**Adapted PRISMA 2020 expanded checklist– search related discussion points for journal club**

*From: 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. doi: 10.1136/bmj.n71*

*Additional items from: Rethlefsen ML, Kirtley S, Waffenschmidt S, Ayala AP, Moher D, Page MJ, Koffel JB; PRISMA-S Group.* ***PRISMA-S: an extension to the PRISMA Statement for Reporting Literature Searches in Systematic Reviews****. Syst Rev. 2021 Jan 26;10(1):39. doi: 10.1186/s13643-020-01542-z. PMID: 33499930; PMCID: PMC7839230.*

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| **Section and Topic**  | **Item #**  | **Elements recommended for reporting**  |
| **TITLE**  |  |  |
| TITLE   | 1  | * Identify the report as a systematic review in the title.
* Report an informative title that provides key information about the main objective or question the review addresses (e.g. the population(s) and intervention(s) the review addresses).
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| **ABSTRACT**  |  |  |
| ABSTRACT  | 2  | • Report an abstract addressing each item in the **PRISMA 2020 for Abstracts checklist.** [NB: Should include an Information Sources section which “Specify the information sources (e.g. databases, registers) used to identify studies and the date when each was last searched.”] |
| **INTRODUCTION**  |  |  |
| OBJECTIVES  | 4  | * Provide an explicit statement of all objective(s) or question(s) the review addresses, expressed in terms of a relevant question formulation framework.
* If the purpose is to evaluate the effects of interventions, use the Population, Intervention, Comparator, Outcome (PICO) framework or one of its variants, to state the comparisons that will be made.
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| **METHODS**  |  |  |
| ELIGIBILITY CRITERIA  | 5  | * Specify all study characteristics used to decide whether a study was eligible for inclusion in the review, that is, components described in the PICO framework or one of its variants, and other characteristics, such as eligible study design(s) and setting(s), and minimum duration of follow-up.
* Specify eligibility criteria with regard to report characteristics, such as year of dissemination, language, and report status (e.g. whether reports, such as unpublished manuscripts and conference abstracts, were eligible for inclusion).
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| INFORMATION SOURCES  | 6  | * Specify the date when each source (e.g. database, register, website, organisation) was last searched or consulted.
* If bibliographic databases were searched, specify for each database its name (e.g. MEDLINE, CINAHL), the interface or platform through which the database was searched (e.g. Ovid, EBSCOhost), and the dates of coverage (where this information is provided).
* **PRISMA-S Multi-database searching** - If databases were searched simultaneously on a single platform, state the name of the platform, listing all of the databases searched.
* If study registers, regulatory databases and other online repositories were searched, specify the name of each source and any date restrictions that were applied.
* If websites, search engines or other online sources were browsed or searched, specify the name and URL of each source.
* If organisations or manufacturers were contacted to identify studies, specify the name of each source.
* If individuals were contacted to identify studies, specify the types of individuals contacted (e.g. authors of studies included in the review or researchers with expertise in the area).
* If reference lists were examined, specify the types of references examined (e.g. references cited in study reports included in the systematic review, or references cited in systematic review reports on the same or similar topic).
* If cited or citing reference searches (also called backward and forward citation searching) were conducted, specify the bibliographic details of the reports to which citation searching was applied, the citation index or platform used (e.g. Web of Science), and the date the citation searching was done.
* If journals or conference proceedings were consulted, specify of the names of each source, the dates covered and how they were searched (e.g. handsearching or browsing online).
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| SEARCH STRATEGY  | 7  | * Provide the full line by line search strategy as run in each database with a sophisticated interface (such as Ovid), or the sequence of terms that were used to search simpler interfaces, such as search engines or websites.
* Describe any limits applied to the search strategy (e.g. date or language) and justify these by linking back to the review’s eligibility criteria.
* If published approaches, including search filters designed to retrieve specific types of records or search strategies from other systematic reviews, were used, cite them. If published approaches were adapted, for example if search filters are amended, note the changes made.
* If natural language processing or text frequency analysis tools were used to identify or refine keywords, synonyms or subject indexing terms to use in the search strategy, specify the tool(s) used.
* If a tool was used to automatically translate search strings for one database to another, specify the tool used.
* If the search strategy was validated, for example by evaluating whether it could identify a set of clearly eligible studies, report the validation process used and specify which studies were included in the validation set.
* If the search strategy was peer reviewed, report the peer review process used and specify any tool used such as the Peer Review of Electronic Search Strategies (PRESS) checklist.
* If the search strategy structure adopted was not based on a PICO-style approach, describe the final conceptual structure and any explorations that were undertaken to achieve it.
* **PRISMA-S Updates -** Report the methods used to update the search(es) (e.g., rerunning searches, email alerts).
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| **RESULTS**  |  |  |
| STUDY SELECTION (flow of studies)  | 16a  | * Report, ideally using a flow diagram, the number of: records identified; records excluded before screening; records screened; records excluded after screening titles or titles and abstracts; reports retrieved for detailed evaluation; potentially eligible reports that were not retrievable; retrieved reports that did not meet inclusion criteria and the primary reasons for exclusion; and the number of studies and reports included in the review. If applicable, also report the number of ongoing studies and associated reports identified.
* If the review is an update of a previous review, report results of the search and selection process for the current review and specify the number of studies included in the previous review.
* If applicable, indicate in the PRISMA flow diagram how many records were excluded by a human and how many by automation tools.
* **PRISMA-S Deduplication -** Describe the processes and any software used to deduplicate records from multiple database searches and other information sources.
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| **DISCUSSION**  |  |  |
| DISCUSSION (limitations of review processes)  | 23c  |  • Discuss any limitations of the review processes used, and comment on the potential impact of each limitation.  |
| **OTHER INFORMATION**  |  |  |
| REGISTRATION AND PROTOCOL (protocol)  | 24b  |  • Indicate where the review protocol can be accessed (e.g. by providing a citation, DOI or link), or state that a protocol was not prepared.  |
| REGISTRATION AND PROTOCOL (amendments)  | 24c  | • Report details of any amendments to information provided at registration or in the protocol, noting: (a) the amendment itself; (b) the reason for the amendment; and (c) the stage of the review process at which the amendment was implemented.  |
| SUPPORT  | 25  | * Describe sources of financial or non-financial support for the review

[NB: If applicable this should “the services of an information specialist to conduct searches”] |

**ADDITIONAL ITEM** Review search strategy for a) comprehensiveness of terms and b) appropriateness of search syntax.