

## ***Section 3.6.2***

# **Framework for Evaluating Complex Interventions**

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# Overview of the chapter structure:

- This chapter is divided into the following sections:
  - A framework for evaluating complex interventions
  - Knowledge translation, complex interventions and the iterative loop
  - Future research



# Key Learning Points

- The active ingredient(s) of complex interventions can be difficult to identify
- Stakeholders can inform trialists on which element(s) of a complex intervention are essential to reproduce
- Other types of evidence can improve the relevance of trials for policy makers
- The MRC Framework for the Development and Evaluation of Randomised Controlled Trials for Complex Interventions to Improve Health<sup>1</sup> provides a mechanism for formally integrating other types of evidence and may support the transfer of evidence based interventions
- External validity can be strengthened through the involvement of key health care decision makers



# A Framework for Evaluating Complex Interventions

- The MRC Framework provides an iterative step wise approach to determine the state of knowledge about a complex intervention

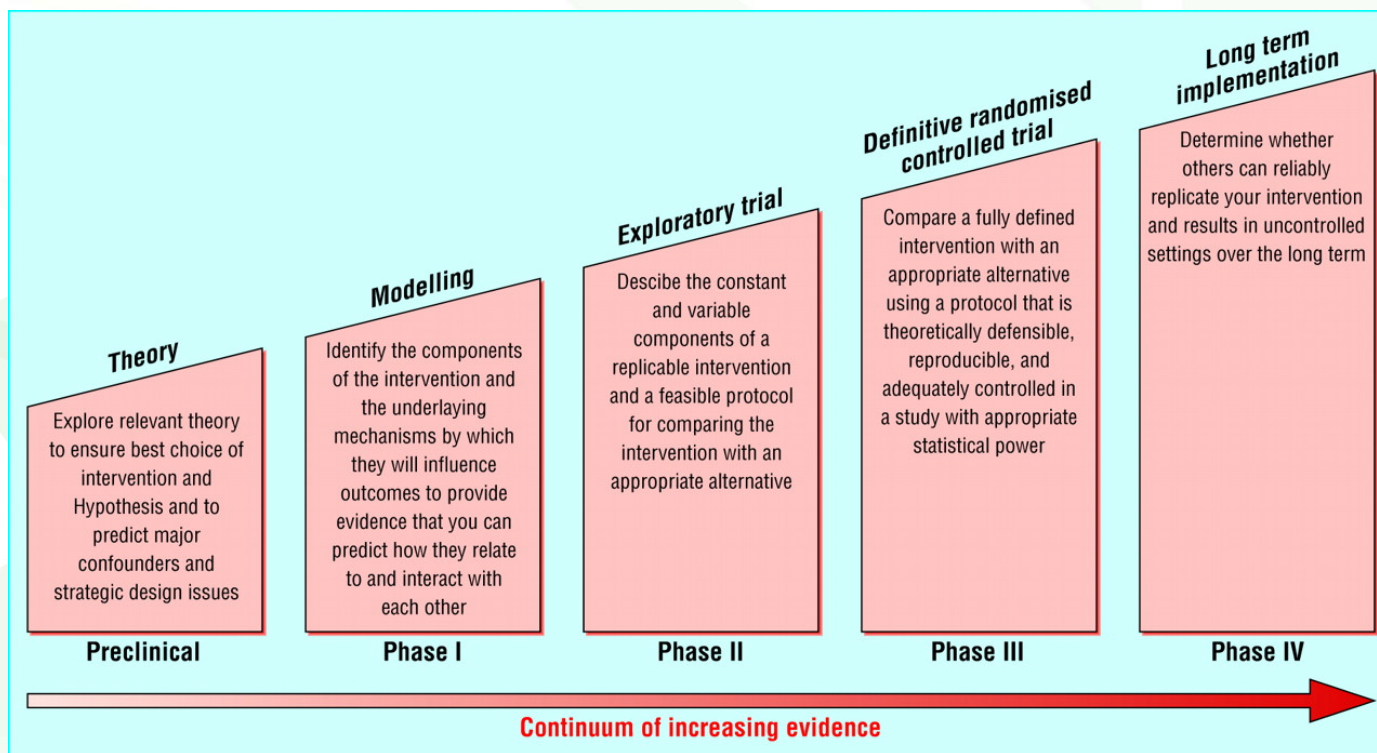


# MRC Framework for Evaluating Complex Interventions

- **Step 1 Defining the intervention**
  - Identify the existing evidence and any theoretical basis for the intervention in order to describe the components of the intervention
- **Step 2 An exploratory phase**
  - Assess the acceptability and feasibility of delivering the intervention, and the comparison intervention
  - Pilot the study design
- **Step 3 An explanatory phase**
  - The final trial design is implemented in a relevant setting with appropriate eligibility criteria
- **Step 4 A pragmatic phase**
  - Implementation and fidelity are examined
  - Key to KT



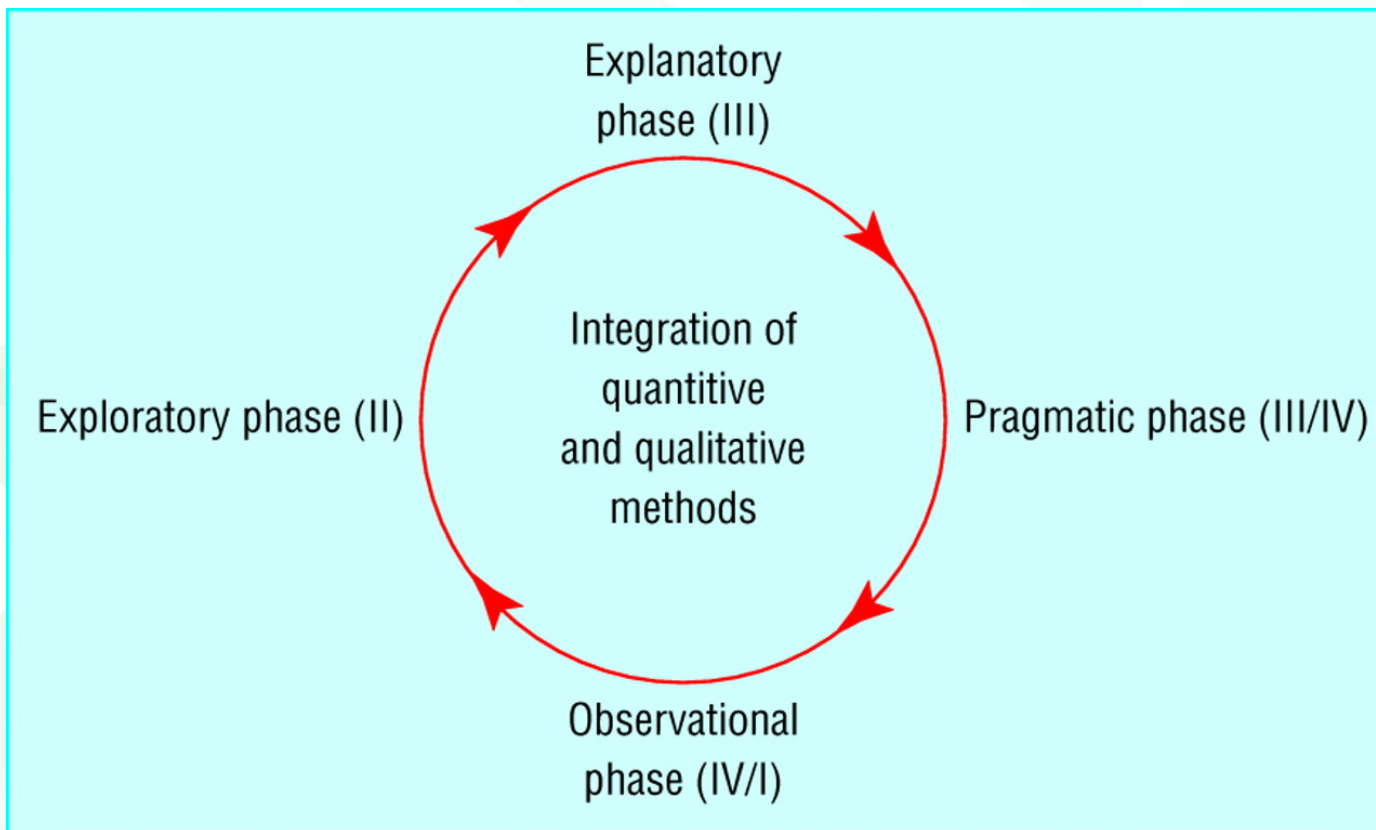
# MRC Framework for Evaluating Complex Interventions



Campbell, M. et al. *BMJ* 2000;321:694-696



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# Knowledge Translation, Complex Interventions and the Iterative Loop

- Involve decision makers in shaping the research question and defining the intervention
- Systematically identify and integrate additional forms of evidence relevant to decision makers
- Measure outcome and process variables relevant to KT
- Measure degree the intervention has been sustained outside a research setting
- Be aware of a changing political context





# Areas for Future Research

- Generate empirical evidence to assess the benefits of involving stakeholders, in the design phase of research, on subsequent implementation
- Research describing the iterative process, how key decision makers are identified and contribute to decision making

