

Cochrane系统评价的注册 与撰写: Part 2

邝心颖

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第五届全国循证药学论坛暨国家级继续医学教育 "循证药学与合理用药"培训班 2016年7月4-11日



培训内容

09:00-10:30 Cochrane协作网与系统评价概述

10:30-10:45 休息

10:45-11:45 Cochrane系统评价注册

12:00-14:00 午餐

14:00-15:15 Cochrane系统评价撰写: I

15:15-15:30 休息

15:30-16:45 Cochrane系统评价撰写: Ⅱ

16:45-17:00 总结



Cochrane系统评价的注册与撰写

- 1. Defining a review question
- Topic
 Review question
- 2. Preparing a review proposal
- Review question

 Review proposal
- 3. Writing a review protocol
- Review proposal

 Protocol



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Review proposal -> Protocol



Defining a review question



Defining your question

- Essential first step for your review
- Guides many aspects of your methods
 - Eligibility criteria
 - Search strategy
 - Data collection and analysis
- Think carefully in advance
 - Plan your work
 - Avoid bias
- Discuss with your CRG if changing your proposed question



Planning your topic and scope

- Address a question of importance and relevance
 - Impact of health issue population and individual
 - Possible impact of intervention
 - Consider all important stakeholders: consumers, health professionals, and policy makers
- Address real choices faced in decision-making
- Consider an international perspective

A broad or narrow question?

	Narrow	Broad
Advantages	Easy to writeEasy to read	ComprehensiveGeneralisable
Disadvantages	Need multiple reviewsMay be selectively defined	 Complex May miss subgroup effects Overview of reviews may be preferable



Components of a question

- Describe the following components in detail
- Consider variations you may wish to explore in the review
 - **P** population
 - **I** intervention
 - **C** comparison
 - O outcomes

Eligibility criteria

- Rules to decide which studies are included in the review
- Based on:
 - Some or all of your PICO components

Plus

- Definition of eligible study designs
- Any changes to the eligibility criteria after the protocol has been published need justification in the review

Population

- Clear definition to identify people of interest
- Two aspects to consider
 - Health condition
 - Diagnosed how, by whom?
 - Population and setting
- Any limits should have a clear rationale
 - Alternative is to include and explore in subgroup analysis

Mixed populations

- Studies in which only some participants meet your criteria
 - E.G. Your criteria: children up to 16 yrs,
 you find a study including up to 18 yrs
- What is most consistent with the aims of your review?
 - Include the whole study
 - Can select a threshold (e.g. 80%, or majority)
 - Include only those participants meeting your criteria
 - Separate information may not be reported in the paper
 - Exclude the whole study
- Plan and give a rationale for how you will manage these studies at the protocol stage

Equity and special populations

- Consider whether issues of equity and relevance to specific populations are important to the review
 - e.g. Gender, age, ethnicity, geographic, economic status, education, etc.

Why?

- Different prevalence, progress and impact of disease
- Different effects or safety of the intervention
- Different outcomes of importance

Intervention

- Give as much detail as possible
 - Formulation
 - Dose, intensity
 - Delivery
 - Timing, frequency, duration
 - Equipment
 - Personnel (qualifications, training)
 - Location, context
 - Alone or in combination with other intervention(s)
- Any limits should have a clear rationale
 - Alternative is to include and explore in subgroup analysis



Location and context

- Interventions may work in some contexts but not others
 - Availability and accessibility
 - Equipment
 - Experience and expertise of the available staff
 - Local competing priorities
 - Fee or payment structure
 - Cultural and linguistic diversity
 - Socioeconomic position
 - Rural/urban setting



Comparison

- Based on the objective of your review
 - Define specific active comparisons in as much detail as the intervention
 - Be clear what you mean by 'no intervention'
 - e.g. No intervention, placebo, usual care, etc.
 - Can remain open to any comparisons found, but be explicit

Outcomes

- Rarely part of the eligibility criteria
- Excluding studies on the basis of outcomes reported may introduce bias
 - Outcomes may be selectively reported by trial authors
 - Additional information may be available
- May be appropriate if outcomes are important to the definition of your question
 - e.g. Prevention vs treatment, interventions used for more than one condition
- Be clear in your protocol



Outcomes

- Identify meaningful outcomes
 - For consumers, health professionals, policy makers
 - Include adverse effects
 - Relevant to different populations
 - Key time points
 - Acceptable outcome measures (e.g. definitions, scales)
 - Avoid trivial outcomes (e.g. biochemical, surrogate, process)
- Consider core outcome sets and outcomes used by related reviews
- Plan for selection among multiple similar outcomes
- Important outcomes should be included in the protocol and the review whether or not data are likely to be found

Prioritizing outcomes

- Primary outcomes (max 3)
 - Usually includes at least one possible harm
- Secondary outcomes
 - Remaining main outcomes
 - Additional outcomes of lower priority
- Main outcomes (max 7)
 - Essential for decision making
 - Form the basis of analyses and summaries



Special outcome types

- Resources and advice available
 - Cochrane Adverse Effects Methods Group
 - Cochrane Patient Reported Outcomes Methods Group
 - Campbell and Cochrane Equity Methods Group
 - Campbell and Cochrane Economics Methods Group
 - Cochrane Qualitative Research Methods Group
 - see www.cochrane.org/contact/methods-groups



Study designs

- Select the most appropriate design for the question
- Always give a rationale for your choice
- For most Cochrane reviews:
 - Randomized controlled trials
- Non-RCTs
 - Must have the agreement of your CRG
 - Clear rationale
 - RCTs are not appropriate or unlikely to be practical (e.g. Public health, complex health system topics)
 - To measure particular outcomes
 (e.g. Adverse effects, economics, qualitative outcomes)
 - Not just because RCTs are not available



Non-randomized studies

- Must have the agreement of your CRG
- Clear rationale
 - RCTs are not appropriate or unlikely to be practical (e.g. Public health, complex health system topics)
 - To measure particular outcomes
 (e.g. Adverse effects, economics, qualitative outcomes)
 - Not just because RCTs are not available
- Specific designs preferred
 - e.g. Controlled before-and-after, interrupted time series
 - Describe using elements of the study's design, not labels
 - Minimum design criteria should apply
- Be aware of increased risk of bias



Turning a question into a title

- Cochrane titles have standard formats
- 'intervention' for 'issue'
 - Antibiotics for acute bronchitis
 - Community-wide Interventions for increasing physical activity
- can also include other details:
 - Immediate versus delayed treatment for cervical intraepithelial neoplasia
 - Inhaled nitric oxide for respiratory failure in preterm infants
 - Pool fencing for preventing drowning in children





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Authors External **Cochrane Review Group** Managing editor checks if form Submit review proposal is complete and acknowledge receipt Managing editor checks for overlap, TSC checks for recent systematic reviews and relevant RCTs Advice from contact or Co-ordinating Editors discuss expert editors as required and decide Authors' response Query Accept Reject Managing Editor emails authors

with decisions



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Writing a protocol



Rationale for protocols

- Systematic reviews involve judgements
 - e.g. Question definition, eligibility, outcome measures
 - Retrospective research decisions should not be based on known results
- Decide and document methods in advance
 - Reduce impact of bias
 - Allow peer review
 - Reduce duplication
 - Plan tasks and allocate resources
 - Published in The Cochrane Library
 - Published review will contain a link to your protocol







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OTHER RESOURCES

Other Reviews

Trials

Methods Studies

Technology Assessments

Economic Evaluations

Intervention Protocol

Behavioural interventions as adjuncts to pharmacotherapy for smoking cessation

from The Cochrane Collaboration

Lindsay F Stead*, Tim Lancaster

Database Title

The Cochrane Library

Addiction Group

Published Online: 15 FEB 2012 DOI: 10.1002/14651858.CD009670

Editorial Group: Cochrane Tobacco

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Additional Information (Hide All)

How to Cite | Author Information | Publication History

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Published Online: 15 FEB 2012





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Jump to...

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Abstract

This is the protocol for a review and there is no abstract. The objectives are as follows:

To evaluate the effect of providing more intensive behavioural support for people using smoking cessation medication

What to include in your protocol

- Background
 - Detailed description of the condition and intervention
- Methods
 - Criteria for considering studies for this review
 - Clear description of eligibility criteria
 - List planned outcome measures
 - Data collection and analysis
 - List planned subgroup analysis



Authors

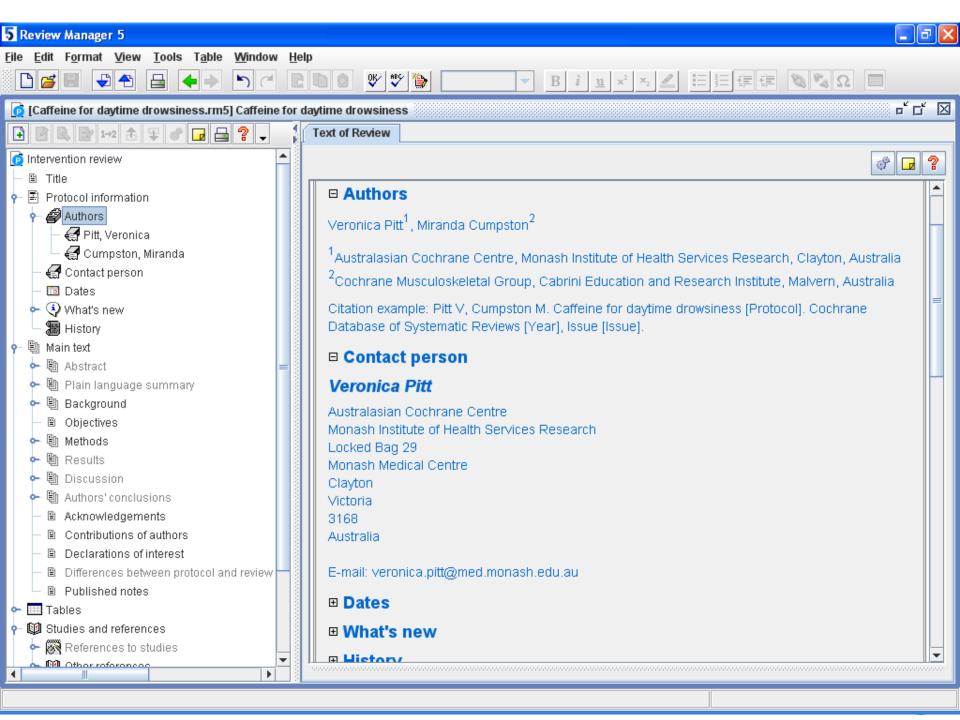
- Make a substantial contribution to
 - Conception and design of review, or analysis and interpretation of data
 - Drafting review or providing critical comments on intellectual content
 - Final approval of document to be published
- Specific contributions listed in 'contribution of authors' section
- Individuals, groups or both
- Order of authors relative to their contribution
- Institutional affiliations will be published



Contact person

- Usually responsible for
 - Organising review team
 - Communicating with CRG
 - Monitoring progress with agreed timeline
 - Submitting completed protocol/review
 - Communicating feedback to co-authors
 - Ensuring updates are prepared
- Does not have to be an author
- Full contact details will be published





Writing your protocol

- Accessible language
 - Easy to read and understand by someone who is not an expert
- Future tense, active voice
- Use the Cochrane style guide
 - www.cochrane.org/training/authors-mes/cochrane-styleguide
 - Terminology, statistics, spelling, references, formatting, etc.



Cochrane Style Guide 4.1 edition



Background

- Put the review in context with the existing body of knowledge
 - Description of the condition and its significance
 - Description of the intervention
 - How the intervention might work
 - Why it is important to do the review

Objectives

- A precise statement of the primary objective
- Usually one sentence
- May also include specific objectives relating to different
 - Participant groups
 - Comparisons of interventions
 - Outcome measures

To assess the effects of [intervention or comparison] for [health problem] for/in [types of people, disease or problem and setting if specified].



Methods

- Plan what you will do before you start
 - Minimize bias
 - Divide work among review authors and establish timeline
 - Enough detail so that the decisions and methods could be replicated
- Select methods likely to deliver the best evidence on which to base decisions
 - Consult your CRG they may have a standard template
- Anticipate that a useful number of studies will be found
 - May be the case in future updates, if not now



Methods

- Eligibility criteria
- Outcomes
- Searching
- Data collection
- Risk of bias assessment
- Analysis
- Summarising findings

Additional information

- Acknowledgements
- Contributions of authors
- Declarations of interest
- Sources of support
- Any additional tables or appendices

When your protocol is complete

- Check the details
 - Spell check, validation check, CRG checklist
- Submit to your CRG for editorial approval
- Expect internal and peer review
 - ME, editor(s), statistical editor, peer referees, consumer
 - Like any journal, may take several months
- When it has been approved
 - Complete license for publication & declaration of interest forms
 - Commence review
 - Will be published immediately





RevMan: 复习





Review Manager (RevMan)

- Mandatory software for writing and publishing your review
- Available from http://ims.Cochrane.Org/revman
- Free for Cochrane authors and academic use





- Cochrane Collaboration central database
 - Stores all reviews and contact information
 - The Cochrane Library is published directly from Archie
- Use RevMan to access reviews in Archie
 - Need a user account and password (ask your CRG)



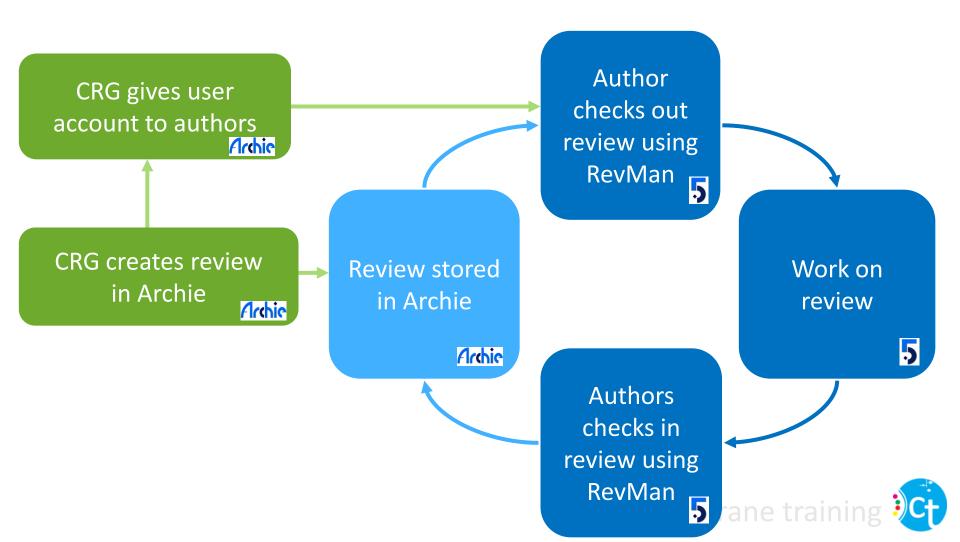




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Working with RevMan

- For protocols, reviews and updates
 - Writing the text
 - Statistical analysis
 - Reference management
 - Submission for editorial review and publication



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