



Gaps In The Research

Karen A. Robinson



Gaps In The Research

Framework for Determining Research Gaps During Systematic Review U. S. Department of Health and Human Services, Agency for Healthcare Research and Quality, 2013-03-23

The identification of gaps from systematic reviews is essential to the practice of evidence based research. Health care research should begin and end with a systematic review. A comprehensive and explicit consideration of the existing evidence is necessary for the identification and development of an unanswered and answerable question for the design of a study most likely to answer that question and for the interpretation of the results of the study. In a systematic review the consideration of existing evidence often highlights important areas where deficiencies in information limit our ability to make decisions. We define a research gap as a topic or area for which missing or inadequate information limits the ability of reviewers to reach a conclusion for a given question. A research gap may be further developed such as through stakeholder engagement in prioritization into research needs. Research needs are those areas where the gaps in the evidence limit decision making by patients, clinicians, and policy makers. A research gap may not be a research need if filling the gap would not be of use to stakeholders that make decisions in health care. The clear and explicit identification of research gaps is a necessary step in developing a research agenda. Evidence reports produced by Evidence based Practice Centers (EPCs) have always included a future research section. However, in contrast to the explicit and transparent steps taken in the completion of a systematic review, there has not been a systematic process for the identification of research gaps. We developed a framework to systematically identify research gaps from systematic reviews. This framework facilitates the classification of where the current evidence falls short and why the evidence falls short. The framework included two elements: 1) the characterization of the gaps and 2) the identification and classification of the reasons for the research gap. The PICOS structure (Population, Intervention, Comparison, Outcome, and Setting) was used in this framework to describe questions or parts of questions inadequately addressed by the evidence synthesized in the systematic review. The issue of timing, sometimes included as PICOTS, was considered separately for Intervention, Comparison, and Outcome. The PICOS elements were the only sort of framework we had identified in an audit of existing methods for the identification of gaps used by EPCs and other related organizations, i.e., health technology assessment organizations. We chose to use this structure as it is one familiar to EPCs and others in developing questions. It is not only important to identify research gaps but also to determine how the evidence falls short in order to maximally inform researchers, policy makers, and funders on the types of questions that need to be addressed and the types of studies needed to address these questions. Thus, the second element of the framework was the classification of the reasons for the existence of a research gap. For each research gap, the reasons that most preclude conclusions from being made in the systematic review is chosen by the review team completing the framework. To leverage work already being completed by review teams, we mapped the reasons for research gaps to concepts from commonly used evidence grading systems. Our objective in this project was to complete two types of further evaluation: 1) application of the framework across a larger sample of existing systematic reviews in different topic areas and 2) implementation of the framework by EPCs. These two objectives were used to evaluate the framework and instructions for usability and to evaluate the application of the framework by others outside of our EPC, including as part of the process of completing an EPC report. Our overall goal was to produce a revised framework with guidance that could be used by EPCs to explicitly identify research gaps from systematic reviews.

Identifying Research Gaps to Pursue Innovative Research Olatunde Simeon,2021-06-05 This book is an essential asset and ultimate guide for all scholars it revealed the technical know How to unlock the full potentials of one s research interest through identification of research gaps precept upon precept for gaps identification also here present is a thorough exploration of the literature review process from start to finish exploring the different types of research gaps extended examples that show you how to apply key techniques and procedures a critical thinking focus that will help you to construct a convincing arguments and improve your research decisions in combining a critical and philosophical approach with an expertly selected body of practical examples technical skills required to produce sophisticated robust literature reviews of the very highest standard Step by step approach for researchers in the field of tropical medicine and other health care fields on how to properly conduct a Systematic review and Meta analysis With no doubts it is an essential asset for all Undergraduate and Postgraduate students Doctoral and Post Doctoral Candidate Faculties and Deans Scientist Journalist Presenting and publishing authors Policy and decision makers

Identifying Research Gaps to Pursue Innovative Research Simeon Kayowa Olatunde,2024-08-12 This book is an essential asset and ultimate guide for all scholars it reveals the technical know How to unlock the full potentials of one s research interest through identification of research gaps precept upon precept for gaps identification also here present is a thorough exploration of the literature review process from start to finish exploring the different types of research gaps extended examples that show you how to apply key techniques and procedures a critical thinking focus that will help you to construct a convincing arguments and improve your research decisions in combining a critical and philosophical approach with an expertly selected body of practical examples technical skills required to produce sophisticated robust literature reviews of the very highest standard Step by step approach for researchers in the field of tropical medicine and other health care fields on how to properly conduct a Systematic review and Meta analysis This book is an excerpt from series of lectures and knowledge given by my Ph D guide coupled with my personal quest for knowledge to identify research gaps to pursue innovative research in my fields With no doubts it is an essential asset for all Undergraduate and Postgraduate students Doctoral and Post Doctoral Candidate Faculties and Deans Scientists Journalist Presenting and publishing authors Policy and decision makers

Frameworks for Determining Research Gaps During Systematic Reviews ,

Investing in Interventions That Address Non-Medical, Health-Related Social Needs National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Board on Population Health and Public Health Practice, 2019-10-27 With U S health care costs projected to grow at an average rate of 5.5 percent per year from 2018 to 2027 or 0.8 percentage points faster than the gross domestic product and reach nearly 6.0 trillion per year by 2027 policy makers and a wide range of stakeholders are searching for plausible actions the nation can take to slow this rise and keep health expenditures from consuming an ever greater portion of U S economic output While health care services are essential to health there is growing recognition that social determinants of health are important influences on population health Supporting this idea are estimates that while health care accounts for some 10 to 20 percent of the determinants of health socioeconomic factors and factors related to the physical environment are estimated to account for up to 50 percent of the determinants of health Challenges related to the social determinants of health at the individual level include housing insecurity and poor housing quality food insecurity limitations in access to transportation and lack of social support These social needs affect access to care and health care utilization as well as health outcomes Health care systems have begun exploring ways to address non medical health related social needs as a way to reduce health care costs To explore the potential effect of addressing non medical health related social needs on improving population health and reducing health care spending in a value driven health care delivery system the National Academies of Science Engineering and Medicine held a full day public workshop titled Investing in Interventions that Address Non Medical Health Related Social Needs on April 26 2019 in Washington DC The objectives of the workshop were to explore effective practices and the supporting evidence base for addressing the non medical health related social needs of individuals such as housing and food insecurities review assessments of return on investment ROI for payers healthy systems and communities and identify gaps and opportunities for research and steps that could help to further the understanding of the ROI on addressing non medical health related social needs This publication summarizes the presentations and discussions from the workshop

Frameworks for Determining Research Gaps During Systematic Reviews Karen A. Robinson, 2011 RESEARCH OBJECTIVE Systematic reviews in addition to summarizing the evidence generally also discuss needs for future research However in contrast to the methods of the systematic review future needs are not identified systematically There is limited literature describing organizing principles or frameworks for determining research gaps We developed and pilot tested a framework for the identification of research gaps from systematic reviews STUDY DESIGN We reviewed the research gaps identification practices of organizations involved with evidence synthesis We contacted i evidence based practice centers EPCs n 12 associated with the Agency for Healthcare Research and Quality AHRQ in the US and Canada and ii other organizations around the world n 64 that conduct systematic reviews cost effectiveness analyses or technology assessments Based on the responses we developed a framework for identifying research gaps We obtained feedback from two technical experts at our institution and pilot tested this framework on two randomly selected EPC evidence reports We also developed a simple user friendly worksheet with instructions to facilitate the use of the framework by investigators during or after a systematic review POPULATION STUDIED Not Applicable PRINCIPAL FINDINGS Four 33 3% EPCs and 3 8 1% of the other organizations reported currently using an explicit framework to determine research gaps We did not identify one framework that captured all elements needed to determine and characterize research gaps Variations of the PICO population intervention comparison outcomes framework were most common It is also important to classify the reasons for the gap to help determine how to address the gap Therefore we propose a framework that includes both the characterization of the gap using PICOS elements also including setting and the identification of the reasons why the gap exists The framework allows investigators to classify reasons for the existence of a research gap as a insufficient or imprecise information b biased information c inconsistency or unknown consistency and d not the right information We mapped each of these reasons to concepts from three commonly used evidence grading systems the Grading of Recommendations Assessment Development and Evaluation GRADE the United States Preventive Services Task Force USPSTF and the Strength of Evidence SOE used by EPCs This allows leveraging of work already being completed during evidence grading During pilot testing we identified challenges including difficulty in applying the framework for completed systematic reviews and differences in the specificity of research gaps abstracted by different users These could be tackled with a priori discussions amongst investigators Further testing should determine if these challenges are ameliorated if the framework is used during a systematic review CONCLUSIONS We developed a framework to identify and characterize research gaps from systematic reviews The framework provides for the classification of where and why the current evidence falls short IMPLICATIONS FOR POLICY DELIVERY OR PRACTICE In synthesizing evidence systematic reviews inform health care decisions for patients policymakers and clinicians Systematic reviews can also be invaluable for identifying research gaps thus helping develop research agendas This potential impact of systematic reviews has not been realized Our framework provides for systematically identifying and characterizing research gaps from systematic reviews This explicit identification of research gaps will help determine the type of research needed to address the goals of comparative effectiveness research

The Public Health Effects of Food Deserts National Research Council, Institute of Medicine, Board on Population Health and Public Health Practice, Board on Agriculture and Natural Resources, Food and Nutrition Board, 2009-07-02 In the United States people living in low income neighborhoods frequently do not have access to affordable healthy food venues such as supermarkets Instead those living in food deserts must rely on convenience stores and small neighborhood stores that offer few if any healthy food choices such as fruits and vegetables The Institute of Medicine IOM and National Research Council NRC convened a two day workshop on January 26 27 2009 to provide input into a Congressionally mandated food deserts study by the U S Department of Agriculture s Economic Research Service The workshop summarized in this volume provided a forum in which to discuss the public health effects of food deserts

Framework for Determining Research Gaps During Systematic Review Karen A. Robinson, Johns Hopkins University. Evidence-based Practice Center, 2013 BACKGROUND Research gaps prevent systematic reviewers from making conclusions and ultimately limit our ability to make informed health care decisions While there are well defined methods for conducting a systematic review there has been no explicit process for the identification of research gaps from systematic reviews In a prior project we developed a framework to facilitate the systematic identification and characterization of research gaps from systematic reviews This framework uses elements of PICOS Population Intervention Comparison Outcomes Setting to describe the gaps and categorizes the reasons for the gaps as A insufficient or imprecise information B biased information C inconsistent or unknown consistency results and or D not the right information OBJECTIVE To further develop and evaluate a framework for the identification and characterization of research gaps from systematic reviews METHODS We conducted two types of evaluation 1 We applied the framework to existing systematic reviews and 2 Evidence based Practice Centers EPCs applied the framework either during a systematic review or during a future research needs project FRN EPCs provided feedback on the framework using an evaluation form RESULTS Our application of the framework to 50 systematic reviews identified about 600 unique research gaps Key issues emerging from this evaluation included the need to clarify instructions for dealing with multiple comparisons lumping vs splitting and need for guidance on applying the framework retrospectively We received evaluation forms from seven EPCs EPCs applied the framework in 8 projects five of which were FRNs Challenges identified by the EPCs led to revisions in the instructions including guidance for teams to decide a priori whether to limit the use of the framework to questions for which strength of evidence has been assessed and the level of detail needed for the characterization of the gaps CONCLUSIONS Our team evaluated a revised framework and developed guidance for its application A final version is provided that incorporates revisions based on use of the framework across existing systematic reviews and feedback from other EPCs on their use of the framework Future research is needed to evaluate the relative costs and benefits of using the framework for review authors and for users of the systematic reviews

Public Response to Alerts and Warnings Using Social Media National Research Council, Division on Engineering and Physical Sciences, Computer Science and Telecommunications Board, Committee on Public Response to Alerts and Warnings Using Social Media: Current Knowledge and Research Gaps, 2013-02-04 Following an earlier NRC workshop on public response to alerts and warnings delivered to mobile devices a related workshop was held on February 28 and 29 2012 to look at the role of social media in disaster response This was one of the first workshops convened to look systematically at the use of social media for alerts and warnings an event that brought together social science researchers technologists emergency management professionals and other experts on how the public and emergency managers use social media in disasters In addition to exploring how officials monitor social media as well as the resulting privacy considerations the workshop focused on such topics as what is known about how the public responds to alerts and warnings the implications of what is known about such public responses for the use of social media to provide alerts and warnings to the public and approaches to enhancing the situational awareness of emergency managers Public Response to Alerts and Warnings Using Social Media Report of a Workshop on Current Knowledge and Research Gaps summarizes presentations made by invited speakers other remarks by workshop participants and discussions during parallel breakout sessions It also points to potential topics for future research as well as possible areas for future research investment and it describes some of the challenges facing disaster managers who are seeking to incorporate social media into regular practice

Methods for Identifying Health Research Gaps, Needs, and Priorities Eunice C. Wong, 2021 Well defined systematic and transparent processes to identify health research gaps needs and priorities are vital to ensuring that available funds target areas with the greatest potential for impact This report documents a scoping review of published methods used for identifying health research gaps establishing research needs and determining research priorities and provides relevant information on 362 studies Of the 362 studies 167 were linked to funding decisionmaking and underwent a more detailed data abstraction process The authors noted that most studies focused on physical health conditions but few addressed psychological health conditions The most frequent method for identifying research gaps needs and priorities was to convene workshops or conferences One third of studies employed quantitative methods and nearly as many used the James Lind Alliance Priority Setting Partnerships approach Other methods included literature reviews qualitative methods consensus methods and reviews of source materials The criterion most widely applied to determine health research gaps needs and priorities was the importance to stakeholders followed by the potential value and feasibility of carrying out the research The two largest stakeholder groups were researchers and clinicians More than one half the studies involved patients and the public as stakeholders Very few studies have evaluated the impact of methods used to identify research gaps needs and priorities This report provides a roadmap of methods used for identifying health research gaps needs and priorities which may help accelerate progress toward validating methods that ensure the effective targeting of funds to meet the greatest areas of need and to maximize impact

Permanent Supportive Housing National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Board on Population Health and Public Health Practice, Policy and Global Affairs, Science and Technology for Sustainability Program, Committee on an Evaluation of Permanent Supportive Housing Programs for Homeless Individuals, 2018-08-11 Chronic homelessness is a highly complex social problem of national importance The problem has elicited a variety of societal and public policy responses over the years concomitant with fluctuations in the economy and changes in the demographics of and attitudes toward poor and disenfranchised citizens In recent decades federal agencies nonprofit organizations and the philanthropic community have worked hard to develop and implement programs to solve the challenges of homelessness and progress has been made However much more remains to be done Importantly the results of various efforts and especially the efforts to reduce homelessness among veterans in recent years have shown that the problem of homelessness can be successfully addressed Although a number of programs have been developed to meet the needs of persons experiencing homelessness this report focuses on one particular type of intervention permanent supportive housing PSH Permanent Supportive Housing focuses on the impact of PSH on health care outcomes and its cost effectiveness The report also addresses policy and program barriers that affect the ability to bring the PSH and other housing models to scale to address housing and health care needs

Research Gaps in Alliance Dynamics Michael Don Ward, 1982

Practical Mapping for Applied Research and Program Evaluation Bernadette Wright, Steven E. Wallis, 2019-05-31 Practical Mapping for Applied Research and Program Evaluation is the first book to bring the mapping methodology to social research and program evaluation Bernadette Wright and Steven E Wallis guide readers through all phases of the research process learning from stakeholder experience reviewing existing knowledge in the field conducting new data collection such as interviews collaborating with other researchers and facilitating the use of knowledge for communication collaboration and action With plenty of illustrations and navigational aids such as travel tips the book is an accessible guide for busy students researchers and managers of all levels of experience

Bridging the Gaps Martin Ruhs, Kristof Tamas, Joakim Palme, 2019-03-28 What is the use of research in public debates and policy making on immigration and integration Why are there such large gaps between migration debates and migration realities and how can they be reduced Bridging the Gaps Linking Research to Public Debates and Policy Making on Migration and Integration provides a unique set of testimonies and analyses of these questions by researchers and policy experts who have been deeply involved in attempts to link social science research to public policies Bridging the Gaps argues that we must go beyond the prevailing focus on the research policy nexus by considering how the media public opinion and other dimensions of public debates can interact with research and policy processes The chapters provide theoretical analyses and personal assessments of the successes and failures of past efforts to link research to public debates and policy making on migration and integration in six different countries Germany the Netherlands Norway Sweden the United Kingdom and the United States as well as in European and global governance debates Contrary to common public perceptions and political demands Bridging the Gaps argues that all actors contributing to research public debates and policy making should recognize that migration integration and related decision making are highly complex issues and that there are no quick fixes to what are often enduring policy dilemmas When the different actors understand and appreciate each other's primary aims and constraints such common understandings can pave the way for improved policy making processes and better public policies that deal more effectively with the real challenges of migration and integration

Public Preferences and Institutional Designs Niva Golan-Nadir, 2022-12-25 This book explores the existence of gaps between public preferences and institutional designs in democracies and specifically cases in which such gaps are maintained for a long period of time without being challenged by the electorate Gaps such as these can be seen in the complex relations between the state and religion in Israel and Turkey and more specifically in their policies on marriage This line of investigation is interesting both theoretically and empirically as despite their poles apart policies Israel and Turkey share a similar pattern of institutional dynamics Existing explanations for this phenomenon suggested either civil society based arguments or intra institutional dynamics as reasons for the maintenance of such gaps This book enriches our understanding of policy dynamics in democratic systems by introducing a third line of argument one that emphasizes the effective role state institutions play in maintaining such arrangements for long periods often against the public will

Parallels, Interactions, and Illuminations Ersu Ding, 2010-01-01 The first major work in Sino Western comparative semiotics Parallels Interactions and Illuminations is a trans disciplinary and intercultural effort that makes intellectual connections not only across diverse academic fields but also between Chinese and Western theories of the sign

Patients and Caregivers as Developers of Medical Devices Moritz Göldner, 2021-02-23 Moritz Göldner analyzes the unexplored phenomenon of patients and caregivers as innovators with respect to their own unmet medical needs in two complementary studies In study 1 he uses a mixed method approach to analyze quantitative data from two datasets on more than 1 100 medical smartphone apps each and qualitative data from 16 interviews with developers of medical apps He finds substantial evidence that patients and caregivers develop medical apps and shows that those apps receive significantly better ratings than company developed apps In study 2 he further explores the commercialization activities of patients and caregivers by analyzing 14 case studies of patients and caregivers who successfully brought their tangible medical device on the market He finds that those innovators did not maximize their profits but rather sought to market their devices at reasonable prices to offer access to many other patients The author discusses these insights and draws conclusions for scholars and managers that are valid beyond this extreme case of user innovation About the author Moritz Göldner is an innovation consultant for user centered innovation in digital healthcare Prior to this position he was a project manager and research associate at the Institute for Technology and Innovation Management at Hamburg University of Technology His research interests cover user innovation in healthcare social innovation the emergence of new medical technologies as well as entrepreneurship

Environmental Public Health Impacts of Disasters Institute of Medicine, Board on Population Health and Public Health Practice, Roundtable on Environmental Health Sciences, Research, and Medicine, 2007-06-13 Public health officials have the traditional responsibilities of protecting the food supply safeguarding against communicable disease and ensuring safe and healthful conditions for the population Beyond this public health today is challenged in a way that it has never been before Starting with the 9 11 terrorist attacks public health officers have had to spend significant amounts of time addressing the threat of terrorism to human health Hurricane Katrina was an unprecedented disaster for the United States During the first weeks the enormity of the event and the sheer response needs for public health became apparent The tragic loss of human life overshadowed the ongoing social and economic disruption in a region that was already economically depressed Hurricane Katrina reemphasized to the public and to policy makers the importance of addressing long term needs after a disaster On October 20 2005 the Institute of Medicine's Roundtable on Environmental Health Sciences Research and Medicine held a workshop which convened members of the scientific community to highlight the status of the recovery effort consider the ongoing challenges in the midst of a disaster and facilitate scientific dialogue about the impacts of Hurricane Katrina on people's health *Environmental Public Health Impacts of Disasters Hurricane Katrina* is the summary of this workshop This report will inform the public health first responder and scientific communities on how the affected community can be helped in both the midterm and the near future In addition the report can provide guidance on how to use the information gathered about environmental health during a disaster to prepare for future events

Mapping Terrorism Research Magnus Ranstorp, 2006-11-22 Containing essays by an array of top international scholars this new book provides a comprehensive analytical critique of the current state of research in the terrorism and counterterrorism studies field what it has substantively achieved over the years and where it should be heading in the future Offering an overall examination of research achievements and gaps in scholarly efforts towards understanding terrorism as a complex behavioural and social phenomenon it also assesses various research approaches into counterterrorism studies clearly identifying a pathway for prioritized future research agendas in the field This future research agenda is further enhanced by the provision of an appendix containing 444 identified research topics developed by the United Nations Terrorism Prevention Branch *Mapping Terrorism Research* builds a cohesive interdisciplinary and high quality research agenda in terrorism and counterterrorism for future generations of academic students scholars as well as practitioners and will appeal to students of terrorism studies political science and international relations

Responding to Intimate Partner Violence and Sexual Violence Against Women World Health Organization, 2013 A health care provider is likely to be the first professional contact for survivors of intimate partner violence or sexual assault Evidence suggests that women who have been subjected to violence seek health care more often than non abused women even if they do not disclose the associated violence They also identify health care providers as the professionals they would most trust with disclosure of abuse These guidelines are an unprecedented effort to equip healthcare providers with evidence based guidance as to how to respond to intimate partner violence and sexual violence against women They also provide advice for policy makers encouraging better coordination and funding of services and greater attention to responding to sexual violence and partner violence within training programmes for health care providers The guidelines are based on systematic reviews of the evidence and cover 1 identification and clinical care for intimate partner violence 2 clinical care for sexual assault 3 training relating to intimate partner violence and sexual assault against women 4 policy and programmatic approaches to delivering services 5 mandatory reporting of intimate partner violence The guidelines aim to raise awareness of violence against women among health care providers and policy makers so that they better understand the need for an appropriate health sector response They provide standards that can form the basis for national guidelines and for integrating these issues into health care provider education

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Gaps In The Research Introduction

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