MOOSE Checklist for Meta-analyses of Observational Studies

Item No	Recommendation	Reported on Page No
Reporting o	f background should include	
1	Problem definition	3-5
2	Hypothesis statement	5
3	Description of study outcome(s)	8-11
4	Type of exposure or intervention used	5
5	Type of study designs used	5-6
6	Study population	8
Reporting o	f search strategy should include	
7	Qualifications of searchers (eg, librarians and investigators)	5-6
8	Search strategy, including time period included in the synthesis and key words	5-6
9	Effort to include all available studies, including contact with authors	21
10	Databases and registries searched	5-6
11	Search software used, name and version, including special features used (eg, explosion)	5-7
12	Use of hand searching (eg, reference lists of obtained articles)	14-18
13	List of citations located and those excluded, including justification	
14	Method of addressing articles published in languages other than English	
15	Method of handling abstracts and unpublished studies	
16	Description of any contact with authors	1
Reporting o	f methods should include	
17	Description of relevance or appropriateness of studies assembled for assessing the hypothesis to be tested	5
18	Rationale for the selection and coding of data (eg, sound clinical principles or convenience)	5-7
19	Documentation of how data were classified and coded (eg, multiple raters, blinding and interrater reliability)	5-7
20	Assessment of confounding (eg, comparability of cases and controls in studies where appropriate)	5-7
21	Assessment of study quality, including blinding of quality assessors, stratification or regression on possible predictors of study results	5-7
22	Assessment of heterogeneity	5-7
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	7
24	Provision of appropriate tables and graphics	
Reporting o	f results should include	
25	Graphic summarizing individual study estimates and overall estimate	19-19
26	Table giving descriptive information for each study included	
27	Results of sensitivity testing (eg, subgroup analysis)	9-10
28	Indication of statistical uncertainty of findings	

Item No	Recommendation	Reported on Page No
Reporting of	f discussion should include	
29	Quantitative assessment of bias (eg, publication bias)	11
30	Justification for exclusion (eg, exclusion of non-English language citations)	
31	Assessment of quality of included studies	8-9
Reporting of	f conclusions should include	
32	Consideration of alternative explanations for observed results	13-14
33	Generalization of the conclusions (ie, appropriate for the data presented and within the domain of the literature review)	14
34	Guidelines for future research	14
35	Disclosure of funding source	14

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