

School of Public Health and Preventive Medicine

Evidence map of studies evaluating methods for conducting, interpreting, and reporting overviews of systematic reviews – Stage I

Carole Lunny, PhD student, Monash University Melbourne, Australia

Sue Brennan, Steve McDonald and Jo McKenzie, Australasian Cochrane Centre

We have no actual or potential conflicts of interest in relation to this presentation.

Background

- Overviews of systematic reviews attempt to retrieve and summarise the results of reviews
- Steps for undertaking an overview mirror those of a systematic review, but with unique considerations
- Methods for conducting, interpreting, and reporting overviews of reviews are in their infancy
- To date, there has been no review mapping the evidence underpinning the methods used in overviews



Why do we need to evaluate methods?

- Conclusions of overviews rest on the methods used
- The choice of methods has implications in terms of bias, efficiency, usability, and resource use
- Evaluation of methods allow us to make informed choices about the most appropriate methods



Objectives

- Develop and populate a framework of methods that have, or may be used in conducting, interpreting, and reporting overviews (Stage I)
- Create an evidence map of studies that have evaluated these methods (Stage II)
- Identify and describe unique methodological challenges of overviews



Stages of the research: Stage I





Stage II

Stages of the research: Stage II





Framework Stage I

A framework was piloted

The coding framework comprised codes that represent the steps in conducting an overview

- Methods
- Description, rationale and considerations

Additional codes were generated inductively from three articles

Results - Stage I

Preliminary results for stage I presented here









Search methods for overviews

- Methods for identifying studies to be included in the overview
- The approach to searching may largely be the same as in systematic reviews
- However, there may be additional considerations specific to overviews



Search Methods Select sources



Search Methods Select sources



Search Methods >> Select sources



Search Methods Select sources



Search Methods Select sources







Search methods for additional primary studies



Searching for additional primary studies



Search methods for additional primary studies



Searching for additional primary studies Rerun a strategy specifically tailored to the overview question



Search methods for additional primary studies



Searching for additional primary studies Use pragmatic or selective approaches to searching for primary evidence



Next steps

- Complete Stage I by populating the framework with all identified methods for conducting an overview
- Map empirical evaluations of methods to the framework (Stage II)



Acknowledgments

- Funding
 - Funded by an Australian Postgraduate Award and an International Postgraduate Research Scholarship administered through Monash University, Australia

Carole Lunny, PhD student, Monash University, carole.lunny@monash.edu



Stages of the research

- DESIGN: Two stage methodological evidence mapping study of reports of overviews of reviews
 - Stage I identifies the methods from studies
 - Stage II that evaluate those methods
- DATA SOURCES: Cochrane Methodology Register, Meth4ReSyn library, the Scientific Resource Center Methods library of the AHRQ Effective Health Care Program, Cochrane Colloquium abstracts, and Medline. Expert opinion and reference checking and citation searching were also conducted
- STUDY SELECTION: All descriptive methods studies and studies evaluating methods, with overviews of reviews as the main unity of analysis were included, excluding network meta-analyses and non-English language

