Supporting implementation of interventions to address ethnicity-related health inequities: frameworks, facilitators and barriers – a scoping review protocol

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ABSTRACT

Introduction Health inequities are differences in health between groups of people that are unavoidable, unfair and unjust. Achieving equitable health outcomes requires approaches that recognise and account for the differences in levels of advantage between groups. Implementation science, which studies how to translate evidence-based interventions into routine practice, is increasingly recognised as an approach to address health inequities by identifying factors and processes that enable equitable implementation of interventions. This article describes the protocol for a scoping review of the literature relating to the equitable implementation of interventions, focusing on ethnicity-related health inequities. The scoping review aims to identify equity-focused implementation science theories, models and frameworks (TMFs) and to synthesise and analyse the evidence relating to the factors that aid or inhibit equitable implementation of health interventions.

Methods and analysis The scoping review is guided by the methodology developed by Arksey and O’Malley and enhanced by Levac and colleagues. Relevant literature will be identified by searching electronic databases, grey literature, hand-searching key journals and searching the reference lists and citations of studies that meet the inclusion criteria. We will focus on literature published from 2011 to the present. Titles, abstracts and full-text articles will be screened independently by two researchers; any disagreements will be resolved through discussion with another researcher. Extracted data will be summarised and analysed to address the scoping review aims.

Ethics and dissemination The scoping review will map the available literature on equity-focused implementation science TMFs and the facilitators and barriers to equitable implementation of interventions. Ethical approval is not required. Dissemination of the results of the review will include publications in peer-review journals and conference and stakeholder presentations. Findings from the review will support those implementing interventions to ensure that the implementation pathway and processes are equitable, thereby improving health outcomes and reducing existing inequities.

INTRODUCTION

Health inequities are differences in health between groups of people that are avoidable, unfair and unjust, where these groups may be defined socially, economically, demographically or geographically. The causes of health inequities are complex and multifactorial; historic and contemporary political, legal, social, economic and institutional structures and processes shape how power and resources are distributed, disadvantaging some groups relative to others. Within the health system, inequities are perpetuated through its structures, policies and processes, which manifest as a lack of services that are affordable, accessible and culturally responsive and safe, and involve actors at multiple levels (eg, healthcare professionals, administrators, managers, funders).
Ethnicity and ‘race’-related health inequities have been well-documented locally and internationally.5–10 Minoritised groups have poorer access to the social determinants of health, less access to and use of health services, poorer quality of care and worse health outcomes, including reduced life expectancy and increased morbidity and mortality associated with various communicable and non-communicable diseases.5–10 A population study of Indigenous and tribal peoples in 23 countries, including Aotearoa New Zealand, Australia, Brazil and Canada, found poorer health and social outcomes compared with non-Indigenous populations across a range of measures, although these differences were not uniform across each country or population.6 In Aotearoa New Zealand, there are persistent inequities in the health of Māori (the Indigenous peoples), Pacific and other minoritised groups when compared with the majority European-New Zealand population.8,11 Often these ethnicity-related inequities are evident after socioeconomic status and geographic differences are accounted for.12 While the implementation of evidence-based interventions has contributed to overall improvements in morbidity and mortality, inequities in access to and provision of health services and interventions (eg, cardiovascular disease risk assessment, cancer screening, diabetes screening, vaccination) has meant the health benefits of these interventions have been inequitable.8,11 13–19

Achieving equitable health outcomes requires approaches that recognise and account for the differences in levels of advantage between groups.2 Implementation science is being increasingly recognised as an approach to reduce health inequities.20–26 Implementation science is defined as the ‘scientific study of methods to promote the systematic uptake of research findings and other evidence-based practices into routine practice, and, hence, to improve the quality and effectiveness of health services and care’.27 Implementation research seeks to understand the multi-level factors influencing health intervention design and delivery.21 Applying an ‘equity lens’ to implementation science can therefore facilitate understanding of the factors influencing the equitable design and delivery of health interventions and guide the process of equitable implementation.20,29–26

Implementation science uses theories, models and frameworks (TMFs) as the basis for understanding how and why implementation of an evidence-based intervention or practice succeeds or fails.28 Nilsen outlines three overarching aims of implementation science TMFs: (a) to describe and/or guide the process of translating research into practice, (b) to understand and/or explain what influences implementation outcomes and (c) to evaluate implementation.29 A number of implementation science TMFs have been adapted or developed in recent years to incorporate equity as an explicit focus.20–25 To the best of our knowledge, these have yet to be comprehensively reviewed.

Optimising an intervention’s ability to address health inequities requires an understanding of the factors that aid or inhibit equitable implementation. Identifying facilitators and barriers to implementation enables intervention or service design and delivery to be adapted to ensure that it meets the needs of the target population and improves health outcomes.28 Similarly, identifying the facilitators and barriers to equitable implementation provides an opportunity to design or adapt the implementation pathway to ensure that the intervention is delivered equitably.

The aim of the scoping review is to explore the literature relating to the equitable implementation of health interventions. Our specific objectives are to: (a) identify and describe implementation science TMFs that have an equity focus, including their purpose, components and operationalisation (if applicable) and (b) identify and analyse literature relating to the factors that aid or inhibit the achievement of equity in health intervention implementation. A scoping review was identified as the most suitable methodology for the study as it is a type of knowledge synthesis that addresses an exploratory research question by identifying and mapping key concepts, evidence and research gaps in a particular field or area.29 In contrast to a systematic review, this methodology allows exploration of the breadth of evidence from diverse sources, including grey literature, while not requiring an assessment of the quality of the evidence.30–31 It is also critical in examining the extent, variety and characteristics of evidence on a particular topic or question by providing clarity to the concepts and identifying the gaps in knowledge to inform practice, policy and future research.32 The scoping review will form part of the first phase of a research programme to develop an equity-focused implementation science framework and an equity readiness assessment tool appropriate for the Aotearoa New Zealand context. The results will also support health researchers, clinicians, funders and other decision-makers to implement interventions to achieve equitable outcomes.

METHODS AND ANALYSIS

This scoping review will be conducted following the methodological framework developed by Arksey and O’Malley30 and refined by Levac and colleagues.33 These authors outline a six-stage process for scoping reviews: (a) identifying the research question; (b) identifying the relevant studies; (c) study selection; (d) charting the data; (e) collating, summarising and reporting the results; (f) consultation.30–33 The Preferred Reporting Items for Systematic Reviews and Meta-Analyses extension for Scoping Review checklist will be used to guide the reporting of the results.32 As the scoping review process is iterative, changes to the protocol may be required as the review progresses. Any adjustments will be clearly documented and justified in the scoping review results.

Stage 1: identifying the research question

To guide the scoping review, two research questions have been developed in consultation with the research team: (a) what equity TMFs have been developed to inform the design and implementation of interventions in the health sector? (b) what implementation factors aid or inhibit the achievement of equity in health interventions?

Stage 2: identifying the relevant studies

Literature will be identified in four phases: (a) electronic database searching, (b) grey literature searching, (c)
Research question 1
1. (implementation science or implementation framework or implementation research or implementation process or implementation effectiveness or knowledge transfer or knowledge exchange or knowledge translation).af.
2. (framework* or theor* or model* or checklist* or classifi* or categor* or concept* or tool or protocol).af.
3. 1 and 2.
4. (health intervention or health care or healthcare or evidence-based intervention or evidence-based practice or health service*).af.
5. 3 and 4.
6. limit 5 to (english language and humans and yr="2011 -Current").af.
7. (equity or health equity or inequal* or health inequal* or disparit* or health diparit* or inequit* or health inequit*).af.
8. 6 and 7.

Research question 2
1. (implementation science or implementation framework or implementation research or implementation process or implementation effectiveness or knowledge transfer or knowledge exchange or knowledge translation).af.
2. (health intervention or health care or healthcare or evidence-based intervention or evidence-based practice or health service*).af.
3. 1 and 2.
4. (equity or health equity or inequal* or health inequal* or disparit* or health diparit* or inequit* or health inequit*).af.
5. 3 and 4.
6. limit 5 to (english language and humans and yr="2011 -Current").af.
7. barrier* or hinder or obstacle* or imped*.
8. 6 and 7.
9. (facilitat* or enabl* or moderat* or influence* or impact or aid or assist or enhanc*).af.
10. 6 and 9.

Stage 3: study selection
References identified through the MEDLINE, CINAHL and Dissemination and Implementation Models databases will be exported to Endnote X9.3.5 to identify and remove any duplicates. References will also be imported to Microsoft Excel V.2209 and the titles and abstracts screened independently by two researchers to determine at a broad level whether they meet eligibility criteria and do not satisfy any exclusion criteria; any disagreements will be resolved through discussion with a third researcher. Studies identified as likely eligible for inclusion through the screening process will then undergo full-text review by at least two researchers to make a final determination of eligibility for inclusion in the scoping review.

To identify potentially relevant studies from relevant journals and reference lists by hand-searching, article titles will first be reviewed to determine whether they broadly meet the inclusion criteria. The abstracts of potentially eligible articles will then be reviewed according to the process described above for references identified through the database searches. Grey literature and any literature identified by hand-searching journals, reference lists or citations will be manually added to Endnote and Microsoft Excel.

Criteria for research question 1
Studies will be included if they (a) describe an equity-focused implementation science TMF, that is, equity is explicitly mentioned in the TMF or addressing health equity is an explicit aim of the TMF or (b) use an established implementation science TMF to implement an intervention in Indigenous or other minoritised ethnic populations known to experience health inequities. Studies that describe the operationalisation of an equity-focused TMF will also be included.

Criteria for research question 2
Studies will be included if they (a) describe a health intervention implemented in target populations experiencing ethnicity-related health inequities, or (b) describe a health intervention implemented in whole populations, implementation science TMFs with a health equity focus (see online supplemental file 1). International and local literature from the database searches will be eligible for inclusion. The grey literature search will be conducted using Google and the following search terms: “health” AND “equity” AND “implementation” AND “framework or model or theory”. This search will be limited to New Zealand as we are particularly interested in scoping the literature on the factors that influence whether the implementation of an intervention has an impact on health inequities in Māori and Pacific populations. The key journal titles to be hand-searched will be finalised once the database searches are completed and the most relevant journals have been identified. As with the database searches, the grey literature and key journal searches will be limited to literature published from 1 January 2011 to the present.

hand-searching of key journals and (d) searching the reference lists and citations of studies meeting the inclusion criteria.

The MEDLINE (Ovid) and CINAHL databases will be used to search for literature relating to the research questions published from 1 January 2011 to the present. Preliminary searches revealed that discussions about equity in implementation science have occurred predominantly in the last 5 years. Therefore, limiting the search to 2011 onwards will provide good coverage of the implementation science literature, as well as ensuring that the search is current at the time it is executed. The list of initial search terms was developed from the research questions and previous knowledge, and reviewed by the research team. The research fellow and a subject librarian at the University of Otago reviewed MeSH terms to ensure that the key search terms were comprehensive. Preliminary searches were conducted in MEDLINE and the search terms and strategies were refined based on screening article titles, abstracts and keywords (see Box 1 for the MEDLINE search strategy). The MEDLINE search strategy will be adapted for the CINAHL database (see online supplemental file 1). The Dissemination and Implementation Models database (https://dissemination-implementation.org) will also be searched to identify any additional
but where ethnicity-related inequities are explicitly considered as part of the implementation process; and (c) refer to facilitators or barriers to implementation.

Exclusion criteria

Commentaries, discussion and working papers, policy documents, editorials, expert opinions, letters, conference proceedings, case reports, quantitative research that does not otherwise meet the inclusion criteria for research question 1 or 2, and studies in non-English languages or that describe interventions conducted in non-healthcare settings will be excluded. As this review focuses on ethnicity-related health inequities, interventions implemented in populations experiencing other types of inequity are beyond the scope of this study.

Stage 4: charting the data

Studies will be charted in Microsoft Excel using a data charting form; separate charting forms will be developed for the two research questions (Table 1). The data charting forms will be piloted on 5–10 studies by two researchers independently. The researchers will then meet to review the data charting process, make any necessary revisions to the data charting form and check for consistency between the two researchers. Data charting will be completed by two researchers, with cross-checking by a third researcher.

Stage 5: collating, summarising and reporting the results

A descriptive summary of the equity-focused implementation science TMFs and the literature describing the facilitators and barriers to equitable implementation will be provided. An analysis of the findings in relation to the research questions will be presented, including how well equity and system-level factors influencing implementation are incorporated into the implementation science TMFs and a thematic analysis of the implementation factors aiding or inhibiting the achievement of equity in health interventions.

Stage 6: consultation

Consultation with experts and stakeholders is recommended throughout the scoping review process. It is also a critical aspect of the Kaupapa Māori research methodology (Kaupapa Māori (literally, a Māori way) research ‘assumes the existence and validity of Māori knowledge, language and culture’ (Smith, p48) and is underpinned by a set of principles that guide research by, with and for Māori that informs the wider research programme. The research team includes experts in the fields of health equity (SC, KB), implementation science (PC) and Māori health (SC, RB, MR) who will review the search findings and identify any potentially relevant literature that is missing. A Kāhui (group) comprising experts in Māori health research and service provision, Iwi (tribe) representatives and health service consumers will also be consulted to identify any potentially relevant local resources that are not identified through the grey literature search. The Kāhui will also review and provide feedback on the findings of the review as it progresses.

Patient and public involvement

No patients were involved in the protocol design.

ETHICS AND DISSEMINATION

Ethical approval will not be required for this scoping review as all data reviewed and collected will be obtained from publicly available sources. Dissemination of the scoping review results will include publication in a peer-reviewed journal and presentations to stakeholders and at conferences.

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Contributors SC, KB, PC, PP and AF conceptualised and designed this study. SC, ML, PG and YAA developed the search strategy; KB, AF and PP contributed to methods design. PG, YAA and ML drafted and edited the manuscript and SC, KB, PC, PP, AF, RB and MR provided critical revisions. The final version was read and approved by all authors.

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