MOOSE Checklist for Meta-analyses of Observational Studies

Item No	Recommendation	Reported on Page No		
Reporting of background should include				
1	Problem definition	5,6		
2	Hypothesis statement	Not applicable		
3	Description of study outcome(s)	6		
4	Type of exposure or intervention used	7		
5	Type of study designs used	7		
6	Study population	7		
Reporting of	search strategy should include			
7	Qualifications of searchers (eg, librarians and investigators)	1		
8	Search strategy, including time period included in the synthesis and key words	8		
9	Effort to include all available studies, including contact with authors	No additional contact pursued		
10	Databases and registries searched	8		
11	Search software used, name and version, including special features used (eg, explosion)	8, appendix 2		
12	Use of hand searching (eg, reference lists of obtained articles)	8		
13	List of citations located and those excluded, including justification	Figure 1		
14	Method of addressing articles published in languages other than English	No additional methods		
15	Method of handling abstracts and unpublished studies	Not reported		
16	Description of any contact with authors	Not applicable		
Reporting of	f methods should include			
17	Description of relevance or appropriateness of studies assembled for assessing the hypothesis to be tested	8		
18	Rationale for the selection and coding of data (eg, sound clinical principles or convenience)	8-9		
19	Documentation of how data were classified and coded (eg, multiple raters, blinding and interrater reliability)	9		
20	Assessment of confounding (eg, comparability of cases and controls in studies where appropriate)	Not reported		
21	Assessment of study quality, including blinding of quality assessors, stratification or regression on possible predictors of study results	8		
22	Assessment of heterogeneity	Not reported		
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	11,13-17		
Reporting of	results should include			
25	Graphic summarizing individual study estimates and overall estimate	Not applicable		

26	Table giving descriptive information for each study included	13-16
27	Results of sensitivity testing (eg, subgroup analysis)	Not reported
28	Indication of statistical uncertainty of findings	Not applicable

Item No	Recommendation	Reported on Page No		
Reporting of discussion should include				
29	Quantitative assessment of bias (eg, publication bias)	Not applicable		
30	Justification for exclusion (eg, exclusion of non-English language citations)	Figure 1		
31	Assessment of quality of included studies	12		
Reporting of conclusions should include				
32	Consideration of alternative explanations for observed results	23-24		
33	Generalization of the conclusions (ie, appropriate for the data presented and within the domain of the literature review)	24		
34	Guidelines for future research	25		
35	Disclosure of funding source	27		

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.

Transcribed from the original paper within the NEUROSURGERY® Editorial Office, Atlanta, GA, United Sates. August 2012.