Publishing a Systematic Review

Systematic Review Training

Center for Knowledge Management



Copyright © VUMC Center for Knowledge Management



Objectives: \checkmark *Describe reporting requirements for systematic reviews (PRISMA 2020 statement)*

Selecting a Journal with SPI-Hub®

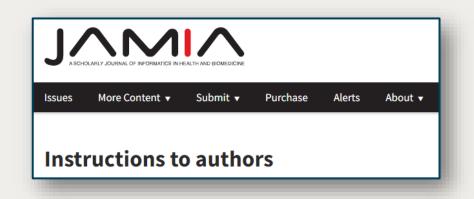


SPI-Hub®: Scholarly Publishing Information Hub [Internet]. Nashville (TN): Center for Knowledge Management [cited 2023 Oct 3]. Available from: https://spi-hub.app.vumc.org/

	V Search Resources Tutorials Contact Us Topic Autor MyCitations		Sele	ecting a jo	ourna	
Run individual searches and se l	ify journals in which to publish your research lect the most representative keywords matching your topic of rese	sarch.				
	free text if no autocomplete match is found. ive keywords and/or free text can be combined.	VANDERBILT 🚺 UNIVERSITY				
	Search by Topic Enter	MEDICAL CENTER	Spl-Hub			
И	NCLUDE RESULTS WEIGHTED WITH IMPACT METRICS (1) Yes • No	Return to Search	•			
	health disparities genetic testing	e	QUERY: Health disparities AND Genetic testing			
			Number of journals retrieved: 50			
	Searching Please wait.		RESULTS 🕕			
				Compare Lip to 5 journals		
		Journal of school health Journal of American college health				
		Journal of child psychology and psychiatry and allied do	plines			
		Journal of applied reserving and percentage and anexe and Journal of applied reserving the intellectual disabilities Journal of achesin nursing Capacer Journal of rural health			-	
VANDERBILT VUNIVERSITY MEDICAL CENTER	O SPI-Hubse	Journal of applied research in intellectual disabilities Journal of schod numing Caucer Journal of rural health	NDERBILT VUNIVERSITY MEDICAL CENTER	O. SPI-Huba and a	VANDERBILT VUNI MEDICAL CENT	
MEDICAL CENTER	O SPI-HUD Scholarly Publication	Journal of applied research in intellectual disabilities Journal of school nursing Caice Journal of rural health	NDERBILT VUNIVERSITY MEDICAL CENTER	Scholarly Publishing Information and Scholarly Publishing Information	MEDICAL CENT	IVERSITY TER CONCEPTION OF THE
MEDICAL CENTER	trics & Indexing Publication Policies Open	Journal of applied research in intellectual disabilities Journal of school nursing Caice Journal of rural health	NDERBILT VUNIVERSITY	Scholarly Publishing Information and Scholarly Publishing Information	MEDICAL CENT	Scroutly Publishing Internet and Annual An
MEDICAL CENTER	trics & Indexing Publication Policies Open	Journal of applied research in intellectual disabilities Journal of school nursing Lever Journal of rural health Access Citations	NDERBILT VUNIVERSITY MEDICAL CENTER me General Information Metrics & I	Scholarly Publishing Information and Scholarly Publishing Information	MEDICAL CENT Home Genera Journal Itile: Citation count:	Journal of genetic counseling 51
MEDICAL CENTER	trics & Indexing Publication Policies Open	Journal of applied research in intellectual disabilities Journal of school nursing Caice Journal of rural health	NDERBILT VUNIVERSITY MEDICAL CENTER me General Information Metrics & I	Scholarly Publishing Information and Scholarly Publishing Information	MEDICAL CENTI Home Genera Journal title:	Journal of genetic counseling 1 1. Exploring experiences and expectations of prenatal health care and genetic counseling/testing in Latinas.
MEDICAL CENTER	trics & Indexing Publication Policies Open	Journal of applied research in intellectual disabilities Journal of school nursing Lever Journal of rural health Access Citations	NDERBILT VUNIVERSITY MEDICAL CENTER ne General Information Metrics & I	Scholarly Publishing Information and Scholarly Publishing Information	MEDICAL CENT Home Genera Journal Itile: Citation count:	Journal of genetic counseling Station Policies Open Access Cit 1 1.schoring experiences and expectations of prenatal health care and genetic counseling/testing in Station
MEDICAL CENTER		Journal of applied research in intellectual disabilities Causer Journal of rural health Access Citations Hot Journal til	NDERBILT VUNIVERSITY MEDICAL CENTER ne General Information Metrics & I	Scholary Publishing by campaking Open Access Citations	MEDICAL CENT Home Genera Journal Itile: Citation count:	Journal of genetic counseling Journal of genetic counseling Journal of genetic counseling S1 Journal of genetic counseling S1 Departing experiences and expectations of prenatal health care and genetic counseling/testing in Latinas. Addt adoptes and their use of direct-to-consumer genetic testing: Searching for family, searchin health, a. Precision Medicine: ramiliarity, Perevised Health Drivers, and Genetic Testing Considerations Acr Uteracy Level is a Diverse Sample.
MEDICAL CENTER Home General Information Met	Journal of genetic counseling	Journal of applied research is intellectual disabilities Journal of school nursing Journal of rural health Access Citations Hou Journal til Journal til Journal til Statement	NDERBILT VUNIVERSITY MEDICAL CENTER me General Information Metrics & I	Scholarly Publication Policies Open Access Citations Journal of genetic counseling	MEDICAL CENT Home Genera Journal Itile: Citation count:	Journal of genetic counseling Journal of genetic counseling Journal of genetic counseling S1 Sploring experiences and expectations of prenstal health care and genetic counseling/testing in takinas Addr adoptes and their use of direct-to-consumer genetic testing: Searching for family, tearchin Meetin, S1 Precision Medicine: Familiarity, Precived Health Oriver, and Genetic Testing Considerations Acr Uteracy Levis in Diverse Sample. Genetic testing and effectability aga among Dead women. S. Bereivies penetic testing: Genetic testing senseline
MEDICAL CENTER Home General Information Met Texe D Journal title: Corporate author(s):	Journal of genetic counseling National Society of Genetic Counselors	Journal of applied research is intellectual disabilities Journal of school nursing Journal of rural health Access Citations Hou Journal til Journal til Statement Adheres te	NDERBILT VUNIVERSITY MEDICAL CENTER me General Information Metrics & I le: tof peer review policy:	Scholarly Publication Policies Open Access Citations Journal of genetic counseling Yes	MEDICAL CENT Home Genera Journal Itile: Citation count:	Journal of genetic counseling Journal of genetic totigg and testing Journal of genetic counseling Journal of ge
MEDICAL CENTER Home General Information Met	Journal of genetic counseling National Society of Genetic Counselors 1059-7700(Print); 1573-3599(Electronic)	Journal of applied research is intellectual disabilities Journal of school nursing Calcier Journal of rural health Access Citations Hou Journal til Statement Adheres to Committee	NDERBILT VUNIVERSITY MEDICAL CENTER me General Information Metrics & I le: Lof peer review policy: b ICMJE recommendations:	Scholarly Publication Policies Open Access Citations Journal of genetic counseling Yes Not stated Ves	MEDICAL CENT Home Genera Journal Itile: Citation count:	
MEDICAL CENTER Home General Information Met Text Corporate author(s): ISSN: Scope/Aims URL:	Journal of genetic counseling National Society of Genetic Counselors 1059-7700(Print); 1573-3599(Electronic) Journal scope/aims link	Journal of applied research in intellectual disabilities Causer Journal of rural health Access Citations Hou Journal til Statement Adheres t Commite Adheres t Commite Archived i Participat	NDERBILT VUNIVERSITY MEDICAL CENTER ne General Information Metrics & I le: of peer review policy: o ICMJE recommendations: e on Publication Ethics (COPE) journal member: n publied Central: es in national and international archiving services (e.c.	Scholarly Publication Policies Open Access Citations Journal of genetic counseling Yes Not stated Yes Not stated Yes Not currently archived	MEDICAL CENT Home Genera Journal Itile: Citation count:	
HEDICAL CENTER Home General Information Met Corporate author(s): ISSN: Scope/Aims URL: Publisher:	Journal of genetic counseling National Society of Genetic Counselors 1059-7700(Print); 1573-3599(Electronic) Journal scope/aims link Wiley	Journal of applied research is intellectual disabilities Causer Journal of rural health Access Citations Hot Statement Adheres t Committe Archived i Participat CLOCKSS	NDERBILT VUNIVERSITY MEDICAL CENTER me General Information Metrics & I le: of per review policy: JCMJE recommendations: e on Publication Ethics (COPE) journal member: n PubMed Central: es in national and international archiving services (e.g. :	Scholarly Publication Policies Open Access Citations	MEDICAL CENT	
HEDICAL CENTER Home General Information Met Corporate author(s): ISSN: Scope/Aims URL: Publication start year: Publication start year: Publication start year:	Journal of genetic counseling National Society of Genetic Counselors 1059-7700(Print); 1573-3590(Electronic) Journal scope/aims link Wiley 1992 6 issues per year Author instructions link	Journal of applied research in intellectual disabilities Causer Journal of rural health Access Citations Hou Journal til Statement Adheres t Commite Adheres t Commite Archived i Participat	NDERBILT VUNIVERSITY MEDICAL CENTER me General Information Metrics & I le: of per review policy: JCMJE recommendations: e on Publication Ethics (COPE) journal member: n PubMed Central: es in national and international archiving services (e.g. :	Scholarly Publication Policies Open Access Citations Journal of genetic counseling	d	Add adjordee and below to be adjusted on the set of the set o
MEDICAL CENTER Home General Information Met Corporate author(s): ISSN: Scope/Alms URL: Publicher: Publication start year: Publication frequency:	Journal of genetic counseling National Society of Genetic Counselors 1059-7700(Print), 1573-3599(Electronic) Journal scope/alms link Wiley 1992 6 issues per year Author instructions link Journal homepage link	Journal of applied research is intellectual disabilities Causer Journal of rural health Access Citations Hot Statement Adheres t Committe Archived i Participat CLOCKSS	NDERBILT VUNIVERSITY MEDICAL CENTER me General Information Metrics & I le: of per review policy: JCMJE recommendations: e on Publication Ethics (COPE) journal member: n PubMed Central: es in national and international archiving services (e.g. :	Scholarly Publication Policies Open Access Citations Journal of genetic counseling	d	Address and a second seco

SPI-Hub: Scholarly Publishing Information Hub [Internet]. Nashville (TN): Center for Knowledge Management [cited 2023 Oct 3]. Available from: https://spi-hub.app.vumc.org/

Review journal requirements



Reviews

Review articles contain systematic or scoping reviews of the literature or concise tutorials on topics of broad interest to the readers.

The structured abstract for a review should contain the headings: Objectives, Methods, Results, and Discussion. It is suggested that systematic reviews follow Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) guidelines.

Word count: up to 4000 words. Structured abstract: up to 250 words. Tables: up to 4. Figures: up to 6. References: unlimited.

Originally released in 2009; updated in 2020

RESEARCH METHODS AND REPORTING OPEN ACCESS The PRISMA 2020 statement: an updated guideline for reporting systematic reviews Check for updates Matthew J Page,¹ Joanne E McKenzie,¹ Patrick M Bossuyt,² Isabelle Boutron,³ Tammy C Hoffmann,⁴ Cynthia D Mulrow,⁵ Larissa Shamseer,⁶ Jennifer M Tetzlaff,⁷ Elie A Akl,⁸ Sue E Brennan,¹ Roger Chou,⁹ Julie Glanville,¹⁰ Jeremy M Grimshaw,¹¹ Asbiørn Hróbiartsson.¹² Manoi M Lalu,¹³ Tianiing Li,¹⁴ Elizabeth W Loder,¹⁵ Evan Mayo-Wilson,¹⁶ Steve McDonald,¹ Luke A McGuinness,¹⁷ Lesley A Stewart,¹⁸ James Thomas,¹⁹ Andrea C Tricco.²⁰ Vivian A Welch.²¹ Penny Whiting.¹⁷ David Moher²² The Preferred Reporting Items for the revised flow diagrams for original For numbered affiliations see end Systematic reviews and Meta-Analyses and updated reviews. Correspondence to: M J Page matthew.page@monash.edu (PRISMA) statement, published in (ORCID 0000-0002-4242-7526) 2009, was designed to help systematic Additional material is published online only. To view please visit reviewers transparently report why the the iournal online. review was done, what the authors did, Cite this as: BM/ 2021;372:n71 http://dx.doi.org/10.1136/bmj.n71 and what they found. Over the past Accepted: 4 January 2021 decade, advances in systematic review methodology and terminology have necessitated an update to the guideline. The PRISMA 2020 statement

replaces the 2009 statement and includes new reporting guidance that reflects advances in methods to identify, select, appraise, and synthesise studies. The structure and presentation of the items have been modified to facilitate implementation. In this article, we present the PRISMA 2020 27-item checklist, an expanded checklist that details reporting recommendations for each item, the PRISMA 2020 abstract checklist, and

of the article.

Systematic reviews serve many critical roles. They can provide syntheses of the state of knowledge in a field, from which future research priorities can be identified; they can address questions that otherwise could not be answered by individual studies; they can identify problems in primary research that should be rectified in future studies; and they can generate or evaluate theories about how or why phenomena occur. Systematic reviews therefore generate various types of knowledge for different users of reviews (such as patients, healthcare providers, researchers, and policy makers).¹² To ensure a systematic review is valuable to users, authors should prepare a transparent, complete, and accurate account of why the review was done, what they did (such as how studies were identified and selected) and what they found (such as characteristics of contributing studies and results of meta-analyses). Up-to-date reporting guidance facilitates authors achieving this.3

The Preferred Reporting Items for Systematic reviews and Meta-Analyses (PRISMA) statement published in 2009 (hereafter referred to as PRISMA 2009)4-10 is a reporting guideline designed to address poor reporting of systematic reviews.¹¹ The PRISMA 2009 statement comprised a checklist of 27 items recommended for reporting in systematic reviews and an "explanation and elaboration" paper¹²⁻¹⁶ providing additional reporting guidance for each item, along with

What is PRISMA?:

"PRISMA is an evidence-based *minimum set of items for reporting* in systematic reviews and meta-analyses. PRISMA primarily focuses on the reporting of reviews evaluating the effects of interventions but can also be used as a basis for reporting systematic reviews with objectives other than evaluating interventions (e.g., evaluating aetiology, prevalence, diagnosis or prognosis)."

Who Uses:

Journal editors, peer reviewers, authors

What it is *not*: "a quality assessment instrument to gauge the quality of a systematic review"

https://www.prisma-statement.org/

*Page MJ, McKenzie JE, Bossuyt PM, et al. The PRISMA 2020 statement: an updated guideline for reporting systematic reviews. Rev Esp Cardiol (Engl Ed). 2021 Sep;74(9):790-799. English, Spanish. doi: 10.1016/j.rec.2021.07.010. Erratum in: Rev Esp Cardiol (Engl Ed). 2022 Feb;75(2):192. PMID: 34446261.



Section and	Item							
Topic	#	Checklist item	Section and	ltem	Checklist item			
TITLE			Торіс	#				
Title	1	Identify the report as a systematic review.	RESULTS	RESULTS				
ABSTRACT			Study selection	16a				
Abstract	2	See the PRISMA 2020 for Abstracts checklist.			the review, ideally using a flow diagram.			
INTRODUCTION				16b	Cite studies that might appear to meet the inclusion criteria, but which were excluded, and explain why they were excluded.			
Rationale	3 Describe the rationale for the review in the context of existing knowledge		Study	17	Cite each included study and present its characteristics.			
Objectives	4	Provide an explicit statement of the objective(s) or question(s) the rev	characteristics					
METHODS	5	Specify the inclusion and exclusion criteria for the review and how stu	Risk of bias in	18	Present assessments of risk of bias for each included study.			
Eligibility criteria	5 6	Specify all databases, registers, websites, organisations, reference lis	studies					
sources	0	date when each source was last searched or consulted.	Results of individual studies	19	For all outcomes, present, for each study: (a) summary statistics for each group (where appropriate) and (b) an effect estimate and its precision (e.g. confidence/credible interval), ideally using structured tables or plots.			
Search strategy	7	Present the full search strategies for all databases, registers and web	Results of	20a	For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies.			
Selection process	8	Specify the methods used to decide whether a study met the inclusio and each report retrieved, whether they worked independently, and if Specify the methods used to collect data from reports, including how	syntheses	20b	Present results of all statistical syntheses conducted. If meta-analysis was done, present for each the summary estimate and its precision (e.g. confidence/credible interval) and measures of statistical heterogeneity. If comparing groups, describe the direction of the effect.			
process		ndependently, any processes for obtaining or confirming data from st		20c	Present results of all investigations of possible causes of heterogeneity among study results.			
-		process.		20d	Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results.			
Data items	10a	List and define all outcomes for which data were sought. Specify whe study were sought (e.g. for all measures, time points, analyses), and	Reporting biases		Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed.			
	405	List and define all other variables for which data were sought (e.g. pa						
		assumptions made about any missing or unclear information.	Certainty of evidence	22	Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed.			
Study risk of bias assessment	11	Specify the methods used to assess risk of bias in the included studie study and whether they worked independently, and if applicable, deta	DISCUSSION					
Effect measures	12	Specify for each outcome the effect measure(s) (e.g. risk ratio, mean	Discussion	23a	Provide a general interpretation of the results in the context of other evidence.			
Synthesis	13a	Describe the processes used to decide which studies were eligible fo		23b	Discuss any limitations of the evidence included in the review.			
methods	154	comparing against the planned groups for each synthesis (item #5)).		23c	Discuss any limitations of the review processes used.			
	13b	Describe any methods required to prepare the data for presentation of		23d	Discuss implications of the results for practice, policy, and future research.			
		conversions.	OTHER INFORMAT					
		Describe any methods used to tabulate or visually display results of in	Registration and	24a	Provide registration information for the review, including register name and registration number, or state that the review was not registered.			
	13d	Describe any methods used to synthesize results and provide a ratio model(s), method(s) to identify the presence and extent of statistical to	protocol	24b	Indicate where the review protocol can be accessed, or state that a protocol was not prepared.			
	13e	Describe any methods used to explore possible causes of heterogen		24c	Describe and explain any amendments to information provided at registration or in the protocol.			
	13f	Describe any sensitivity analyses conducted to assess robustness of	Support	25	Describe sources of financial or non-financial support for the review, and the role of the funders or sponsors in the review.			
Reporting bias assessment		Describe any methods used to assess risk of bias due to missing res	Competing interests	26	Declare any competing interests of review authors.			
Certainty assessment	15	Describe any methods used to assess certainty (or confidence) in the	Availability of data, code and other materials	27	Report which of the following are publicly available and where they can be found: template data collection forms; data extracted from included studies; data used for all analyses; analytic code; any other materials used in the review.			
			other materials					

Page MJ, McKenzie JE, Bossuyt PM, et al. The PRISMA 2020 statement: an updated guideline for reporting systematic reviews. Rev Esp Cardiol (Engl Ed). 2021 Sep;74(9):790-799. English, Spanish. doi: 10.1016/j.rec.2021.07.010. Erratum in: Rev Esp Cardiol (Engl Ed). 2022 Feb;75(2):192. PMID: 34446261.

ection and ltem ppic # Checklist	item	Location where iten is reported		
TLE				
le 1 Identify the SSTRACT	report as a systematic review.		- 1	
-	ISMA 2020 for Abstracts checklist.			
TRODUCTION				
ationale 3 Describe th	e rationale for the review in the context of existing knowledge.			
ojectives 4 Provide an	explicit statement of the objective(s) or question(s) the review addresses.			
THODS	Title			
	Item 1. Identify the report as a systematic review			
	 Explanation: Inclusion of "systematic review" in the title facilitates identification by potential users (patients, healthcare providers, policy makers, etc) and appropriate indexing in databases. Terms such as "review," "literature review," "evidence synthesis," or "knowledge synthesis" are not recommended because they do not distinguish systematic and non-systematic approaches. We also discourage using the terms "systematic review" and "meta-analysis" interchangeably because a systematic review refers to the entire set of processes used to identify, select, and synthesise evidence, whereas meta-analysis refers only to the statistical synthesis. Furthermore, a meta-analysis can be done outside the context of a systematic review (for example, when researchers meta-analyse results from a limited set of studies that they have conducted). Essential elements Identify the report as a systematic review in the title. Report an informative title that provides key information about the main objective or question that the review addresses (for reviews of interventions, this usually includes the population and the intervention(s) that the review 	L Cite Share	NUM NUM NUM NUM NUM NUM NUM NUM NUM NUM NUM NUM	The Value of Applying Machine Learning in Predicting the Time of Symptom Onset in Stroke Patients: Systematic Review and Meta- Analysis. Feng J, Zhang Q, Wu F, Peng J, Li Z, Chen Z. J Med Internet Res. 2023 Oct 12;25:e44895. doi: 10.2196/44895. PMID: 37824198 CACCESS Options Review.
	addresses). Additional elements - Consider providing additional information in the title, such as the method of analysis used (for example, "a systematic review with meta-analysis"), the designs of included studies (for example, "a systematic review of randomised trials"), or an indication that the review is an update of an existing review or a continually updated ("living") systematic review.	2 Cite Share	Journal of Mee See Internet Proses Cattoriation	Researched Apps Used in Dementia Care for People Living With Dementia and Their Informal Caregivers: Systematic Review on Ap Features, Security, and Usability. Ye B, Chu CH, Bayat S, Babineau J, How TV, Mihailidis A. J Med Internet Res. 2023 Oct 12;25:e46188. doi: 10.2196/46188.

Page MJ, McKenzie JE, Bossuyt PM, et al. The PRISMA 2020 statement: an updated guideline for reporting systematic reviews. Rev Esp Cardiol (Engl Ed). 2021 Sep;74(9):790-799. English, Spanish. doi: 10.1016/j.rec.2021.07.010. Erratum in: Rev Esp Cardiol (Engl Ed). 2022 Feb;75(2):192. PMID: 34446261.

PRIS	SMA 2	2020 Checklist http://prisma-statement.org/PRISMAStatement/	
Section and Topic	ltem #	Checklist item	Location where item is reported
TITLE			
Title	1	Identify the report as a systematic review.	
ABSTRACT			
Abstract	2	See the PRISMA 2020 for Abstracts checklist.	
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of existing knowledge.	
Objectives	4	Provide an explicit statement of the objective(s) or question(s) the review addresses.	
METHODS			

Rationale

Item 3. Describe the rationale for the review in the context of existing knowledge

Explanation: Describing the rationale should help readers understand why the review was conducted and what the review might add to existing knowledge.

Essential elements

Describe the current state of knowledge and its uncertainties.

Articulate why it is important to do the review.

If other systematic reviews addressing the same (or a largely similar) question are available, explain why the
current review was considered necessary (for example, previous reviews are out of date or have discordant results;
new review methods are available to address the review question; existing reviews are methodologically flawed; or
the current review was commissioned to inform a guideline or policy for a particular organisation). If the review is
an update or replication of a particular systematic review, indicate this and cite the previous review.

 If the review examines the effects of interventions, also briefly describe how the intervention(s) examined might work.

Additional elements

 If there is complexity in the intervention or context of its delivery, or both (such as multi-component interventions, interventions targeting the population and individual level, equity considerations³⁰), consider presenting a logic model (sometimes referred to as a conceptual framework or theory of change) to visually display the hypothesised relationship between intervention components and outcomes.³¹ ³²

Example of item 3 of PRISMA 2020 checklist

"To contain widespread infection and to reduce morbidity and mortality among health-care workers and others in contact with potentially infected people, jurisdictions have issued conflicting advice about physical or social distancing. Use of face masks with or without eye protection to achieve additional protection is debated in the mainstream media and by public health authorities, in particular the use of face masks for the general population; moreover, optimum use of face masks in health-care settings, which have been used for decades for infection prevention, is facing challenges amid personal protective equipment (PPE) shortages. Any recommendations about social or physical distancing, and the use of face masks, should be based on the best available evidence. Evidence has been reviewed for other respiratory viral infections, mainly seasonal influenza, but no comprehensive review is available of information on SARS-CoV-2 or related betacoronaviruses that have caused epidemics, such as severe acute respiratory syndrome (SARS) or Middle East respiratory syndrome (MERS). We, therefore, systematically reviewed the effect of physical distance, face masks, and eye protection on transmission of SARS-CoV-2, SARS-CoV, and MERS-CoV."¹⁶⁹

Page MJ, McKenzie JE, Bossuyt PM, et al. The PRISMA 2020 statement: an updated guideline for reporting systematic reviews. Rev Esp Cardiol (Engl Ed). 2021 Sep;74(9):790-799. English, Spanish. doi: 10.1016/j.rec.2021.07.010. Erratum in: Rev Esp Cardiol (Engl Ed). 2022 Feb;75(2):192. PMID: 34446261.

FERES MAN

PRISMA 2020 Checklist

Section and Topic	ltem #	Checklist item	Location where iter is reported
METHODS			
Eligibility criteria	5	Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses.	
Information sources			
Search strategy	7	Present the full search strategies for all databases, registers and websites, including any filters and limits used.	
Selection process	8	Specify the methods used to decide whether a study met the inclusion criteria of the review, including how many reviewers screened each record and each report retrieved, whether they worked independently, and if applicable, details of automation tools used in the process.	
Data collection process	9	Specify the methods used to collect data from reports, including how many reviewers collected data from each report, whether they worked independently, any processes for obtaining or confirming data from study investigators, and if applicable, details of automation tools used in the process.	
Data items	10a	List and define all outcomes for which data were sought. Specify whether all results that were compatible with each outcome domain in each study were sought (e.g. for all measures, time points, analyses), and if not, the methods used to decide which results to collect.	
	10b	List and define all other variables for which data were sought (e.g. participant and intervention characteristics, funding sources). Describe any assumptions made about any missing or unclear information.	
Study risk of bias assessment	11	Specify the methods used to assess risk of bias in the included studies, including details of the tool(s) used, how many reviewers assessed each study and whether they worked independently, and if applicable, details of automation tools used in the process.	
Effect measures	12	Specify for each outcome the effect measure(s) (e.g. risk ratio, mean difference) used in the synthesis or presentation of results.	
Synthesis methods	13a	Describe the processes used to decide which studies were eligible for each synthesis (e.g. tabulating the study intervention characteristics and comparing against the planned groups for each synthesis (item #5)).	
	13b	Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions.	
	13c	Describe any methods used to tabulate or visually display results of individual studies and syntheses.	
	13d	Describe any methods used to synthesize results and provide a rationale for the choice(s). If meta-analysis was performed, describe the model(s), method(s) to identify the presence and extent of statistical heterogeneity, and software package(s) used.	
	13e	Describe any methods used to explore possible causes of heterogeneity among study results (e.g. subgroup analysis, meta-regression).	
	13f	Describe any sensitivity analyses conducted to assess robustness of the synthesized results.	
Reporting bias assessment	14	Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases).	
Certainty assessment	15	Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome.	

http://prisma-statement.org/PRISMAStatement/

Effect measures

Item 12. Specify for each outcome the effect measure(s) (such as risk ratio, mean difference) used in the synthesis or presentation of results

Explanation: To interpret a synthesised or study result, users need to know what effect measure was used. Effect measures refer to statistical constructs that compare outcome data between two groups. For instance, a risk ratio is an example of an effect measure that might be used for dichotomous outcomes.⁶⁹ The chosen effect measure has implications for interpretation of the findings and might affect the meta-analysis results (such as heterogeneity⁹⁰). Authors might use one effect measure to synthesise results and then re-express the synthesised results using another effect measure. For example, for meta-analyses of standardised mean differences, authors might re-express the combined results in units of a well known measurement scale, and for meta-analyses of risk ratios or odds ratios, authors might re-express results in absolute terms (such as risk difference).⁹¹ Furthermore, authors need to interpret effect estimates in relation to whether the effect is of importance to decision makers. For a particular outcome and effect measure, this requires specification of thresholds (or ranges) used to interpret the size of effect (such as minimally important difference; ranges for no/trivial, small, moderate, and large effects).⁹¹

Essential elements

Specify for each outcome or type of outcome (such as binary, continuous) the effect measure(s) (such as risk
ratio, mean difference) used in the synthesis or presentation of results.

- State any thresholds or ranges used to interpret the vize of effect (such as minimally important difference; ranges for no/trivial, small, moderate, and large effects) and the rationale for these thresholds.
- If synthesised results were re-expressed to a different vifect measure, report the methods used to re-express
 results (such as meta-analysing risk ratios and computing an absolute risk reduction based on an assumed
 comparator risk).

Additional elements

Consider providing justification for the choice of effect measure. For example, a standardised mean difference
may have been chosen because multiple instruments or scales were used across studies to measure the same
outcome domain (such as different instruments to assess depression).

Example of item 12 of PRISMA 2020 checklist

"We planned to analyse dichotomous outcomes by calculating the risk ratio (RR) of a successful outcome (i.e. improvement in relevant variables) for each trial...Because the included resilience-training studies used different measurement scales to assess resilience and related constructs, we used standardised mean difference (SMD) effect sizes (Cohen's d) and their 95% confidence intervals (CIs) for continuous data in pairwise meta-analyses."¹⁷⁹

There are two broad categories of data synthesis.

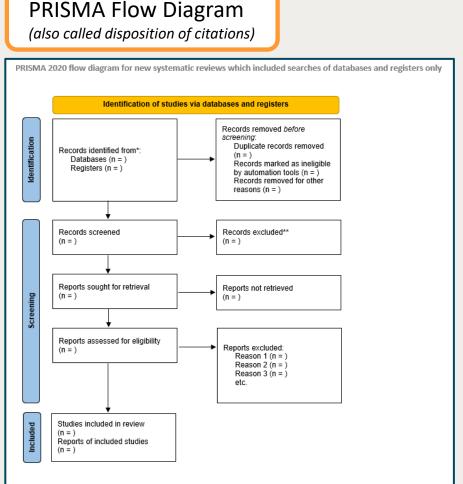
PRISMA 2020 Checklist							
Section and Topic	ltem #	Checklist item	Location where item is reported				
	13a	Describe the processes used to decide which studies were eligible for each synthesis (e.g. tabulating the study intervention characteristics and comparing against the planned groups for each synthesis (item #5)).					
	13b	Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions.					
	13c	Describe any methods used to tabulate or visually display results of individual studies and syntheses.					
	13d	Describe any methods used to synthesise results and provide a rationale for the choice(s). If meta-analysis was performed, describe the model(s), method(s) to identify the presence and extent of statistical heterogeneity, and software package(s) used.					
	13e	Describe any methods used to explore possible causes of heterogeneity among study results (e.g. subgroup analysis, meta-regression).					
	13f	Describe any sensitivity analyses conducted to assess robustness of the synthesised results.					

	1		Location		PRISMA Flow		
Section and Topic	Item #	Checklist item	where item		(also called disposit		
RESULTS			is reported				
Study selection	16a	Describe the results of the search and selection process, from the number of records identified in the search to the number of studies included in the review, ideally using a flow diagram.		PF	RISMA 2020 flow diagram for new		
	16b	Cite studies that might appear to meet the inclusion criteria, but which were excluded, and explain why they were excluded.					
Study characteristics	17	Cite each included study and present its characteristics.			Identification		
Risk of bias in studies	18	Present assessments of risk of bias for each included study.					
Results of individual studies	19	For all outcomes, present, for each study: (a) summary statistics for each group (where appropriate) and (b) an effect estimate and its precision (e.g. confidence/credible interval), ideally using structured tables or plots.			Records identified from*: Databases (n =) Registers (n =)		
Results of	20a	For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies.			Registers (n =)		
syntheses	20b	Present results of all statistical syntheses conducted. If meta-analysis was done, present for each the summary estimate and its precision (e.g. confidence/credible interval) and measures of statistical heterogeneity. If comparing groups, describe the direction of the effect.		<u><u> </u></u>			
	20c	Present results of all investigations of possible causes of heterogeneity among study results.					
	20d	Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results.			→ +		
Reporting biases	21	Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed.		-	Records screened		
Certainty of evidence	22	Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed.			(n =)		
DISCUSSION					_		
Discussion	23a	Provide a general interpretation of the results in the context of other evidence.			Reports sought for retrieval		
	23b	Discuss any limitations of the evidence included in the review.					
	23c	Discuss any limitations of the review processes used.			Creening		
	23d	Discuss implications of the results for practice, policy, and future research.					
OTHER INFORMA	TION				Reports assessed for eligibi		
Registration and	24a	Provide registration information for the review, including register name and registration number, or state that the review was not registered.			(n =)		
protocol	24b	Indicate where the review protocol can be accessed, or state that a protocol was not prepared.					
	24c	Describe and explain any amendments to information provided at registration or in the protocol.					
Support	25	Describe sources of financial or non-financial support for the review, and the role of the funders or sponsors in the review.					
Competing interests	26	Declare any competing interests of review authors.					
Availability of data, code and other materials	27	Report which of the following are publicly available and where they can be found: template data collection forms; data extracted from included studies; data used for all analyses; analytic code; any other materials used in the review.			Studies included in review (n =) Reports of included studies (n =)		

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

For more information, visit: http://www.prisma-statement.org/

http://prisma-statement.org/PRISMAStatement/



*Consider, if feasible to do so, reporting the number of records identified from each database or register searched (rather than the total number across all databases/registers).

**If automation tools were used, indicate how many records were excluded by a human and how many were excluded by automation tools.

PRISMA Endorsers

Several editorial organization and several hundered journals publishing systematic reviews endorse the PRISMA Statement, as listed below.

To find out more about endorsement and how your organization or journal can become an endorser, click here

Editorial Organizations

Centre for Reviews and Dissemination Cochrane Collaboration Council of Science Editors National Evidence-based Healthcare Collaborating Agency (NECA) World Association of Medical Editors

Journals

A B C D E F G H I J K L M N O P Q R S T U V W Y Y Z

Acta Obstetricia et Gynecologica Scandinavica AIDS Research and Therapy Algerian Journal of Chemical Engineering Alimentary Pharmacology and Therapeutics Allergy, Asthma & Clinical Immunology Alzheimer's Research & Therapy American Society for Quality (ASQ) Annals of Clinical Microbiology and Antimicrobials Annals of Emergency Medicine Annals of General Psychiatry Annals of Surgical Innovation and Research Annals of Translational Medicine Archives of Disease in Childhood Archives of Disease in Childhood. Fetal and neonatal edition Asia Pacific Family Medicine AUTISM Automated Experimentation

List of journals endorsing PRISMA:

http://www.prisma-statement.org/Endorsement/PRISMAEndorsers

BMJ's Author Instructions page: https://bmjopen.bmj.com/pages/authors

BMJ Journals				search	
BMJ Ope	n			Latest content Archive Fo	r authors A
Home / Authors					
	Authors				
	Articles Submission guidelines Article processing charges Wahers and Discounts Preprints Supplements Submit manuscript	Authors Why publish in BMJ Open? ORCID Copyright and authors' rights Resources Rapid responses Time to first decision with review:	Journal Policy Editorial policy Peer review process Reporting patient and pu involvement in research Data Sharing Total content views: Im	article. Completed applicable check	5 be followed where appropriate. Please use these guidelines to structure your lists, structured abstracts and flow diagrams should be uploaded with your alongside the final version of your paper. For reporting of randomised controlled trials: please use the appropriate extension to the CONSORT statement, including the extension for writing
	Why publish in <i>BMJ C</i>	115 days (median)	8.80 million 3.0	SRQR	abstracts For reporting qualitative research
	High Impact of your work 2 year Impact Factor: 2.692 5 year Impact Factor: 3.587 CiteScore: 3.9 SCImago Journal Rank (SJR): 0.982		Wide dissemination to a g 8.12 million article views 29.819 Altmetric mentions 5.4K Fans on Facebook and More than 5,000 email aler	COREQ	For reporting qualitative research For reporting of diagnostic accuracy studies
	Sennage Journe Heim Leith Strong			STROBE	For reporting of observational studies in epidemiology Checklist for cohort, case-control, and cross-sectional studies (combined) Checklist for cohort studies Checklist for case-control studies Checklist for cross-sectional studies
				PRISMA	For reporting of systematic reviews
				PRISMA-P	For reporting of systematic review and meta-analysis protocols
				PRISMA-ScR	For reporting of scoping reviews
				SPIRIT	For reporting of meta-analyses of observational studies
				STREGA	For reporting protocols for RCTs For reporting of gene-disease association studies
_				TRIPOD	For reporting of studies developing, validating, or updating a prediction model, whether for diagnostic or prognostic purposes.
				CHEERS	For reporting of health economic evaluations
					The Equator Network (Enhancing the Quality and Transparency Of Health Research) provides a comprehensive list of reporting guidelines.



S2 Table: PRISMA 2020 checklist

Section and Topic	ltem #	Checklist item	Location where item is reported
TITLE			
Title	1	Identify the report as a systematic review.	Title
ABSTRACT			
Abstract	2	See the PRISMA 2020 for Abstracts checklist.	We reviewed the checklist an applied it for our abstract.
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of existing knowledge.	Introduction
Objectives	4	Provide an explicit statement of the objective(s) or question(s) the review addresses.	Introduction
METHODS			
Eligibility criteria	5	Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses.	Eligibility criteria
	-		Data synthesis
Information sources	6	Specify all databases, registers, websites, organisations, reference lists and other sources searched or consulted to identify studies. Specify the date when each source was last searched or consulted.	Search process
3001063			S3 Tables and Text
Search strategy	7	Present the full search strategies for all databases, registers and websites, including any filters and limits used.	S3 Tables and Text
Selection process	8	Specify the methods used to decide whether a study met the inclusion criteria of the review, including how many reviewers screened each record and each report retrieved, whether they worked independently, and if applicable, details of automation tools used in the process.	Eligibility criteria Study screening and data extraction
			Data synthesis
Data collection process	9	Specify the methods used to collect data from reports, including how many reviewers collected data from each report, whether they worked independently, any processes for obtaining or confirming data from study investigators, and if applicable, details of automation tools used in the process.	Study screening and data extraction
Data items	10a	List and define all outcomes for which data were sought. Specify whether all results that were compatible with each outcome domain in each study were sought (e.g. for all measures, time points, analyses), and if not, the methods used to decide which results to collect.	Study screening and data extraction
	10b	List and define all other variables for which data were sought (e.g. participant and intervention characteristics, funding sources). Describe any assumptions made about any missing or unclear information.	Study screening and data extraction
Study risk of bias assessment	11	Specify the methods used to assess risk of bias in the included studies, including details of the tool(s) used, how many reviewers assessed each study and whether they worked independently, and if applicable, details of automation tools used in the process.	Quality assessment
Effect measures	12	Specify for each outcome the effect measure(s) (e.g. risk ratio, mean difference) used in the synthesis or presentation of results.	Study screening and data extraction
			Data synthesis
Synthesis methods	13a	Describe the processes used to decide which studies were eligible for each synthesis (e.g. tabulating the study intervention characteristics and comparing against the planned groups for each synthesis (item #5)).	Data synthesis
-	13b	Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions.	Data synthesis

Umeukeje EM, Koonce TY, Kusnoor SV, Ulasi II, Kostelanetz S, Williams AM, Blasingame MN, Epelbaum MI, Giuse DA, Apple AN, Kaur K, González Peña T, Barry D, Eisenstein LG, Nutt CT, Giuse NB. Systematic review of international studies evaluating MDRD and CKD-EPI estimated glomerular filtration rate (eGFR) equations in Black adults. PLoS One. 2022 Oct 18;17(10):e0276252. doi: 10.1371/journal.pone.0276252. PMID: 36256652; PMCID: PMC9578594.

Several extensions of the PRISMA Statement have been developed to facilitate the reporting of different types or aspects of systematic reviews.

PRISMA TRANSPARENT REPORTING OF SYSTEMATIC REVIEWS AND META-ANALYSES									
HOME		PRISMA STATEMENT	EX	TENSIONS					
Abstracts	Acupuncture	Diagnostic Test Accuracy	EcoEvo	Equity					
	 P P<	RISMA for Abstracts RISMA for Acupuncture RISMA for Diagnostic Test Accuracy RISMA for EcoEvo RISMA Equity RISMA Harms (for reviews including RISMA Individual Patient Data RISMA for Network Meta-Analyses RISMA for Network Meta-Analyses RISMA for Scoping Reviews RISMA for Scoping Reviews RISMA for Searching xtensions in development							

http://prisma-statement.org/Extensions/



Objectives: \checkmark Describe reporting requirements for systematic reviews (PRISMA 2020 statement)

Presented by

Center for Knowledge Management

