Reviews of Reviews: just how meta does it get?

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What is a Review of Reviews

Reviews of reviews and Systematic reviews are very much alike

What are the similarities?

Systematic review

Review of reviews

Use a protocol

Screening process

Data Extraction

Synthesis

So what's the difference?

Although they are similar, there are two main differences between them

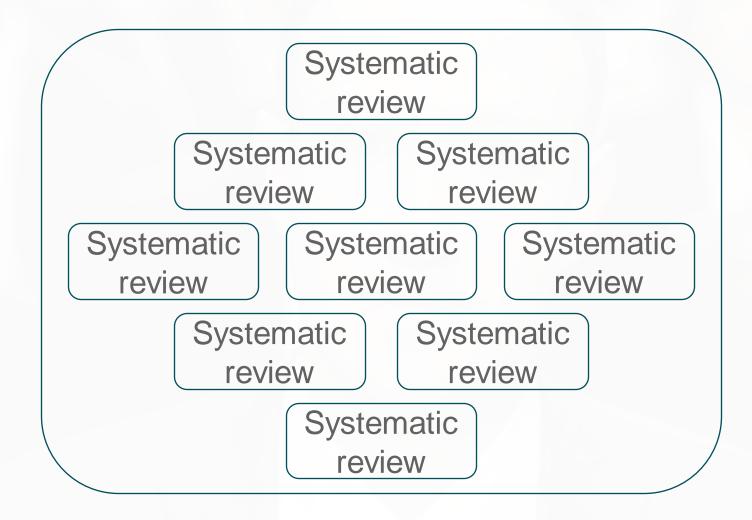
What's being reviewed

Checking overlap

Systematic review

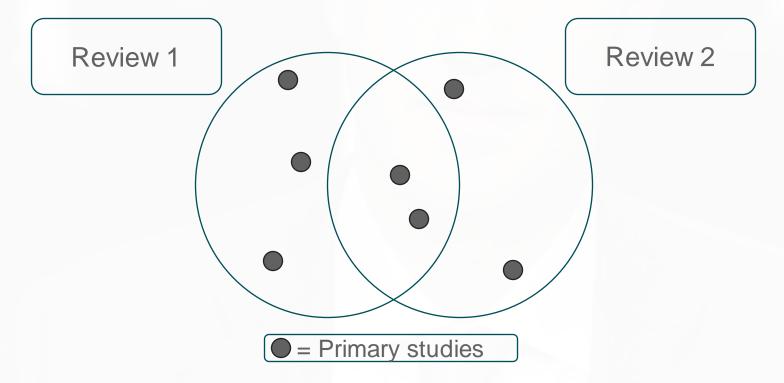
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Review of reviews



Overlap

- Reviews of reviews analyse systematic reviews
- Each of the systematic reviews can overlap



Citation matrices

	Review 1	Review 2	Review 3	Review 4
Primary publication 1	x			
Primary publication 2	x			x
Primary publication 3	x	x	x	X
Primary publication 4	x	x	x	
Primary publication 5	x	x		x
Primary publication 6	x			
Primary publication 7	x	x	x	
Primary publication 8	x			
Primary publication 9		x		
Primary publication 10		x		
Primary publication 11				x
Primary publication 12				x

$$CA (covered area) = \frac{N}{r c}$$

$$CCA (Corrected CA) = \frac{N - r}{r c - r}$$

Table 1. Interpretation of CCA

CCA	Overlap	
0-5	Slight	
6-10	Moderate	
11-15	High	
>15	Very high	

Abbreviation: CCA, corrected covered area.

Screenshots taken from Pieper et al. 2014

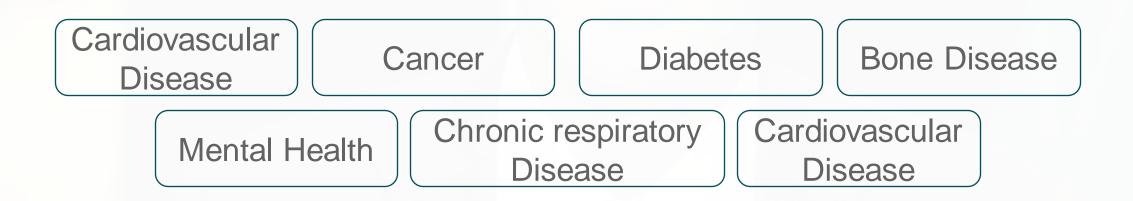
Citation Matrices

- Not a perfect solution
- If one study has many more primary studies than another it can affect how well the method works

Number of Reviews (c)		Number of Unique publications (r)	CCA
2	189	37	0%

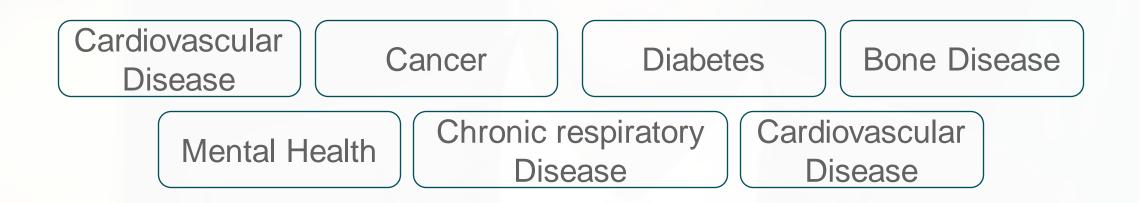
How I'm using it

- NCD Umbrella review
- The goal is to provide an overview of the current coverage by systematic reviews on NCD's in 7 key areas



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The end

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