## MOOSE Guidelines for Meta-Analyses and Systematic Reviews of Observational Studies\*

	Topic	01
<b>T</b> :41 -	Topic	Page numb@2
Title	Identify the study as a meta-analysis (or systematic review)	03
Abstract	Use the journal's structured format Present:	04
Introduction	The clinical problem	
	The hypothesis	05
	A statement of objectives that includes the study population, the condition of interest, the exposure or	05
	intervention, and the outcome(s) considered Describe:	05
Sources	Qualifications of searchers (eg, librarians and investigators)	05-0
	Search strategy, including time period included in the synthesis and keywords	
	Effort to include all available studies, including contact with authors	05-0
	Databases and registries searched	<u>05</u> -0
	Search software used, name and version, including special features used (e.g.	05-0
	explosion) Use of hand searching (e.g, reference lists of obtained articles)	
		06
	List of citations located and those excluded, including justification Method of addressing articles published in languages other than English	06
		06
	Method of handling abstracts and unpublished studies Description of any contact with authors	00
Study Selection	Describe           Types of study designs considered	06
		06
	Relevance or appropriateness of studies gathered for assessing the hypothesis to be tested	06
	Rationale for the selection and coding of data (eg, sound clinical principles or convenience)	06
	Documentation of how data were classified and coded (eg, multiple raters, blinding, and inter-rater reliability)	07-0
	Assessment of confounding (e.g. comparability of cases and controls in studies where appropriate)	N I /
	Assessment of study quality, including blinding of quality assessors; stratification	<u>− N</u> //
	or regression on possible predictors of study results	+ 07-0
	Assessment of heterogeneity	_
	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	07-0
	cumulative meta-analysis) in sufficient detail to be replicated	07-08
Results	Present	
	A graph summarizing individual study estimates and the overall estimate	09-1
	A table giving descriptive information for each included study	09-1
	Results of sensitivity testing (eg, subgroup analysis)	
	Indication of statistical uncertainty of findings	
Discussion	Discuss	9-1
Discussion	Strengths and weaknesses	9-1
Discussion		13

10	
13-15	

	13-15
Assessment of quality of included studies	15
Consideration of alternative explanations for observed results	15
Generalization of the conclusions (ie, appropriate for the data presented and within the domain of the	15
literature review)	15
Guidelines for future research	
Disclosure of funding source	

\*Modified from Stroup DF, Berlin JA, Morton SC, Olkin I, Williamson GD, Rennie D, et al. Meta-analysis of observational studies in epidemiology: a proposal for reporting. Meta-analysis Of Observational Studies in Epidemiology (MOOSE) group. JAMA 2000;283:2008–12. Copyrighted © 2000, American Medical Association. All rights reserved.