

Evidence Based Dentistry

Cochrane Collaboration

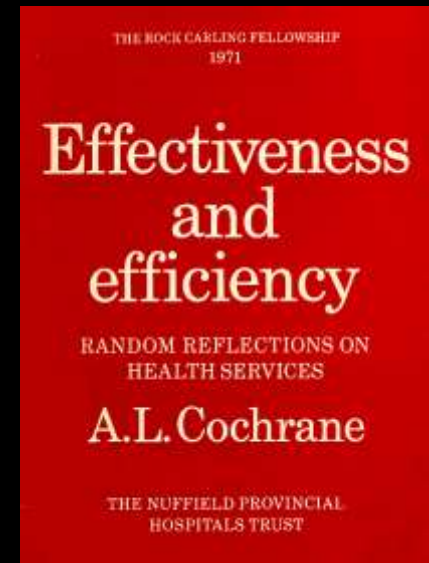
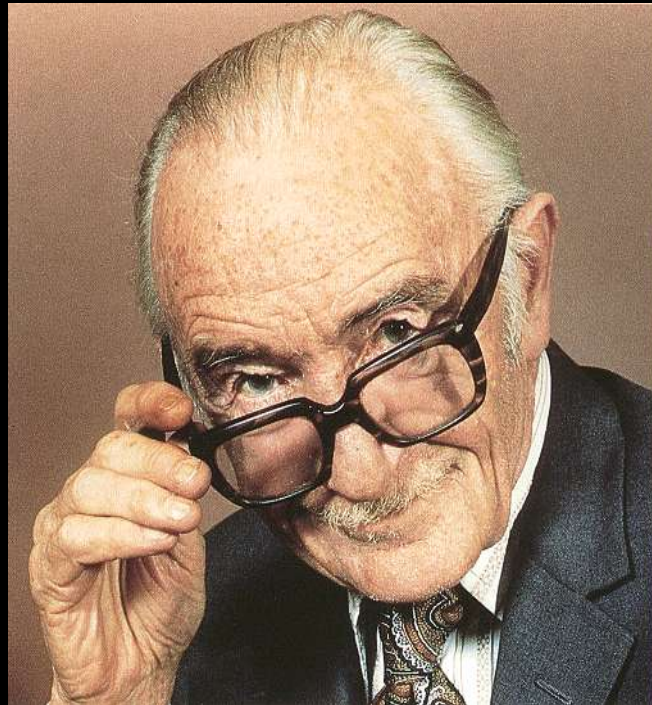
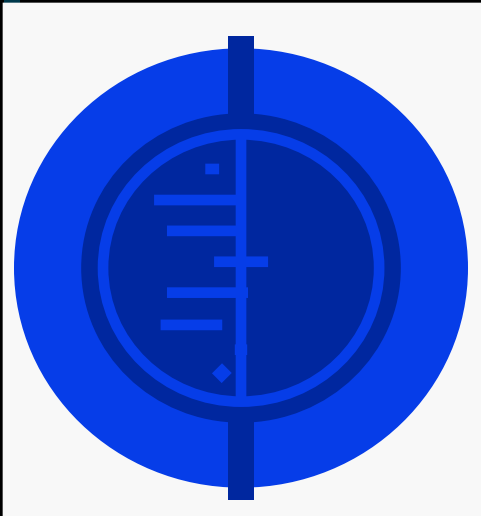
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Cochrane Collaboration

International organisation that aims to help people make well-informed decisions about healthcare by preparing, maintaining and promoting the accessibility of systematic reviews of the effects of health care interventions.

Archie Cochrane



“It is surely a great criticism of our profession that we have not organized a critical summary, by specialty or subspecialty, adapted periodically, of all relevant randomized controlled trials.”

The Cochrane Collaboration - origins

- Pregnancy and childbirth work - 1980s
- NHS R&D Information Systems Strategy - 1992
 - UK Cochrane Centre - 1992
 - NHS CRD - 1994
 - National Research Register - 1997
- Cochrane Collaboration - 1993 onwards

Methods

- Produce and update systematic reviews
- Hand search for RCTs
- Medline (and others) enhancement
- Review methodology
- Cochrane Library

Cochrane organisation

- Collaborative Review groups (CRGs)
- Cochrane Centres
- Fields
- Networks
- Methods working groups

Cochrane Library databases (4)

1. Cochrane Database of Systematic Reviews (CDSR)

- Full text systematic reviews - ongoing and completed
- Meta-analyses diagrams

2. Database of Abstracts of Reviews of Effectiveness (DARE)

- Assessments of reviews
- Focus on methodology

Cochrane Library databases

3. Cochrane Controlled Trials Register (CCTR)

- Bibliographic references to trials

4. Cochrane Review Methodology Database (CRMD)

- References to methodology studies

And also ...

- Cochrane Collaboration info
- WWW links, INAHTA database
- Cochrane Handbook
- User manual
- Glossary
- Release notes

When should you use the Cochrane Library?

For questions on effectiveness

- What is the effectiveness of treatment x
- What is an effective treatment for y
- Is z effective in treating y
- Is z better than x at treating y

When not to use the Cochrane Library

- General healthcare questions
 - causal, prognosis, epidemiology, etc.
- Statistics (prevalence and incidence)
- Primary research other than RCTs
- Guidelines
- Current research

Cochrane Oral Health Review Group - Background

Aug 1996: UK Base established

Jul 1997: Funding secured

Feb 1998: Official opening

Sep 2000: 3 reviews, 19 protocols, 11 titles

Aug 2001: 5 reviews, 22 protocols, 20 titles

COHG achievements

- Worldwide list of members
- Panel of referees
- List of potential reviewers
- Areas for review
- Set up Specialist Register
(> 10.500 entries)

COHG achievements- cont.

- ❑ Established hand-searching programme
- ❑ Published 5 news letters
- ❑ Conducted workshop for reviewers and hand-searchers
- ❑ Developed hand-searching training workbook

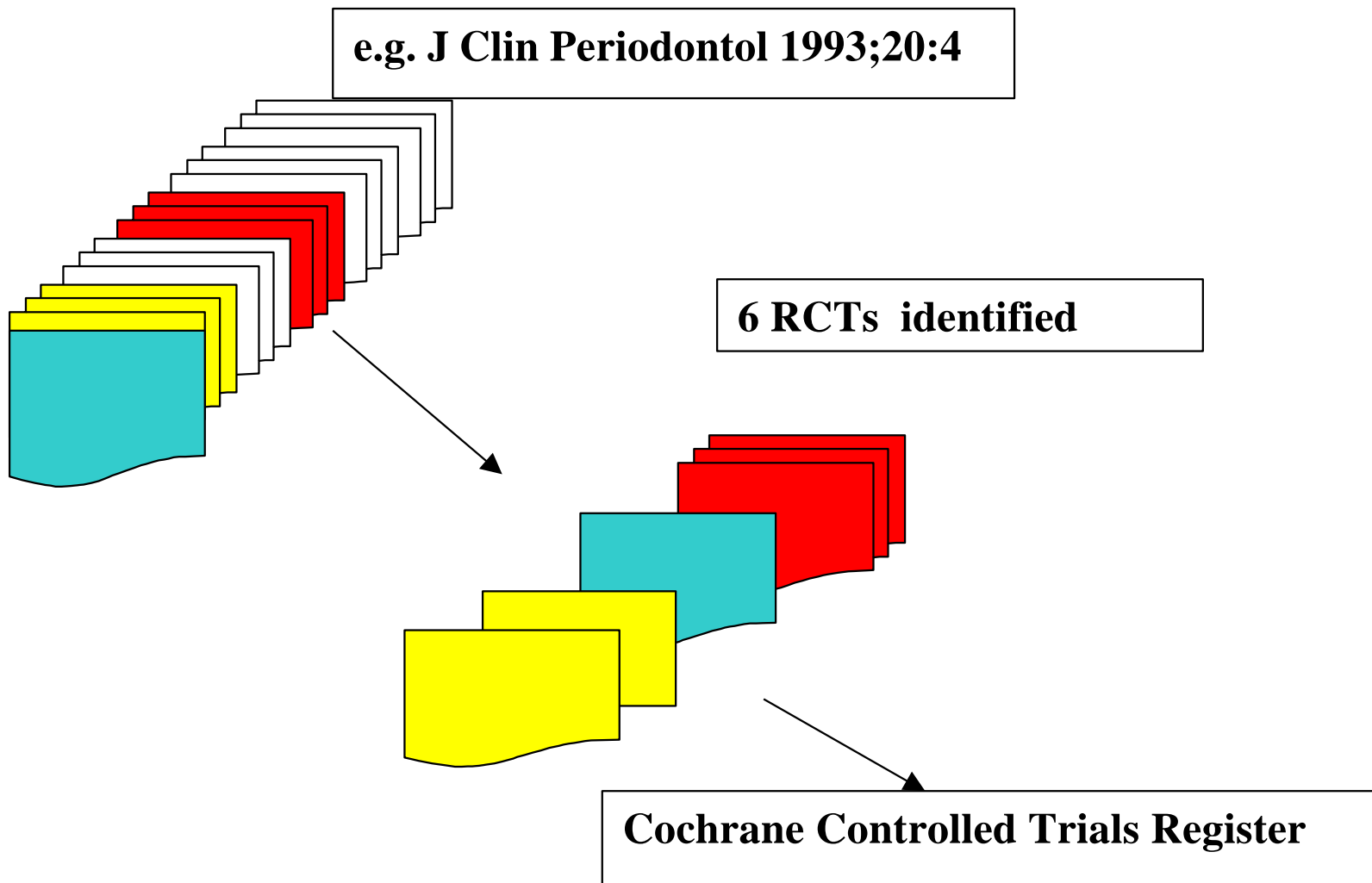
Scope of OHG

Include all randomised controlled trials of oral health broadly conceived to include the prevention, treatment and rehabilitation of oral, dental and craniofacial diseases and disorders

OHG Specialist Register

- Database of trials* related to scope of group
 - **RCTs, CCTs and associated material such as conference proceedings, research abstracts*

Reviews: phase 1: hand searching of the literature...



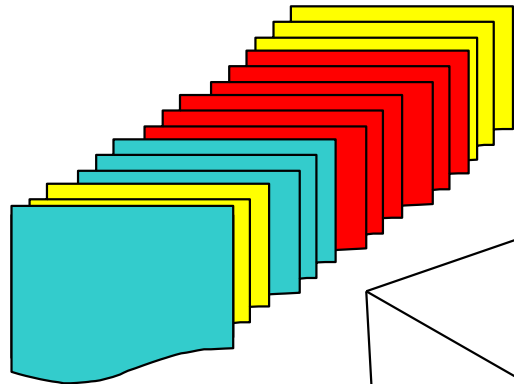
Undertaking a systematic review

- Register title
- Prepare protocol
- Editorial and external review of protocol
- Protocol entered on Cochrane Library
- Identify trials
- Complete systematic review
- Peer review of systematic review
- Systematic review entered on Library

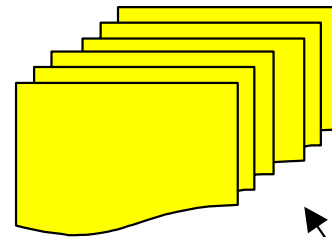
Phase 2...literature search

Systematic Review topic A

Cochrane Controlled Trials Register

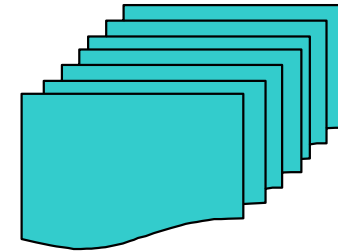
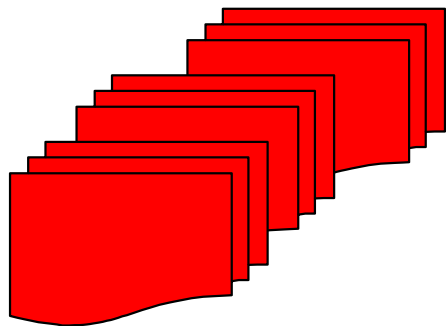


Systematic Review topic B

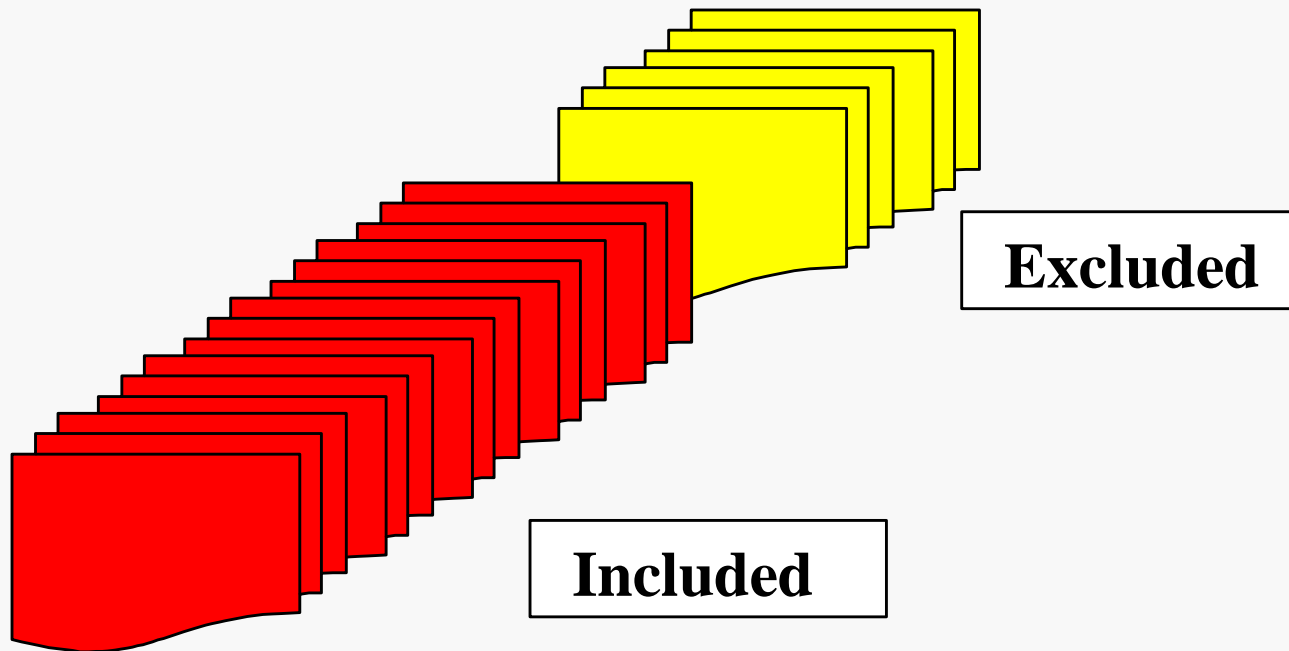


Medline Embase etc.

Systematic Review topic C



Phase 3 ... selection of studies.



Systematic Review topic C

Status of current OHG reviews

Reviews

Protocols

Protocols out with referees

Registered titles

Completed reviews on Oral care in the Cochrane Library

- Orthodontic treatments for posterior crossbites
- Interventions for treating oral lichen planus
- Interventions for preventing oral mucositis or oral candidiasis for patients with cancer receiving chemotherapy (excluding head and neck cancer)
- Guided tissue regeneration for periodontal infra-bony defects
- Potassium nitrate toothpaste for dentine hypersensitivity
- Interventions for the treatment of burning mouth syndrome

Protocols in Cochrane Library - examples

- Interventions for treating oral leukoplakia
- Interventions for replacing missing teeth with or without osseointegrated implants
- Interventions for treating oral mucositis or its associated pain for patients receiving chemotherapy and or radiotherapy
- Glues for fixing dental braces onto teeth

Protocols out to referees - examples

- Stabilisation splint therapy for temporomandibular pain dysfunction syndrome
- Hyaluronate for treating organic disorders of the TMJ
- Pharmacological treatments for fear/anxiety in patients undergoing routine dental procedures
- Retention procedures for stabilising tooth position after treatment with orthodontic bra

Titles registered with OHG - examples

- Feeding interventions for infants with cleft lip, cleft palate or cleft lip and palate
- Fluoride therapy for the treatment of dental caries
- Pilocarpine for radiation induced xerostomy
- Therapeutic trials for recurrent (aphthous) oral ulcer
- Fluorides for the prevention of enamel demineralisation during orthodontic treatment