MOOSE Checklist for Meta-analyses of Observational Studies

Item No	Recommendation	Reported on Page No
Reporting o	f background should include	•
1	Problem definition	3
2	Hypothesis statement	3
3	Description of study outcome(s)	4
4	Type of exposure or intervention used	3,4
5	Type of study designs used	4
6	Study population	4
Reporting o	f search strategy should include	
7	Qualifications of searchers (eg, librarians and investigators)	4
8	Search strategy, including time period included in the synthesis and key words	4
9	Effort to include all available studies, including contact with authors	4
10	Databases and registries searched	4
11	Search software used, name and version, including special features used (eg, explosion)	4
12	Use of hand searching (eg, reference lists of obtained articles)	4
13	List of citations located and those excluded, including justification	6
14	Method of addressing articles published in languages other than English	4
15	Method of handling abstracts and unpublished studies	4,6
16	Description of any contact with authors	6
Reporting o	f methods should include	
17	Description of relevance or appropriateness of studies assembled for assessing the hypothesis to be tested	6
18	Rationale for the selection and coding of data (eg, sound clinical principles or convenience)	Not applicable
19	Documentation of how data were classified and coded (eg, multiple raters, blinding and interrater reliability)	Not applicable
20	Assessment of confounding (eg, comparability of cases and controls in studies where appropriate)	Not applicable
21	Assessment of study quality, including blinding of quality assessors, stratification or regression on possible predictors of study results	5
22	Assessment of heterogeneity	Not applicable
23	Description of statistical methods (eg, complete description of fixed or random effects models, justification of whether the chosen models account for predictors of study results, dose-response models, or cumulative meta-analysis) in sufficient detail to be replicated	Not applicable
24	Provision of appropriate tables and graphics	13
Reporting o	f results should include	
25	Graphic summarizing individual study estimates and overall estimate	Not applicable
26	Table giving descriptive information for each study included	Not applicable
27	Results of sensitivity testing (eg, subgroup analysis)	Not applicable
28	Indication of statistical uncertainty of findings	Not applicable

Item No	Recommendation	Reported on Page No
Reporting o	f discussion should include	
29	Quantitative assessment of bias (eg, publication bias)	Not applicable
30	Justification for exclusion (eg, exclusion of non-English language citations)	Not applicable
31	Assessment of quality of included studies	6,8
Reporting o	f conclusions should include	
32	Consideration of alternative explanations for observed results	9,10
33	Generalization of the conclusions (ie, appropriate for the data presented and within the domain of the literature review)	9,10,11
34	Guidelines for future research	10,11
35	Disclosure of funding source	12

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