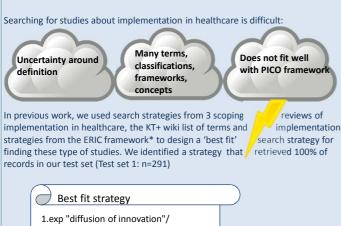
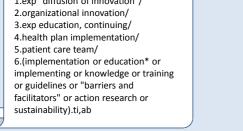
Searching for implementation evidence: identifying commonly used terms in systematic reviews of implementation in healthcare

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Background





*Waltz TJ, Powell BJ, Matthieu MM, Damschroder LJ, Chinman MJ, Smith JL, et al. Use of concept mapping to characterize relationships among implementation strategies and assess their feasibility and importance: results from the Expert Recommendations for Implementing Change (ERIC) study. Implementation Science. 2015;10(1):1-8.

Aim of current work

To test the sensitivity of key terms against high quality studies held in the Rx for Change database (<u>https://www.cadth.ca/rx-change</u>), and the sensitivity of our previous 'best fit' strategy.

Method

We located reviews from Rx for Change with an AMSTAR rating of 8-11 (Test set 2: n=116) on PubMed and exported them into EndNote. We then exported the records into MEDLINE via Ovid using the MEDLINE unique reference number as export filter. This meant that the Rx for Change records were in 1 complete set, using the unique reference number (.ui) as a field code, so that they could be easily tested against our pre-selected search terms:

(1301859 OR 2497616 OR 7636102 OR 8994493 OR 9114539 OR 9640857 OR 9755733 OR 10027113 OR 10362972 OR 11089654 OR 11139669 OR 11261067 OR 11555061 OR 11583120 OR 11583122 OR 11956519 OR 12073871 OR 12100662 OR 12433319 OR 12650381...etc.).ui

Results 1

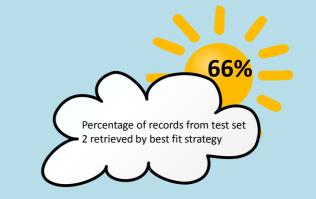


Word cloud: most useful terms across both data sets

Results 2

Test set 1 (scoping reviews)	Test set 2 (Rx for Change)
Implementation 76%	Education 36%
Education 29%	Knowledge 19%
Implementing 23%	Training 16%
Knowledge 27%	Guidelines 13%
Training 18%	Implementation 6%
Guidelines 18%	'audit and feedback' 4%
Exp "diffusion or innovation"/ 17%	Incentives 4%
"barriers and facilitators" 11%	Dissemination 3%
Organisational innovation/ 11%	Exp education, continuing/ 3%
Guideline adherence 8%	Patient care team/3%
Leadership 8%	Behaviour change 3%
Dissemination 8%	Media 3%

Table 1: Sensitivity (percentage recall) of key terms, phrases and subject headings across 2 test groups



Conclusion

- Field of implementation research remains slippery in terms of definitions, search terms and study selection
- Databases such as Rx for Change might be valuable in reducing work load in reviews of implementation
- There are common keywords and subject headings used in implementation research
- A standardised approach to carrying out and reporting implementation research would be extremely helpful in framing searches and reporting results

Possible solution: A new framework?

SCOOPS

- Staff/Setting: care home staff, nurses, hospital staf.
- Condition/Circumstance: dementia/bed sores/handwashing
- Output (process): better handwashing, turning patients
- Outcome (clinical): less germs, less bed sores
- Process description: dissemination/implementation/barriers & facilitators
- Strategy interventions: guidelines, workshops, audit & feedback \wedge

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