Using citation tracking for systematic literature searching - study protocol for a scoping review of methodological studies and an expert survey [version 1; peer review: 2 approved with reservations]

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Abstract

Background: Up-to-date guidance on comprehensive study identification for systematic reviews is crucial. According to current recommendations, systematic searching should combine electronic database searching with supplementary search methods. One such supplementary search method is citation tracking. It aims at collecting directly and/or indirectly cited and citing references from "seed references". Tailored and evidence-guided recommendations concerning the use of citation tracking are strongly needed.

Objective: We intend to develop recommendations for the use of citation tracking in health-related systematic literature searching. Our study will be guided by the following research questions: What are the benefits of citation tracking for health-related systematic literature searching? Which perspectives and experiences do experts in the field of literature retrieval methods have with regard to citation tracking in health-related systematic literature searching?

Methods: Our study will have two parts: a scoping review and an expert survey. The scoping review aims at identifying methodological studies on benefits or problems of citation tracking in health-related systematic literature searching with no restrictions on study design, language, and publication date. We will perform database searching in MEDLINE, The Cumulative Index to Nursing and Allied Health Literature (CINAHL), Web of Science Core Collection, two information
science databases, and free web searching. Two reviewers will independently assess full texts of selected abstracts. We will conduct direct backward and forward citation tracking on included articles. The results of the scoping review will inform our expert survey through which we aim to learn about experts’ perspectives and experiences. We will narratively synthesize the results and derive recommendations for performing health-related systematic reviews.

**Keywords**
Citation Tracking, Literature Search, Supplementary Search, Methods, Scoping Review, Research Methodology, Survey, Systematic Review

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**Corresponding author:** Hannah Ewald (hannah.ewald@unibas.ch)

**Author roles:** Hirt J: Conceptualization, Investigation, Methodology, Project Administration, Validation, Visualization, Writing – Original Draft Preparation, Writing – Review & Editing; Nordhausen T: Conceptualization, Investigation, Methodology, Validation, Visualization, Writing – Review & Editing; Appenzeller-Herzog C: Conceptualization, Investigation, Methodology, Validation, Visualization, Writing – Review & Editing; Ewald H: Conceptualization, Investigation, Methodology, Project Administration, Supervision, Validation, Visualization, Writing – Review & Editing

**Competing interests:** No competing interests were disclosed.

**Grant information:** The author(s) declared that no grants were involved in supporting this work.

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Introduction

Systematic reviews are considered to be of high clinical and methodological importance as they help to derive recommendations for health care practice and future research. A comprehensive literature search aiming to identify the available evidence as completely as possible is the foundation of every systematic review. Due to an ever-growing research volume, lack of universal taxonomy and indexation, as well as extensive time requirements for identifying studies in a systematic way, effective search approaches are required. According to current recommendations, systematic search approaches should include both electronic database searching and one or several supplementary search methods. Potential supplementary search methods include citation tracking, contacting study authors or experts, handsearching, trial register searching, and web searching. In this study, we focus on citation tracking.

Citation tracking is an umbrella term for multiple methods which directly or indirectly collect related references from so-called “seed references”. These references are usually eligible for inclusion into the review and known at the start of the citation search. In the workflow of a systematic review, seed references for citation tracking often are records derived from screening bibliographic database search results. The taxonomy used to describe the principles of citation tracking is non-uniform and heterogeneous. Citation tracking methods are sub-categorized into direct and indirect citation tracking (Figure 1a). For direct citation tracking, the words “backward” and “forward” denote the directionality of tracking. Backward citation tracking is the oldest form of citation tracking. It aims at identifying references cited by a seed reference - which can easily be achieved by checking the reference list. Terms like “footnote chasing” or “reference list searching” are synonyms. In contrast, forward citation tracking or chaining aims at identifying citing references, i.e. references that cite a seed reference. Indirect citation tracking describes the identification of (i) co-cited references or co-citations (i.e. other references cited by citing literature of a seed reference) and of (ii) co-citing references (i.e. references sharing references with a seed reference). Direct and indirect citation relationships of references based on a seed reference are illustrated in Figure 1b. Both direct and indirect citation tracking may contain one or more layers of iteration. To this end, researchers may use newly retrieved references as new seed references.

Direct backward citation tracking of cited references is currently the most common citation tracking method. However, recent guidance suggests that combining several citation tracking methods (e.g. screening cited, citing, co-cited and co-citing references) may be the most effective way to use citation tracking for systematic reviewing. It is quite possible that the added value of any form of citation tracking is not the same for all systematic reviews. It rather depends on a variety of factors. For instance, citation tracking may be especially beneficial in case of (i) complex searches (e.g. for reviews on public health topics), (ii) searching for health outcome measurement instruments, or (iii) research areas without consistent taxonomy, with vocabulary overlaps with other fields, or with a lack of index terms in databases (e.g. methodological topics). Hence, tailored and evidence-guided recommendations on the use of citation tracking are strongly needed. However, none of the current topical reviews has in fact systematically identified available evidence on the use and benefits of citation tracking in the context of systematic literature searching.

Therefore, the aim of our study is to develop recommendations for the use of citation tracking in health-related systematic
literature searching and to identify research gaps. Our study will be guided by the following two research questions:

- What are the benefits of citation tracking for health-related systematic literature searching?
- Which perspectives and experiences do experts have with regard to citation tracking in health-related systematic literature searching?

Protocol
This protocol is reported according to the “Preferred Reporting Items for Systematic review and Meta-Analysis Protocols” (PRISMA-P) checklist. Details on the structure of our manuscript reporting related to PRISMA-P are provided elsewhere. Our study will have two parts: a scoping review and an expert survey. The scoping review has the objective to map the benefits or problems of citation tracking or, if that is not sufficiently informative, possible gaps in related research. The objective of the expert survey is to identify the perspectives, experiences and perceptions of experts in the field of literature retrieval methods with regard to citation tracking. Together, the scoping review and expert survey will serve as a basis to derive implications and recommendations for current practice and future research. For the scoping review, we will use the framework by Arksey and O’Malley and the “Preferred Reporting Items for Systematic reviews and Meta-Analyses extension for Scoping Reviews” (PRISMA-ScR). Since an expert survey can be part of a scoping review, and the scoping review and the expert survey serve the same overall aim, we will follow methodological recommendations for scoping reviews and the “Strengthening The Reporting of Observational Studies in Epidemiology” (STROBE) statement.

Scoping review

Eligibility criteria. We will include any study with a focus on citation tracking as a means of evidence retrieval method which exhibits one of the following criteria: benefits/problems and/or effectiveness of (i) citation tracking in general; (ii) different methods of citation tracking (e.g. backward vs. forward, direct vs. indirect); or (iii) technical uses of citation tracking (e.g. comparing platforms and/or tools, e.g. Scopus vs. Web of Science, Oyster, Voyster). Eligible studies need to have a health-related context. Studies without an explicitly specified research context are also eligible. There will be no restrictions on study design, language, and publication date. We will exclude studies solely using citation tracking for evidence retrieval, e.g. a systematic review applying citation tracking as a supplementary search technique, or studies focussing on citation tracking as a means to explore network or citation impact (i.e. bibliometric analysis). Additionally, we will exclude methodological guidelines only mentioning or recommending citation tracking without describing or assessing it. Furthermore, we will exclude editorials, commentaries, letters and abstract-only publications. Table 1 illustrates our inclusion and exclusion criteria per domain.

Information sources. We will search MEDLINE via Ovid, CINAHL (Cumulative Index to Nursing and Allied Health Literature), LLISFT (Library Literature & Information Science

Table 1. Inclusion and exclusion criteria.

<table>
<thead>
<tr>
<th>Domain</th>
<th>Inclusion criteria</th>
<th>Exclusion criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study focus</td>
<td>Any study with a focus on citation tracking as an evidence retrieval method AND one of the following criteria: - any study assessing benefits/problems and/or effectiveness of citation tracking - any study comparing different methods of citation tracking (e.g. backward vs. forward, direct vs. indirect) - any study assessing technical uses of citation tracking (e.g. comparing platforms and/or tools, e.g. Scopus vs. WoS, Oyster, Voyster, etc.)</td>
<td>Any study solely using citation tracking for evidence retrieval (e.g. a systematic review applying citation tracking as supplementary search technique) OR any study solely assessing benefits and/or use and/or effectiveness of citation tracking to explore a network or citation impact (i.e. bibliometric analysis) OR any study describing solely the method of citation tracking without further describing or assessing it (focus citation tracking, search methods, systematic reviews or other types of reviews), e.g. guidelines for developing search strategies or guidelines for systematic or other reviews</td>
</tr>
<tr>
<td>Research context</td>
<td>Health-related or not specified</td>
<td>Other research contexts</td>
</tr>
<tr>
<td>Language</td>
<td>All languages</td>
<td>-</td>
</tr>
<tr>
<td>Publication year</td>
<td>All publication years</td>
<td>-</td>
</tr>
<tr>
<td>Publication type</td>
<td>Any</td>
<td>Editorials, Commentaries, Letters, Abstract-only publications</td>
</tr>
</tbody>
</table>
After an initial calibration, we will pilot a standardised data extraction process. One author (JH) will narratively discuss it with HE. Additionally, we will perform free web searching via Google Scholar as well as direct forward and backward citation tracking of included studies. For citation tracking, we will use Scopus, as this database seems to cover the largest number of relevant citations for the purpose of our review. We will also contact librarians in the field of health sciences and information specialists through several mailing lists (e.g. Netzwerk Fachbibliotheken Gesundheit, Canadian Medical Libraries, Expertsearching, MEDBIB-L/German-speaking medical librarians, and EAHIL-list) to ask for further studies.

**Search strategy.** Due to a lack of adequate index terms, our search strategy will be based on textwords only. To determine frequently occurring terms for inclusion into the search strategy, we analysed keywords in the titles and abstracts of potentially relevant publications retrieved from preliminary searches and similar articles identified via PubMed by using a text mining approach. We restricted parts of our textwords to the title field in order to avoid retrieving systematic reviews using citation tracking.

All authors contributed to the development of search strategies. HE and CAH are information specialists with a professional background in research; JH and TN are researchers experienced in the development of search strategies. HE drafted the search strategy. To uncover potential flaws, JH peer-checked the drafted search strategy and discussed it with HE.

Box 1 shows the final search strategy for MEDLINE in Ovid syntax. To use the strategy in other databases, we will translate it by means of Polyglot Search Translator. CAH will conduct the searches and eliminate duplicates using the Bramer method. We will perform free web searching in Google Scholar using textsearch terms from our database search.

**Box 1. Search strategy for MEDLINE via Ovid**

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(reference list OR reference lists OR (reference OR references OR citation OR citations OR co-citation OR co-citations) ADJ3 (search OR searches OR searching OR searched OR screen OR screening OR chain OR chains OR chaining OR check OR checking OR checked OR chased OR chasing OR tracking OR tracked OR harvesting OR tool OR tools OR backward OR forward) OR ((cited OR citing OR cocited OR cociting OR co-cited OR co-citing) ADJ3 (references OR reference)) OR citation discovery tool OR cocitation OR co-citation OR cocitations OR co-cited OR backward chaining OR forward chaining OR snowball sampling OR snowballing OR footnote chasing OR berry picking OR cross references OR cross referencing OR cross-references OR cross-referencing OR citation activity OR citation activities OR citation analysis OR citation analyses OR citation network OR citation networks OR citation relationship OR citation relationships).ti OR (((strategy OR strategies OR method* OR literature OR evidence OR additional OR additional OR complementary OR supplementary) ADJ3 (find OR finding OR search* OR retrieve*) OR (database ADJ2 combin*).ti) AND ((search OR searches OR searching OR searched).ab)))
```

**Data management.** A bibliography management tool (e.g. Citavi, EndNote) will be used to manage the number of reference retrievals throughout the study selection process. Furthermore, we will use specific tools for study selection that we describe below.

**Selection of sources of evidence.** After an initial calibration phase (TN, JH, HE), two authors (JH, TN) will independently screen titles, abstracts, and full texts using Rayyan. They will solve disagreements by third author arbitration (HE). To screen the results of the citation tracking step, we will consider ASReview, particularly if the number of references exceeds 1000. ASReview combines machine (deep) learning models on a set of eligible studies with active learning on manual selections during title-abstract screening to generate a relevancy-ranked abstract list and to save screening time. Should the tool prove to be beneficial for reducing the screening load, we will consider conducting a more sensitive database search at a later stage and screen additional results with ASReview.

**Data charting process.** We will pilot a standardised data extraction sheet approved by consensus among the authors. We will extract bibliographic and geographic data, design- and study-specific data as well as results. We aim for an iterative data extraction process, but in the final publication, we will provide a detailed overview of extracted data items. The first author (JH) will extract data and the second author (TN) will peer-check the extraction. We will solve disagreements by third author arbitration (HE).

**Synthesis of results.** One author (JH) will narratively summarise study characteristics and results based on the data extraction. Depending on the results, we will also chart them graphically.

**Expert survey**

**Setting.** The results of the scoping review will inform our online expert survey (see below). We intend to collect data from international experts in the field of literature retrieval methods. To design and develop the survey, we will use SosciSurvey. The survey language will be English.

**Recruitment.** Recruitment will be based on a triple approach. First, we will contact authors of pertinent articles identified during the literature search as well as experts from our professional networks. This “person-based” approach will help us to identify experts who authored papers, books, comments, and reviews in the field of citation tracking. We will ask the contacted persons to take part in the survey and to forward the invitation. Second, we will identify and contact relevant national and international networks as well as systematic review collaborations using institutional contacts (e.g. Cochrane, Joanna Briggs Institute, Campbell Collaboration, Institute of Medicine, expert information specialists, and Evidence Synthesis International). We will also use mailing lists (e.g. Netzwerk Fachbibliotheken Gesundheit, Canadian Medical Libraries, Expertsearching, MEDBIB-L/German-speaking medical librarians, and EAHIL-list). This “network-based approach” will
allow us to reach experts in the field of literature retrieval methods who are potentially using citation tracking without necessarily being the authors of methodological studies (yet). Third, we will announce the expert survey on our project page on ResearchGate, aiming to recruit further experts missed by our person- and network-based approaches. By using this triple approach, we intend to recruit between 60 and 150 participants. The authors of this study will not participate in the survey.

**Data collection.** We will iteratively develop the survey questions during the scoping review process based on our findings. Broadly speaking, our survey will contain questions on the use of citation tracking, preferred taxonomy, experiences with citation tracking, as well as recommendations for future practice and research. We will collect participants’ sociodemographic data, e.g. professional education and background, current field of work, years of experience in literature searching and citation tracking. We will schedule approximately five weeks for participation. Table 2 illustrates our reminder strategy to reach as many experts as possible.

**Data analysis.** To analyse the survey data, we will apply descriptive statistics based on frequencies, percentages, and cross tables. We will thematically categorise free text answers.

**Ethical concerns.** The online expert survey will contain introductory information on our aims, the survey itself, data management and security. Since we do not expect vulnerability on the part of participants, we will not apply for ethical approval of the expert survey. Taking part in the survey will indicate consent to participate.

**Dissemination of results**

Our dissemination strategy uses multiple ways to share our study results with academic stakeholders. The final review and expert survey will be published in an international open access journal relevant in the field of information retrieval. Additionally, we will discuss our results with experts at national and international conferences (e.g. conference of the German Network for Evidence-based Medicine (EbM-Netzwerk), conference of the European Association for Health Information and Libraries (EAHIL). To inform about our study results and publications, we will use Twitter, ResearchGate, and mailing lists from relevant stakeholders such as Netzwerk Fachbibliotheken Gesundheit, Canadian Medical Libraries, Expertsearching, MEDBIB-L/German-speaking medical librarians, and EAHIL-list.

**Study status**

We intend to start our search in November 2020 and expect to complete the study in April 2022.

**Current study status:** preliminary searches: yes; piloting of the study selection process: yes; formal screening of search results against eligibility criteria: no; data extraction: no; data analysis: no.

**Conclusions**

Depending on the available study landscape, missing pertinent evidence might have an impact on the validity of systematic reviews and, consequently, on the quality of clinical care. Therefore, authors of systematic reviews should conduct high quality literature searches aiming to detect all relevant evidence. Citation tracking may be a good way to complement electronic database searches and to broaden the scope of possible findings. Therefore, our study intends to provide literature- and expert-based recommendations on the use of citation tracking for systematic literature searching. Specifically, we will provide guidance on; (i) situations in which citation tracking is likely to be particularly effective, (ii) situations in which a particular method of citation tracking is specifically indicated, and on (iii) technical/methodological aspects and pitfalls. We will also point out (iv) areas requiring more research in order to provide recommendations. It is possible that the recommendations developed during this project in a health-related context may prove relevant also for other academic fields such as social or environmental sciences. Finally, tailored and evidence-based recommendations concerning the use of citation tracking for systematic literature searching may guide future steps in semi-automated and automated literature retrieval methods.

### Table 2. Reminder strategy of the online survey.

<table>
<thead>
<tr>
<th>Process and time</th>
<th>Person-based approach</th>
<th>Network-based approach</th>
<th>Announcement on ResearchGate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Survey setup</td>
<td>Invitation</td>
<td>Invitation</td>
<td>Invitation</td>
</tr>
<tr>
<td>Two weeks after</td>
<td>Reminder</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Four weeks after</td>
<td>Reminder</td>
<td>Reminder</td>
<td>Update</td>
</tr>
<tr>
<td>Survey closing</td>
<td>-</td>
<td>-</td>
<td>Closing information</td>
</tr>
</tbody>
</table>

Note: Person-based approach: contacting national and international networks and systematic review collaborations using mailing lists.
Data availability

Underlying data
No underlying data are associated with this article.

Reporting guidelines


Data are available under the terms of the Creative Commons Zero “No rights reserved” data waiver (CCO 1.0 Public domain dedication).

References


18. Lefebvre C, Glaville J, Briscoe S, et al.: ‘Using citation tracking for systematic literature searching: study protocol for a scoping review of methodological studies and an expert survey’, https://doi.org/10.17605/OSF.IO/7ETYD. Data are available under the terms of the Creative Commons Zero “No rights reserved” data waiver (CCO 1.0 Public domain dedication).


36. Cooper C, Garside R, Varley-Campbell J, et al.: “It has no meaning to me”. How do researchers understand the effectiveness of literature searches?

Publisher Full Text


Reference Source


Open Peer Review

Current Peer Review Status: ?

Version 1

Reviewer Report 07 April 2021

https://doi.org/10.5256/f1000research.30208.r81307

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David Moher

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2 Centre for Journalology, Ottawa Hospital Research Institute, Ottawa, Canada

The authors are proposing a new guidance on citation tracking. They will achieve this by completing a scoping review and subsequently a survey. The authors propose using appropriate methods (and reporting) for conducting the scoping review. I found the methods for the survey less clear and hope my comments/questions, below, are helpful in revised the protocol.

Questions/comments:


2. For example, item 5 of PRISMA-S – Citation searching - states “Citation searching 5 Indicate whether cited references or citing references were examined, and describe any methods used for locating cited/citing references (e.g., browsing reference lists, using a citation index, setting up email alerts for references citing included studies).” I think this is important so as not to potentially confuse readers. Indeed, should the current initiative be seen as an implementation of PRISMA-S?

3. I had more difficulty understanding the proposed survey. For me, much of the methods were missing. I understand the recruitment (well reported). I would recommend the authors include the PRISMA-S group unless there is a lot of overlap between PRISMA-S and the other groups mentioned.

4. It was not clear to me how long the authors will make completing the survey– 15 minutes of 45 minutes? Similarly, will the respondents receive an incentive for completing the survey?

5. Why ‘simply’ a survey rather than a Delphi (or modified) approach? Will the survey (or...
Delphi) be pilot tested for question and response option clarity and language?

6. The data analysis describes cross tables. I assume the authors mean cross tabulations which can be more than descriptive. Will the authors be conducting Chi-square analysis or other analytical approaches of the cross tabulations (e.g., p values)?

7. The ethical concerns section is likely jurisdiction specific. In my setting ethics would be required. Can the authors explicitly indicate whether ethics is required or not. The section is currently vague on this critical issue.

8. For the survey, do the authors have an estimated sample size they are aiming for. Similarly, do the authors have an estimated response rate they are aiming for?

References

Is the rationale for, and objectives of, the study clearly described?
Yes

Is the study design appropriate for the research question?
Yes

Are sufficient details of the methods provided to allow replication by others?
Partly

Are the datasets clearly presented in a useable and accessible format?
Partly

Competing Interests: No competing interests were disclosed.

Reviewer Expertise: Systematic reviews; open science; reporting guidelines.

I confirm that I have read this submission and believe that I have an appropriate level of expertise to confirm that it is of an acceptable scientific standard, however I have significant reservations, as outlined above.
The authors propose to conduct a scoping review of the use of citation tracking techniques to
determine evidence to inform systematic reviews and also to survey experts on their use of
citation tracking.

My suggestions for action on the proposal are as follows:
1. Introduction: 'These references are usually eligible for inclusion into the review and known
at the start of the citation search\textsuperscript{10–12}. I think this could be reworded for clarity along the
following lines:
'These references are usually eligible for inclusion into the review and some may be known
at the beginning of the review and others may emerge as eligible records following the
main database searches\textsuperscript{10–12}.'
Then perhaps you may not need the sentence that follows the one I am commenting on.

2. Introduction: 'The taxonomy used to describe the...'. I think it might be better to use a word
such as 'terminology' rather than 'taxonomy'.

3. Figure 1. The figure would be more helpful if it could show the relationships of the indirect
citation tracking in the Figure 1b perhaps by colour coding. Please check diagrams in the
following references which incorporate chronology into the citation picture as well as
showing the indirect citation tracking clearly.
Belter CW. A relevance ranking method for citation-based search results. Scientometrics.
2017;112(2):731-46.\textsuperscript{1}
Janssens A, Gwinn M, Brockman JE, Powell K, Goodman M. Novel citation-based search

4. Introduction: 'However, recent guidance suggests that combining several citation tracking
methods (e.g. screening cited, citing, co-cited and co-citing references) may be the most
effective way to use citation tracking for systematic reviewing.' Please cite the guidance.

5. Introduction: 'It rather depends on a variety of factors. For instance, citation tracking may
be especially beneficial in case of (i) complex searches (e.g. for reviews on public health
topics), (ii) searching for health outcome measurement instruments, or (iii) research areas
without consistent taxonomy, with vocabulary overlaps with other fields, or with a lack of
index terms in databases (e.g. methodological topics). These are all important issues and
each deserves a bit more description so that readers can understand the differences. Again
I think the word 'taxonomy' should be replaced with 'terminology'.

6. Introduction: current 'topical reviews' - suggest replacing with 'recent reviews on this topic'.
Then please add in more citations so that 'reviews' can be supported with more than one
reference.

7. Introduction: 'health-related systematic literature searching'. This occurs three times and
for each occurrence I suggest rewording as follows for clarity: 'literature searching for
systematic reviews of health and health-related topics'.
8. Eligibility criteria. 'evidence retrieval method'. Suggest that 'method' is not needed as the sentence has 'means'.

9. 'Eligible studies need to have a health-related context. Studies without an explicitly specified research context are also eligible.' This seems contradictory. Why are studies in education topics for example not useful if they are looking at the methods rather than the topic? Just including papers where the topic is not clear seems arbitrary when there may be much to learn from a paper even if it has an engineering topic, say. Perhaps reword along the lines of 'although studies undertaken in the context of health-related topics are the main focus, studies of citation tracking in other literatures will also be eligible where the focus is on exploring the methods rather than the subject topic'.

10. Table 1. Publication Type cannot be 'Any' when there are publication types listed as ineligible. The authors should list eligible study types or use some sort of exception wording.

11. Information sources. I am not sure 'free web searching via Google Scholar' is a helpful description, perhaps just say 'searches of Google Scholar' here and further down where it is mentioned again.

12. 'For citation tracking, we will use Scopus, as this database seems to cover the largest number of relevant citations for the purpose of our review'. There is quite a lot of research that reports that other resources such as Google Scholar or Microsoft Academic provide wider coverage - the authors may wish to consider searching some of the free resources as well (since Scopus alone is not going to find the largest number of results) or finding other reasons for the use of a Scopus only approach.

13. 'MEDBIB-L' - I think there may be a typo here and it is MEDLIB-L? I think it may also need to be corrected in the Dissemination section.

14. My understanding of the purpose of a protocol is that it should list what will happen and therefore the resources to be searched should be listed and there should be no examples which imply that other things may be added. So there should be no 'e.g.'.

15. 'text mining approach' - the chapter describes many approaches - which one was used in this case?

16. 'parts of our textwords' - suggest 'some of our textwords'?

17. Box 1 - there is harmless redundancy in the search. For example co-citation is searched alone and in combination with other terms - it only needs to be searched alone.

18. Box 1 - with the focus on searching in the titles, the use of such close adjacency does not seem warranted - it would be more sensitive to use AND for title searching.

19. Box 1 - it might be helpful in the absence of subject headings and the focus on searching mainly in titles to also search the author keywords field.
20. Data charting process: I realise it is difficult to know what will happen but the authors
description is not very clear about their plans 'We aim for an iterative data extraction
process, but in the final publication, we will provide a detailed overview of extracted data
items.' What is an 'iterative data extraction process' - what might it look like and what does
it involve?

21. Data collection 'preferred taxonomy' - again, I suggest the word you mean is 'terminology'
not 'taxonomy'.

22. **Data analysis.** 'To analyse the survey data, we will apply descriptive statistics based on
frequencies, percentages, and cross tables.' I think it may be 'cross tabulations' rather than
'cross tables'?

23. Dissemination of results - it might be useful to also to try to present results at conferences
of systematic review experts - Cochrane Colloquium and the Health Technology Assessment
International (HTAi) conferences. These organisations also have active information retrieval
special interest groups.

24. Conclusions: 'Depending on the available study landscape' - this seems rather vague to me -
it would help the reader if the authors could be more explicit about what they mean.

25. 'consequently, on the quality of clinical care' - I think it might not only be clinical care that
could be impacted - it might be any aspect of health care depending on what is being
reviewed e.g. a service, a policy, a new method of organising staff etc.

26. 'in a health-related context may prove relevant also for other academic fields such as social
or environmental sciences' - I think that much of what you find may be generalisable to
other disciplines, so I suggest that you state this earlier as a possibility.

**References**
   (2): 731-746 [Publisher Full Text]
scientific literature: a validation study. *BMC Medical Research Methodology*. 2020; **20** (1). [Publisher Full Text]

Is the rationale for, and objectives of, the study clearly described?
Yes

Is the study design appropriate for the research question?
Yes

Are sufficient details of the methods provided to allow replication by others?
Partly

Are the datasets clearly presented in a useable and accessible format?
Not applicable

**Competing Interests:** I conduct training courses in information retrieval for the purpose of systematic reviews and these include courses in citation tracking/citation searches.

**Reviewer Expertise:** Information retrieval for evidence identification for systematic reviews.

I confirm that I have read this submission and believe that I have an appropriate level of expertise to confirm that it is of an acceptable scientific standard, however I have significant reservations, as outlined above.

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