MOOSE Checklist for Meta-analyses of Observational Studies

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15	Method of handling abstracts and unpublished studies	6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

Item No	Recommendation	Reported on Page No	
Reporting of discussion should include			
29	Quantitative assessment of bias (eg, publication bias)	17	
30	Justification for exclusion (eg, exclusion of non-English language citations)	17-18	
31	Assessment of quality of included studies	17-18	
Reporting of conclusions should include			
32	Consideration of alternative explanations for observed results	18	
33	Generalization of the conclusions (ie, appropriate for the data presented and within the domain of the literature review)	19	
34	Guidelines for future research	19	
35	Disclosure of funding source	20	

From: Stroup DF, Berlin JA, Morton SC, et al, for the Meta-analysis Of Observational Studies in Epidemiology (MOOSE) Group. Meta-analysis of Observational Studies in Epidemiology. A Proposal for Reporting. *JAMA*. 2000;283(15):2008-2012. doi: 10.1001/jama.283.15.2008.

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