

## MOOSE (Meta-analyses of Observational Studies in Epidemiology) Checklist

Item No	Recommendation	Reported on Page Number/Line Number	Reported on Section/Paragraph
<b>Reporting of Background</b>			
1	Problem definition	Page2/Line35-37	Abstract/Paragraph1
2	Hypothesis statement	Page2/Line35-37	Abstract/Paragraph1
3	Description of Study Outcome(s)	Page2/Line47-51	Abstract/Paragraph3
4	Type of exposure or intervention used	Page2/Line39-40	Abstract/Paragraph2
5	Type of study design used	Page2/Line39	Abstract/Paragraph2
6	Study population	Page2/Line47	Abstract/Paragraph3
<b>Reporting of Search Strategy</b>			
7	Qualifications of searchers (eg, librarians and investigators)	NA	NA
8	Search strategy, including time period included in the synthesis and keywords	Page3/Line87-92	Methods/Paragraph1
9	Effort to include all available studies, including contact with authors	Page4/Line119-122	Methods/Paragraph6
10	Databases and registries searched	Page3/Line88-89	Methods/Paragraph1
11	Search software used, name and version, including special features used (eg, explosion)	Page5/Line125	Methods/Paragraph7
12	Use of hand searching (eg, reference lists of obtained articles)	NA	NA
13	List of citations located and those excluded, including justification	Page3/Line95-98	Methods/Paragraph2
14	Method for addressing articles published in languages other than English	NA	NA
15	Method of handling abstracts and unpublished studies	Page4/Line119-122	Methods/Paragraph6
16	Description of any contact with authors	NA	NA

<b>Reporting of Methods</b>			
17	Description of relevance or appropriateness of studies assembled for assessing the hypothesis to be tested	Page4/Li ne125–137	Methods/Paragraph7
18	Rationale for the selection and coding of data (eg, sound clinical principles or convenience)	Page5/Li ne125–137	Methods/Paragraph7
19	Documentation of how data were classified and coded (eg, multiple raters, blinding, and interrater reliability)	Page4/Li ne114–116	Methods/Paragraph5
20	Assessment of confounding (eg, comparability of cases and controls in studies where appropriate)	NA	NA
21	Assessment of study quality, including blinding of quality assessors; stratification or regression on possible predictors of study results	NA	NA
22	Assessment of heterogeneity	Page4/Li ne125–137	Methods/Paragraph7
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	Page4/Li ne125–137	Methods/Paragraph7
24	Provision of appropriate tables and graphics	Page11/Li ne327–341	Figure1–4
<b>Reporting of Results</b>			
25	Graphic summarizing individual study estimates and overall estimate	Page13/Li ne340	Table1
26	Table giving descriptive information for each study included	Page13/Li ne340	Table1
27	Results of sensitivity testing (eg, subgroup analysis)	Page5/Li ne161–164	Result/Paragraph4
28	Indication of statistical uncertainty of findings	NA	NA
<b>Reporting of Discussion</b>			
29	Quantitative assessment of bias (eg, publication bias)	Page8/Li ne236–237	Discussion/Paragraph3
30	Justification for exclusion (eg, exclusion of non-English-language citations)	NA	NA
31	Assessment of quality of included studies	NA	NA
<b>Reporting of Conclusions</b>			
32	Consideration of alternative explanations for observed results	Page8/Li ne241–244	Conclusions/Paragraph1
33	Generalization of the conclusions (ie, appropriate for the data presented and within the domain of the literature review)	Page8/Li ne241–244	Conclusions/Paragraph1
34	Guidelines for future research	Page8/Li ne241–244	Conclusions/Paragraph1
35	Disclosure of funding source	Page8/Li ne248	Conclusions/Paragraph2

*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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\*As the checklist was provided upon initial submission, the page number/line number reported may be changed due to copy editing and may not be referable in the published version. In this case, the section/paragraph may be used as an alternative reference.