International Journal of Technology Assessment in Health Care

cambridge.org/thc

Method

Cite this article: Lefebvre C, Duffy S (2021). Peer review of searches for studies for health technology assessments, systematic reviews, and other evidence syntheses. *International Journal of Technology Assessment in Health Care* **37**, e64, 1–5. https://doi.org/10.1017/ S0266462321000210

Received: 1 April 2020 Revised: 17 February 2021 Accepted: 5 March 2021

Key words:

Databases as topic; Information storage and retrieval; Peer review; Systematic reviews as topic; Technology assessment, biomedical

Author for correspondence: Carol Lefebvre, E-mail: carol@lefebvreassociates.org

© The Author(s), 2021. Published by Cambridge University Press



Peer review of searches for studies for health technology assessments, systematic reviews, and other evidence syntheses

Carol Lefebvre¹ () and Steven Duffy² ()

¹Lefebvre Associates Ltd, Oxford, UK and ²Kleijnen Systematic Reviews Ltd, Unit 6, Escrick Business Park, Riccall Road, Escrick, York YO19 6FD, UK

Abstract

Introduction. Peer review of searches is a process whereby both the search strategies and the search process description are reviewed, ideally using an evidence-based checklist.

Rationale. As the search strategy underpins any well-conducted evidence synthesis, its quality could affect the final result. Evidence shows, however, that search strategies are prone to error. **Findings.** There is increasing awareness and use of the PRESS Evidence-Based Checklist and peer review of search strategies, at the outset of evidence syntheses, prior to the searches being run, and this is now recommended by a number of evidence synthesis organizations.

Recommendations and conclusions. Searches for evidence syntheses should be peer reviewed by a suitably qualified and experienced librarian or information specialist after being designed, ideally, by another suitably qualified and experienced librarian or information specialist. Peer review of searches should take place at two important stages in the evidence synthesis process; at the outset of the project prior to the searches being run and at the prepublication stage. There is little empirical evidence, however, to support the effectiveness of peer review of searches. Further research is required to assess this. Those wishing to stay up to date with the latest developments in information retrieval, including peer review of searches, should consult the SuRe Info resource (http://www.sure-info.org), which seeks to help information specialists and others by providing easy access to the findings from current information retrieval methods research and thus support more research-based information retrieval practice.

Introduction

Peer review of searches, within the evidence synthesis context, is a process where a review of the searches for studies for a health technology assessment (HTA), systematic review, or other evidence synthesis is undertaken by a suitably qualified and experienced librarian or information specialist after being designed, ideally, by another suitably qualified and experienced librarian or information specialist (1;2). Peer review of searches takes place at two important stages in the evidence synthesis process; firstly, at the outset of the evidence synthesis prior to the searches being run and secondly at the prepublication stage together with peer review of the remainder of the manuscript or report. Peer review of searches, particularly prior to the searches being run, is increasingly being recognized as a necessary step in designing and executing high-quality searches to identify studies for possible inclusion in evidence syntheses. Peer review of searches encompasses not only the review of the search strategies themselves but also the review of the search process description or narrative. The focus to date of the various initiatives described below has largely been on peer review of search strategies, but there is increasing recognition of the importance of peer review of the search process description or narrative. This is especially important for complex searches, where the search description or narrative is even more necessary to explain the nuances of these complex searches than it might be for less complex searches.

Rationale for Peer Review of Searches at the Outset of Evidence Syntheses

As noted above, peer review of searches should be undertaken prior to the searches being run. The aim of peer review at this stage of the evidence synthesis is to detect and remedy any errors or omissions prior to the study selection phase, in order to reduce not only the risk of missing relevant studies but also the risk of identifying unnecessarily large numbers of irrelevant records.

Searches, however, are not always conducted or reported to a high standard (3;4). As the search strategy is the cornerstone underpinning any well-conducted evidence synthesis, its quality could affect the results of the final analysis. A study published in 2006 by Sampson and McGowan (5) found that errors in search strategies were common, the principal mistakes being spelling errors, missed spelling variants, truncation errors, logical operator errors, use of

wrong line numbers, missed or incorrect use of medical subject heading index terms (e.g., MeSH), and the search strategy not being tailored for use in other databases. A more recent study published in 2018 by Franco et al. (6) assessed a random sample of seventy Cochrane systematic reviews of interventions published in 2015, evaluating the design and reporting of their search strategies using the recommendations from the then current Cochrane Handbook for Systematic Reviews of Interventions (2011 version) (7), the then current Methodological Expectations of Cochrane Intervention Reviews [MECIR] standards (2013 version) (8), the then current version of the Peer Review of Electronic Search Strategies (PRESS) evidence-based guideline (2009 version) (9), and the then current PRESS Evidence-Based Checklist (2010 version) (10). They found problems in the design of the search strategies in 73 percent of the reviews (95% CI, 60-84%) and 53 percent of these contained problems (95% CI, 38-69%) that could limit both the sensitivity and precision of the search strategies. More recently, a study published in 2019 by Salvador-Olivan et al. (11) found that 92.7 percent of their sample of 137 included systematic reviews, published in January 2018, contained some type of error in the MEDLINE/PubMed search strategy and that 78.1 percent of these errors affected recall/sensitivity.

It must be recognized, however, that not all librarians and information specialists are based in teams and so may be unable to call upon colleagues to peer review their searches. Under such circumstances, the use of the PRESSforum Peer Review (https:// pressforumpr.wordpress.com/) is recommended. This forum has been established to enable librarians and information specialists to submit their searches for peer review by a fellow librarian or information specialist, on a reciprocal basis.

Rationale for Peer Review of Searches Immediately Prior to Publication

As outlined above, peer review of searches should be undertaken prior to the searches being run. While this is increasingly being recognized as best practice, it is certainly not yet universal. There remains, therefore, an important role for peer review of searches immediately prior to publication, in common with standard peer review practice within the scientific community.

Peer review of searches immediately prior to publication, however, is rarely undertaken by suitably qualified and experienced librarians or information specialists. A recent survey of librarians and information specialists by Grossetta Nardini et al. (12) found that they are rarely approached to participate in the peer review of systematic reviews or their search strategies at the prepublication stage (see below). The recent launch of the Librarian Peer Reviewer Database (https://sites.google.com/view/mlprdatabase/ home/about-this-site), which serves to connect librarians who have expertise in searching for evidence syntheses with journal editors who need peer reviewers with expertise in this area, should go some way toward remedying this situation.

In April 2020, four of the major international library associations (the Canadian Health Libraries Association (CHLA/ABSC), the European Association for Health Information and Libraries (EAHIL), Health Libraries Australia (HLA-ALIA), and the U.S. Medical Library Association (MLA)) submitted a joint letter to the International Committee of Medical Journal Editors (ICMJE) urging journal editors to actively seek information specialists as peer reviewers for knowledge synthesis publications and to advocate for the recognition of their methodological expertise (13).

Which Organizations Advocate Peer Review of Searches?

In the recently revised chapter entitled Searching for and selecting studies in the Cochrane Handbook for Systematic Reviews of Interventions (1), it is strongly recommended that search strategies be peer reviewed. An evidence-based checklist such as the PRESS Evidence-Based Checklist should be used to assess which elements are important in peer review of electronic search strategies (14;15). It is not only that the checklist covers the technical accuracy of the strategy (line numbers, spellings, etc.) but also that the search strategy covers all relevant aspects of the research question and has interpreted the question appropriately. The names, credentials, and institutions of the peer reviewers of the search strategies should be noted in the review (with their permission) in the Acknowledgments section. This builds on Cochrane's experience in publishing systematic reviews of diagnostic accuracy studies, where peer review of the searches has been mandatory since inception at both the outset of the review and at the prepublication stage (16). The Cochrane Information Specialists' Executive is actively encouraging a culture of peer review of searches for Cochrane intervention and other reviews, by Cochrane Information Specialists, at the outset of the review and has carried out a pilot project in this area (17). It should also be noted that, under Cochrane's new membership scheme, membership points are awarded for peer reviewing search strategies (https://www.cochrane.org/join-cochrane/contribution-typesand-membership-points).

The Centre for Reviews and Dissemination in the U.K., in its guidance entitled *Systematic reviews: CRD's guidance for undertaking reviews in healthcare* in the section entitled *Appendix 2: example search strategy to identify studies from electronic databases*, states: "If at all possible, the final search strategy should be peer reviewed to check for errors (spelling mistakes, incorrect use of operators or failure to include relevant MeSH) that could reduce the recall of papers" (18).

The European Network for Health Technology Assessment (EUnetHTA), in its guidance entitled *Process of information retrieval for systematic reviews and health technology assessments on clinical effectiveness. Methodological Guidelines,* in the section entitled *Summary and table with main recommendations,* states that "search strategies should undergo peer reviewing to ensure high-quality search strategies" (19). They add in the section entitled *Chapter 3: Comprehensive information retrieval. 3.1.6. Peer reviewing search strategies:* "The peer review process using the [PRESS] checklist should be completed before the search strategy is run."

The Institute of Medicine in the U.S., in its guidance entitled *Finding what works in healthcare: standards for systematic reviews* in the section entitled *Recommended standards for the search process*, states, "Use an independent Librarian or other Information Specialist to peer review the search strategy" and in the section entitled *Planning the search: ensuring an accurate search*, states: "The peer reviewer should be independent from the review team in order to provide an unbiased and scientifically rigorous review and should have expertise in information retrieval and systematic reviews. In addition, the peer review process should take place prior to the search process, rather than in conjunction with the peer review of the final report, because the search process will provide the data that are synthesized and analyzed in the systematic review" (20).

The Institute for Quality and Efficiency in Health Care (IQWiG) in Germany, in its guidance entitled *IQWiG General Methods* in the section entitled *Quality assurance of search*

strategies, states: "Quality assurance with the PRESS checklist is initially a formal evaluation and is always performed before the conduct of searches" (21).

The National Institute of Health and Care Excellence (NICE) in the U.K., in its manual entitled *Developing NICE guidelines: the manual. Process and methods* in the section entitled *Quality assurance*, states: "For each search (including economic searches), the principal database search strategy should be quality assured by a second Information Specialist to maintain a consistently high standard for identifying the evidence. A checklist should be used to ensure clarity and consistency when quality assuring search strategies. An example is the PRESS 2015 Guideline Evidence-Based Checklist (15). Each time the principal database strategy is adapted for use in another database, it is good practice for it to be peer reviewed by a second Information Specialist to ensure quality and consistency is maintained" (22).

The Preferred Reporting Items for Systematic reviews and Meta-Analyses—Extension for Searches (PRISMA-S Extension), in the section entitled Peer review, states, "Describe any search peer review process," and in the Explanation section of that same section, states: "Authors should consider using Peer Review of Electronic Search Strategies (PRESS) Guideline statement, a practice guideline for literature search peer review outlining the major components important to review and the benefits of peer reviewing searches (15). Authors should strongly consider having the search strategy peer reviewed by an experienced searcher, Information Specialist or Librarian" (23).

The PRISMA 2020 statement, in Box 2 Noteworthy changes to the PRISMA 2009 statement, states: "Modification of the 'Search' item to recommend authors present full search strategies for all databases, registers and websites searched, not just at least one database (see item #7)." This will facilitate more comprehensive peer reviewing of the search process at the prepublication stage. The PRISMA 2020 Explanation and Elaboration document, in the section entitled Search strategy Item 7. Present the full search strategies for all databases, registers, and websites, including any filters and limits used, states: "Explanation: Reporting the full details of all search strategies (such as the full, line by line search strategy as run in each database) should enhance the transparency of the systematic review, improve replicability, and enable a review to be more easily updated. The description of the search strategy development process might include details of ... any processes used to validate or peer review the search strategies. Empirical evidence suggests that peer review of search strategies is associated with improvements to search strategies, leading to retrieval of additional relevant records (31). Further guidance and examples of reporting search strategies can be found in PRISMA-Search" (23).

Finally, the U.S. Agency for Healthcare Research and Quality (AHRQ) in its *Methods Guide for Effectiveness and Comparative Effectiveness Reviews*, recommends peer review of searches for the updating of evidence syntheses. In the section of its guidance entitled *General search strategies for updating CERs* (Comparative Effectiveness Reviews), it states, "Investigators should also use the opportunity to review the search strategy and modify search terms, databases and other sources searched, if necessary, and have it peer-reviewed, if not previously done" (26).

How to Keep Up to Date with the Evidence Around Peer Review of Searches

The web resource Summarized Research in Information Retrieval for HTA (SuRe Info) (27) provides research-based information relating to the information retrieval aspects of producing HTAs and systematic reviews (28). SuRe Info seeks to help information specialists stay up to date with the latest developments in information retrieval by providing easy access to current methods research and thus support more research-based information retrieval practice. In the *General search methods* section of the Web Site, there is a chapter entitled: *Peer reviewing search strategies* (2).

Since January 2013, searches have been conducted to identify research about the peer review of search strategies in HTAs and systematic reviews in order to populate this chapter (see Supplementary Table 1). The search strategies combine relevant search terms comprising indexed keywords (e.g., Medical Subject Headings [MeSH]) and free text terms appearing in the titles and/or abstracts of bibliographic database records. Search terms were identified through discussion with the SuRe Info project team, by scanning background literature and "key articles" already known to the project team and by browsing database thesauri. The search strategies were structured using search terms for "peer review" in combination with search terms for "literature searching." Search strategies were developed specifically for each database and the keywords adapted according to the configuration of each database. Searches were not limited by language, publication status (e.g., unpublished or published), or date of publication. The searches are updated on a 6-monthly basis, conducted every March and October.

The following databases are searched:

- MEDLINE; MEDLINE In-Process Citations, Medline Daily Update, and Epub Ahead of Print (Ovid interface)
- PubMed (NLM interface)
- Embase (Ovid interface)

In addition, citation searches of prominent search strategy peer review research articles are undertaken alongside the biannual update searches. Separate key author searches are also conducted. The citation and author searches are conducted in Google Scholar, Science Citation Index (SCI), and PubMed.

Full details of the search strategies and citation searches are provided in Supplementary Table 1. References identified from the searches are downloaded into EndNote bibliographic management software for further assessment, removal of duplicates and screening. Search results are screened for potentially relevant articles that fulfil the SuRe Info inclusion and exclusion criteria (see Table 1) as published in the SuRe Info: authors' manual (29) and consensus is reached between the SuRe Info peer review chapter authors (CL and SD).

What Does the Current Evidence Tell Us About Peer Review of Searches?

The Agency for Healthcare Research and Quality (AHRQ) conducted a study in 2012 assessing a project they had undertaken on the peer review of search strategies and found that it "seems to cut down the time needed to do the review, increase response, and do a better job of identifying actual errors in search strategies" (30). The time burden of the review process including peer review of search strategies was less than 2 hours.

In 2018, CADTH (31) conducted an internal investigation to see whether peer review of search strategies affected the number and quality of articles included in CADTH Rapid Response reports and found that both the number and quality of relevant articles retrieved were improved. The results of pre-peer-reviewed searches from a sample of 200 rapid reviews were compared with Table 1. SuRe info project team. SuRe info: authors' manual: HTAi, 2017: inclusion and exclusion criteria

Within chapters, research publications that fulfil the following criteria should be included in SuRe Info:	
1.	The research question is relevant to information retrieval for HTA and the SuRe Info chapter in which it is to be included.
2.	The publication provides latest evidence on a specific methodological issue.
3.	The publication includes research findings of a completed scientific study (including reviews, evidence syntheses, and theses).
4.	The publication describes the scientific methods used in the study.
5.	The research findings are still valid, that is have not been overtaken by technological or database changes.
6.	The conclusions are supported by the presented results and the results answer the research question.
7.	The results of the publication are generalizable or usable to other HTA information specialists or transferable to other projects or studies.
Research publications that fall into one of the following criteria will be excluded:	
1.	Duplicate publications, previous publications associated with the same study or project, and letters or comments to the editor will be linked to the related publication.
2.	Individual studies or reviews presented and assessed in other evidence-based collections (such as the ISSG Search Filter Resource), will not be included. A link or a citation to the resource rather than the individual studies will then be provided.

their corresponding post-peer-reviewed search results. The peerreviewed strategies identified additional records in 75 percent of the searches investigated. Of these records, 4 percent were included in the rapid review reports. It should be noted that the search strategies were developed quickly for rapid reviews, and so were not highly sensitive. Had the searches been aiming for higher sensitivity, the differences above may have been more pronounced.

A prospective longitudinal assessment of a continuing education for systematic reviews workshop for librarians published in 2020 by Folb et al. (32) measured various systematic review search practices before and after the workshop. The authors found that, before the workshop, only 9 percent of survey respondents had ever provided peer review for other librarians and 36 percent had sought peer review of their own strategies. At the follow-up stage of the survey, after the continuing education course, they found that 17 percent had provided peer review of other librarians' search strategies and 48 percent had sought peer review of their own strategies.

As noted above, research published in 2019 by Grossetta Nardini et al. (12) investigating librarians as methodological peer reviewers for systematic reviews found that few librarians are being asked to review systematic review manuscripts immediately prior to publication.

Anecdotally, we have noticed increased reporting of both peer reviewing of search strategies and use of the PRESS Evidence-Based Checklist in published systematic reviews and HTAs but without any reporting of evidence of the effectiveness of their usage. Despite the studies referred to above, we have been unable to identify any studies assessing whether the PRESS Evidence-Based Checklist or other formal approaches to peer review affect the final quality of HTAs or systematic reviews.

Conclusions and Recommendations

There appears to be increasing awareness and use of the PRESS Evidence-Based Checklist (15) and peer review of search strategies is now recommended by organizations such as Cochrane, CRD, EUnetHTA, IQWiG, IOM, and NICE in their guidance, and it is also recommended in the PRISMA-S extension—PRISMA Statement for Reporting Literature Searches in Systematic Reviews and in the PRISMA 2020 statement and the accompanying explanation and elaboration document.

Searches for evidence syntheses should be peer reviewed by a suitably qualified and experienced librarian or information specialist after being designed, ideally, by another suitably qualified and experienced librarian or information specialist. Peer review of searches should take place at two important stages in the evidence synthesis process: at the outset of the project prior to the searches being run and at the prepublication stage.

With respect to peer review of searches immediately prior to publication, the recent letter from international library associations to the ICMJE (13) should serve to increase awareness and uptake of peer review of searches immediately prior to publication.

Despite the fact that peer review of searches is increasingly considered to be best practice, there is little empirical evidence to support the overall effectiveness of peer review of search strategies in HTAs or systematic reviews. Further research is required to assess this.

Those wishing to stay up to date with the latest developments in information retrieval, including peer review of searches, should consult the SuRe Info resource (27).

Supplementary material. The supplementary material for this article can be found at https://doi.org/10.1017/S0266462321000210.

Funding statement. This research received no specific grant from any funding agency, commercial, or not-for-profit sector. Steven Duffy's contribution was supported by his employer, Kleijnen Systematic Reviews Ltd.

Conflicts of Interest. Carol Lefebvre (CL) is a coauthor of the SuRe Info chapter on peer review of search strategies. She is the lead author of the Cochrane Handbook for Systematic Reviews of Interventions chapter on searching for and selecting studies, which advocates peer review. She was also a coinvestigator on both the CADTH-funded projects on peer review discussed in this article. She is self-employed and offers training courses in information retrieval for evidence synthesis, including teaching on peer review. Steven Duffy (SD) is a coauthor of the SuRe Info chapter on peer review of search strategies.

References

1. Lefebvre C, Glanville J, Briscoe S, Littlewood A, Marshall C, Metzendorf M-I, et al. Chapter 4: Searching for and selecting studies. 4.4.8 Peer review of search strategies. In: Higgins JPT, Thomas J, Chandler J, Cumpston M, Li T, Page MJ, et al., editors. Cochrane Handbook for Systematic Reviews of Interventions Version 6.2 (updated Feb 2021). Cochrane; 2021 [cited 2021 Mar 26]. Available from: www.training. cochrane.org/handbook.

- Lefebvre C, Duffy S. Peer reviewing search strategies. Summarized Research in Information Retrieval for HTA (SuRe Info). HTAi; 2020 [cited 2020 Dec 14]. Available from: http://vortal.htai.org/index.php? q=node/918.
- Mullins MM, DeLuca JB, Crepaz N, Lyles CM. Reporting quality of search methods in systematic reviews of HIV behavioral interventions (2000-2010): Are the searches clearly explained, systematic and reproducible? *Res Synth Methods*. 2014;5:116–30.
- Layton D. A critical review of search strategies used in recent systematic reviews published in selected prosthodontic and implant-related journals: Are systematic reviews actually systematic? *Int J Prosthodont*. 2017;30:13–21.
- Sampson M, McGowan J. Errors in search strategies were identified by type and frequency. J Clin Epidemiol. 2006;59:1057–63.
- Franco JVA, Garrote VL, Escobar Liquitay CM, Vietto V. Identification of problems in search strategies in Cochrane reviews. *Res Synth Methods*. 2018;9:408–16.
- Lefebvre C, Manheimer E, Glanville J. Chapter 6: Searching for studies. In: Higgins JPT, Green S, editors. Cochrane Handbook for Systematic Reviews of Interventions. Version 5.1.0 (updated March 2011). The Cochrane Collaboration; 2011 [cited 2020 Dec 14]. Available from: https:// training.cochrane.org/cochrane-handbook-systematic-reviews-interventions #previous-versions.
- Chandler J, Churchill R, Higgins J, Lasserson T, Tovey D. Methodological Expectations of Cochrane Intervention Reviews (MECIR). Standards for the conduct and reporting of new Cochrane Intervention Reviews 2013. Version Dec 2013 [cited 2020 Dec 14]. Available from: https://community.cochrane.org/mecir-manual/key-points-and-introduction/ versions-and-changes-mecir.
- Sampson M, McGowan J, Cogo E, Grimshaw J, Moher D, Lefebvre C. An evidence-based practice guideline for the peer review of electronic search strategies. J Clin Epidemiol. 2009;62:944–52.
- McGowan J, Sampson M, Lefebvre C. An evidence based checklist for the Peer Review of Electronic Search Strategies (PRESS EBC). *Evid Based Libr Inf Pract.* 2010;5:149–54.
- 11. Salvador-Olivan JA, Marco-Cuenca G, Arquero-Aviles R. Errors in search strategies used in systematic reviews and their effects on information retrieval. *J Med Libr Assoc.* 2019;107:210–21.
- Grossetta Nardini HK, Batten J, Funaro MC, Garcia-Milian R, Nyhan K, Spak JM, et al. Librarians as methodological peer reviewers for systematic reviews: Results of an online survey. *Res Integr Peer Rev.* 2019;4:23.
- Iverson S, Della Seta M, Lefebvre C, Ritchie M, Traditi L, Baliozian K. International health library associations urge the International Committee of Medical Journal Editors (ICMJE) to seek information specialists as peer reviewers for knowledge synthesis publications. *JEAHIL*. 2020;16:58–61.
- McGowan J, Sampson M, Salzwedel DM, Cogo E, Foerster V, Lefebvre C. PRESS – Peer Review of Electronic Search Strategies: 2015 Guideline Explanation and Elaboration (PRESS E&E). Ottawa: CADTH; 2016 [cited 2020 Dec 14]. Available from: https://www.cadth.ca/sites/default/ files/pdf/CP0015_PRESS_Update_Report_2016.pdf.
- McGowan J, Sampson M, Salzwedel DM, Cogo E, Foerster V, Lefebvre C. PRESS – Peer Review of Electronic Search Strategies: 2015 guideline statement. J Clin Epidemiol. 2016;75:40–6.
- 16. Cochrane Diagnostic Test Accuracy Review Unit. The Cochrane DTA editorial process. V10. Cochrane; 2016 [cited 2020 Dec 14]. Available

from: https://methods.cochrane.org/sdt/sites/methods.cochrane.org.sdt/ files/public/uploads/cochrane_dta_editorial_process.pdf.

- Cochrane Information Specialists Executive. Peer review of search. White Paper. Cochrane Information Specialists Portal; 2019 [cited 2020 Dec 14]. Available from: https://community.cochrane.org/organizational-info/resources/ resources-groups/information-specialists-portal/search-peer-review.
- Centre for Reviews and Dissemination. Systematic reviews: CRD's guidance for undertaking reviews in health care. York: University of York; 2009 [cited 2020 Dec 14]. Available from: https://www.york.ac.uk/crd/ SysRev/!SSL!/WebHelp/SysRev3.htm.
- EUnetHTA JA3WP6B2-2 Authoring Team. Process of information retrieval for systematic reviews and health technology assessments on clinical effectiveness. Methodological guidelines. Diemen, The Netherlands: EUnetHTA; 2019 [cited 2020 Dec 14]. Available from: https://www.eunethta.eu/.
- Institute of Medicine. Finding what works in health care: Standards for systematic reviews. Washington (DC): The National Academies Press; 2011 [cited 2020 Dec 14]. Available from: https://www.nap.edu/catalog/ 13059/finding-what-works-in-health-care-standards-for-systematic-reviews.
- Institute for Quality and Efficiency in Health Care (IQWiG). IQWiG general methods: Version 6.0. Cologne: Institute for Quality and Efficiency in Health Care; 2020 [cited 2021 Mar 28]. Available from: thttps://www.iqwig.de/en/about-us/methods/methods-paper/
- 22 National Institute for Health and Care Excellence (NICE). Chapter 5: Identifying the evidence: Literature searching and evidence submission. In: Developing NICE guidelines: The manual. Process and methods [PMG20]. London: NICE; 2020 [cited 2020 Dec 14]. Available from: https://www.nice.org.uk/process/pmg20/chapter/identifying-the-evidenceliterature-searching-and-evidence-submission.
- Rethlefsen ML, Kirtley S, Waffenschmidt S, Ayala AP, Moher D, Page MJ, et al. PRISMA-S: An extension to the PRISMA statement for reporting literature searches in systematic reviews. *Syst Rev.* 2021;10:39.
- Page MJ, McKenzie JE, Bossuyt PM, Boutron I, Hoffmann TC, Mulrow CD, et al. The PRISMA 2020 statement: an updated guideline for reporting systematic reviews. *BMJ*. 2021;372:n71.
- Page MJ, Moher D, Bossuyt PM, Boutron I, Hoffmann TC, Mulrow CD, et al. PRISMA 2020 explanation and elaboration: updated guidance and exemplars for reporting systematic reviews. *BMJ*. 2021;372:n160.
- Agency for Healthcare Research and Quality (AHRQ). Methods guide for effectiveness and comparative effectiveness reviews. AHRQ publication No. 10(14)-EHC063-EF. Rockville (MD): Agency for Healthcare Research and Quality; 2014 [cited 2020 Dec 14]. Available from: https://effectivehealthcare.ahrq.gov/sites/default/files/pdf/cer-methods-guide_overview.pdf.
- SuRe Info Project Team. Summarized Research in Information Retrieval for HTA (SuRe Info). HTAi [cited 2020 Dec 14]. Available from: http:// www.sure-info.org.
- Isojärvi J, Glanville J. Evidence-based searching for health technology assessment: Keeping up-to-date with SuRe Info. *Int J Technol Assess Health Care*. 2021;37(1):e51. doi: 10.1017/S026646232100009X. PMID: 33840393.
- SuRe Info Project Team. SuRe Info: Authors' manual. Version 1.1. HTAi; 2017 [cited 2020 Dec 14]. Available from: http://www.sure-info.org.
- Relevo R, Paynter R. Peer review of search strategies. In: Methods Research Report. (Prepared by the Oregon Evidence-based Practice Center under Contract No. 290-2007-100572) AHRQ Publication No. 12-EHC068-EF. Rockville (MD): Agency for Healthcare Research and Quality; 2012 [cited 2020 Dec 14]. Available from: https://effectivehealthcare.ahrq.gov/sites/default/files/pdf/search-strategies_research.pdf.
- Spry C, Mierzwinski-Urban M. The impact of the peer review of literature search strategies in support of rapid review reports. *Res Synth Methods*. 2018;9:521–6.
- Folb BL, Klem ML, Youk AO, Dahm JJ, He M, Ketchum AM, et al. Continuing education for systematic reviews: A prospective longitudinal assessment of a workshop for librarians. J Med Libr Assoc. 2020;108:36–46.