Database Search Tips and Techniques

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Search

Range of sources to identify studies

GreenhalgH, T, Peacock R. Effectiveness and efficiency of search methods in systematic reviews of complex evidence: audit of primary sources. BMJ 2005 Nov5;331(7524):1064-5

Published literature

Electronic bibliographic databases Citation chasing Handsearching Unpublished literature (grey) All of the above Additional sources Handsearching Contacts with researchers



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Search stages

Development of strategy - iterative

- ✓ Choice of search terms
- ✓ Combinations
- ✓ Limits

Adapting search in chosen sources

- ✓ Adjusting subject headings
- ✓ Editing syntax
- ✓ Revising limits



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Search Process:

What is the full range of keywords, phrases and subject headings that capture a concept thoroughly?



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Search Process:

How should keywords, phrases and subject headings be combined to capture concepts logically?

AND, OR, ADJACENCY



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<u>Subject</u> heading

Subject field

Definition

Explode Qualifiers



Title & abstract fields

Synonyms Spellings

Truncation

SUBJECT HEADINGS

- Controlled vocabulary
- Searches descriptor or subject field
- Increases relevance
- Indexing is at most specific level
- Explode includes more specific items in Tree
- Subheading qualify
- Indexers are only human eg Calves (about

legs) indexed with Cattle/



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TOOLS for Subject Headings

- *Scope notes* definition and search notes
- *Entry terms* useful for finding synonyms
- *Date introduced* history of when used
- *Tree structure* more information
- *Explode* gather more specific terms
- *Focus* arbitrary importance of concept
- *Subheadings* qualifiers



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KEYWORDS

- Not standard
- Searches many fields, usually title and abstract
- Use truncation (parts of words) or phrases
- Degree of irrelevancy
- Need to include synonyms, variant word endings (plurals, adjectives), variant spelling (US/UK)
- Useful when 0 subject heading or RECENT literature



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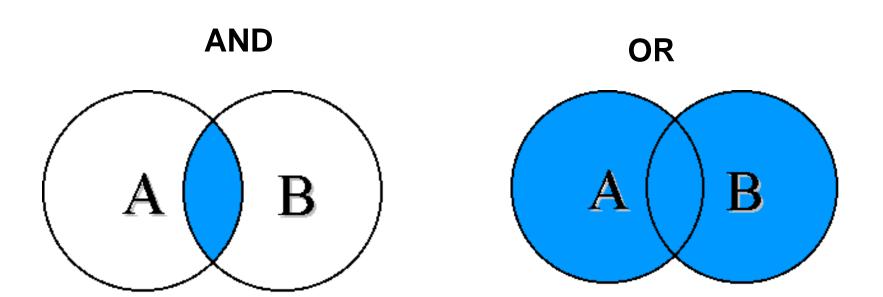
TOOLS for Keywords

- Truncation *
- Wildcards ?, #, *
- Adjacency, near, within
- Phrase " "



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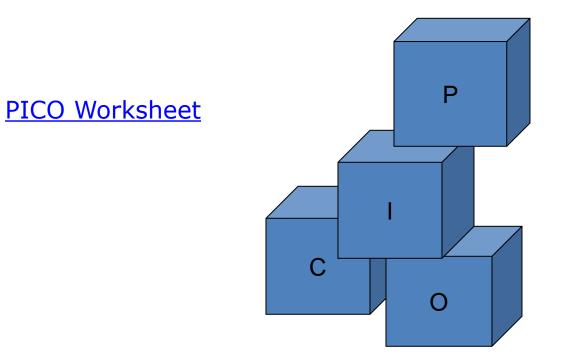
PUTTING IT ALL TOGETHER





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BUILDING BLOCKS





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Among (P) does (I) or (C) effect (O)?



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Among children with acquired brain injuries does the use of wii improve balance?



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Analysed

- P = Children with acquired brain injuries
- I = WII
- C = traditional rehab
- O = improved balance



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TUTORIALS ON SEARCHING TECHNIQUES

Medline Ovidsp Pubmed Web of Science



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