MOOSE Checklist for Meta-analyses of Observational Studies

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15	Method of handling abstracts and unpublished studies	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

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

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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