>610</b>	<p>From where did you seek advice or treatment?</p> <p><i>Probe: Anywhere else?</i></p> <p>(Multiple response)</p>	<p>1.....Government hospital</p> <p>2.....Health centre</p> <p>3.....Village health worker</p> <p>4.....Outreach team</p> <p>5.....Lao Women Union worker</p> <p>6.....Private hospital/clinic</p> <p>7.....Private physician</p> <p>8.....Private pharmacy</p> <p>9.....Mobile Clinic</p> <p>10.....Relative/friend</p> <p>11.....Shop</p> <p>12...Traditional healer</p> <p>98.....Other</p>	<i>if 609 = 1</i>

<b>VIII. Anthropometry</b>			
No	Question	Response	Notes
	As part of this survey, we are measuring the growth of children 0-59 mo. Child growth is an important indicator of health. Poor growth is a serious health problem that usually results from poor nutrition, poor sanitation, or infection. This measurement will help us design programs to improve child health. We will share with you the measurements, but will not share the information with anyone else outside the survey team. Do you have any questions?		

901	What is the age, in months, of (NAME)?	_____	Same as 401
902	What is the sex of (NAME)?	0.....Female 1.....Male	
903	<b>Enumerator:</b> Check for bilateral pitting edema	1.....Present 0.....Not present 99....Unsure 98....Not checked	1→906
904	Now I am going to weigh (NAME).  <b>Enumerator:</b> If the child is under 2 years old, weigh the mom by herself. The child should wear as few clothes as possible. If the child is wearing clothes, weigh the mom holding an extra pair of clothes (if an extra pair exists) similar to the weight of the clothes the child is wearing. Tare the scale. Then weigh the mom holding the child. Record the weight of the child.	_____ . _____ kg	if 903 = 0
905	<b>Enumerator:</b> was (NAME) undressed to the minimum?  (note...if child was dressed but mother held clothes, indicate 'no clothes')	0.....No clothes 1.....Few clothes 2.....Many clothes	
906	Now I am going to measure the arm of (NAME).  <b>Enumerator:</b> record the MUAC measurement, in cm	_____ . _____ cm	if 401 ≥ 6
907	Record the color of the MUAC tape	1.....Green 2.....Yellow 3.....Red	if 401 ≥ 6
908	Now I am going to measure the height of (NAME).  <b>Enumerator:</b> record the height measurement of the child, in cm. If the child is less than 23 months, measure the child lying down.	_____ . _____ cm	
909	How was the person actually measured? Lying down or standing up?	1.....Lying down 2.....Standing	
910	Now I am going to measure your arm.  <b>Enumerator:</b> record the MUAC measurement of the mother, in cm.	_____ . _____ cm	

**Closing Statement to the Interview**


The interview is complete. Thank you so much for your time and patience. Your help will allow us to work together to improve the health and nutrition of your child and community.

**Enumerators:** *indicating completeness:*

- Yes, interview is complete* ⇒ *Move to the next household*
- No, interview was not complete* ⇒ *Tell this result to your supervisor and move to the next household.*

### Ethical approval

ສາທາລະນະລິດ ປະຊາທິປະໄຕ ປະຊາຊົນລາວ  
ສັນຕິພາບ ເອກະລາດ ປະຊາທິປະໄຕ ເອກະພາບ ວັດທະນາຖາວອນ



ກະຊວງສາທາລະນະສຸກ  
ມະຫາວິທະຍາໄລ ວິທະຍາສາດ ສຸຂະພາບ  
ຄະນະກຳມະການຈັນຍາທຳການຄົ້ນຄວ້າວິທະຍາສາດ  
ເບີໂທ: 021 240255

ເລກທີ 131-- /ຄຈສ  
ນະຄອນຫຼວງວຽງຈັນ, ວັນທີ 19 FEB 2021

### ໃບອະນຸມັດຈັນຍາທຳ

ຜູ້ໂຄງການ: ສຶກສາຜົນກະທົບຈາກການລະບາດຂອງພະຍາດໂຄວິດ ຕໍ່ກັບຄວາມປອດໄພ ແລະ ການບໍລິໂພກອາຫານ, ການເຂົ້າເຖິງການບໍລິການສາທາລະນະສຸກ ແລະ ການໃຊ້ຈ່າຍ ໃນແຕ່ລະຄອບຄົວ ຢູ່ທາງພາກເໜືອຂອງ ສປປ ລາວ (ບົດ Proposal version 2.1, ລົງວັນທີ 09 ກຸມພາ ປີ 2021).

ຜູ້ຊື້ຄົ້ນຄວ້າຫຼັກ: ປອ. ດຣ ເພັດສະຫວັນ ຈັນຍະວິໄລ, ຮອງຫົວໜ້າຄະນະກຳມະການຄົ້ນຄວ້າວິທະຍາສາດ, ສະຖາບັນຄົ້ນຄວ້າ ແລະ ມິດທະນາການສຶກສາ.

ໄລຍະເວລາການອະນຸມັດ: 01 ປີ.

ຄະນະກຳມະການຈັນຍາທຳການຄົ້ນຄວ້າວິທະຍາສາດ ໄດ້ທຳການພິຈາລະນາໂຄງການຄົ້ນຄວ້າດັ່ງກ່າວ ແລະ ເຫັນວ່າ ການຄົ້ນຄວ້າດັ່ງກ່າວນີ້ຈະບໍ່ສົ່ງຜົນກະທົບທາງດ້ານສ່ຽງກາຍ ແລະ ຈິດໃຈຂອງຜູ້ທີ່ເຂົ້າຮ່ວມໃນການສຶກສາ ແລະ ບໍ່ແຕກຕ້ອງ ເຖິງບັນຫາຈັນຍາທຳຂອງການຄົ້ນຄວ້າ. ໂຄງການຄົ້ນຄວ້າດັ່ງກ່າວນີ້ຈະມີຜົນປະໂຫຍດອັນໃຫຍ່ຫຼວງ ໃນການປະກອບ ສ່ວນວຽກງານການສົ່ງເສີມສຸຂະພາບ ໂດຍທາງກົງ ແລະ ທາງອ້ອມ ຕໍ່ຜູ້ເຂົ້າຮ່ວມການສຶກສາ, ແລະ ເປັນຂໍ້ມູນພື້ນຖານ ທີ່ສຳຄັນໃນການຄົ້ນຄວ້າຕໍ່ໄປແກ່ ວົງການສາທາລະນະສຸກລາວ ແລະ ຂະແໜງການວິທະຍາສາດ ໃນອະນາຄົດ.

ດັ່ງນັ້ນ, ຄະນະກຳມະການຈັນຍາທຳການຄົ້ນຄວ້າຂອງ ມະຫາວິທະຍາໄລ ວິທະຍາສາດ ສຸຂະພາບ ຈຶ່ງຕົກລົງເຫັນ ຕື່ອນຸມັດດ້ານຈັນຍາທຳການຄົ້ນຄວ້າສຳລັບໂຄງການດັ່ງກ່າວນີ້. ຜູ້ເຮັດການຄົ້ນຄວ້າຫຼັກຕ້ອງຮັບປະກັນວ່າທຶນງານຄົ້ນ ຄວ້າທັງໝົດໄດ້ຮັບສູ່ ກ່ຽວກັບ ເງື່ອນໄຂຂອງການອະນຸມັດຈາກຄະນະກຳມະການຈັນຍາທຳການຄົ້ນຄວ້າ ຂອງ ມວສ ລວມທັງເອກະສານທີ່ຖືກອະນຸມັດ. ຜູ້ເຮັດການຄົ້ນຄວ້າຫຼັກຕ້ອງໄດ້ແຈ້ງໃຫ້ກອງເລຂາຂອງຄະນະກຳມະການຈັນຍາທຳ ຄົ້ນຄວ້າຮັບຊາບຖ້າມີ ການແກ້ໄຂເພີ່ມເຕີມ ຫຼື ການປ່ຽນແປງ ແລະ ຕ້ອງລາຍງານຄວາມສືບໜ້າຂອງໂຄງການຄົ້ນຄວ້າ ຕໍ່ຕັ້ງລຸ່ມນີ້:

- ກໍລະນີມີການປ່ຽນແປງໃດໆທີ່ມີຄວາມສຳຄັນຕໍ່ກັບໂຄງການ ແລະ ເຫດຜົນຂອງການປ່ຽນແປງນັ້ນ, ລວມທັງຂໍ້ຍົງ ຊື່ທາງດ້ານຈັນຍາທຳ;
- ເກີດຜົນກະທົບທີ່ອ່າຍແຮງຕໍ່ຜູ້ເຂົ້າຮ່ວມ ແລະ ການແກ້ໄຂຜົນກະທົບດັ່ງກ່າວ;
- ເກີດເຫດການທີ່ບໍ່ໄດ້ຄາດຄິດ ຫຼື ຄາດເດົາລ່ວງໜ້າ;
- ກໍລະນີຜູ້ເຮັດການຄົ້ນຄວ້າຫຼັກບໍ່ສາມາດສືບຕໍ່ເຮັດໜ້າທີ່ຂອງຕົນໄດ້ ຫຼື ມີການປ່ຽນແປງໃດໆທີ່ກ່ຽວຂ້ອງກັບບຸກ ຄົນໃນໂຄງການຄົ້ນຄວ້າດັ່ງກ່າວ;
- ກໍລະນີມີການຊື່ປະກັນໄພຄຸ້ມຄອງຜູ້ເຂົ້າຮ່ວມການສຶກສາ ແລະ ການປະກັນໄພໝົດກຳນົດ;
- ເກີດຄວາມຊັກຊ້າໃນການເລີ່ມຕົ້ນໂຄງການເກີນກວ່າ 12 ເດືອນ; ແລະ
- ມີການຍຸຕິ ຫຼື ປິດໂຄງການຄົ້ນຄວ້າກ່ອນໂຄງການຈະສຳເລັດ.

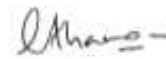
ເອກະສານທີ່ອະນຸມັດ

ເອກະສານທີ່ໄດ້ຮັບການທົບທວນຜິຈາລະນາ ແລະ ອະນຸມັດຈາກ ຄະນະກຳມະການຈັນຍາທຳການຄົ້ນຄວ້າວິທະຍາສາດ

ເອກະສານປະກອບ	ສະບັບທີ (version)	ວັນທີ
ບົດສະເໜີໂຄງການຄົ້ນຄວ້າ	Version 2.1	09 ກຸມພາ ປີ 2021
ເຄື່ອງມືເກັບຂໍ້ມູນ (ແບບຝອມສອບຖາມ ແລະ ອື່ນໆ)	Version 1.3	09 ກຸມພາ ປີ 2021

ປະທານ

ຄະນະກຳມະການຈັນຍາທຳຄົ້ນຄວ້າວິທະຍາສາດ



ດຣ.ນ. ຈັນຖະໜອມ ມະນີທິປ