

Type 2 Diabetes Mellitus and Risk of Community-acquired Pneumonia: A Systematic Review and Meta-analysis of Observational Studies

MOOSE Guidelines for Systematic Reviews of Observational Studies checklist

Item	Page
Title:	
Identify the study as a meta-analysis (or systematic review)	1
Abstract:	
Use the journal's structured format	3
Introduction:	
The clinical problem	4
The hypothesis	4
A statement of objectives that includes the study population, the condition of interest, the exposure or intervention, and the outcome(s) considered	4
Sources:	
Qualifications of searchers (eg, librarians and investigators)	1 and 5
Search strategy, including time period included in the synthesis and keywords	5 e-Table 2
Effort to include all available studies, including contact with authors	5-6
Databases and registries searched	5
Search software used, name and version, including special features used (eg, explosion)	5 e-Table 2
Use of hand searching (eg, reference lists of obtained articles)	5
List of citations located and those excluded, including justification	Figure 1
Method of addressing articles published in languages other than English	5
Method of handling abstracts and unpublished studies	6
Description of any contact with authors	6
Study Selection:	
Types of study designs considered	6
Relevance or appropriateness of studies gathered for assessing the hypothesis to be tested	6
Rationale for the selection and coding of data (eg, sound clinical principles or convenience)	6-7

Documentation of how data were classified and coded (eg, multiple raters, blinding, and interrater reliability)	6-7
Assessment of confounding (eg, comparability of cases and controls in studies where appropriate)	6-7
Assessment of study quality, including blinding of quality assessors; stratification or regression on possible predictors of study results	7
Assessment of heterogeneity	6-7
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	7-8
Results:	
A graph summarizing individual study estimates and the overall estimate	Figure 2
A table giving descriptive information for each included study	Table 1, Table 2, e-Table 3, e-Table 4
Results of sensitivity testing (eg, subgroup analysis)	e-Table 5 e-Figures 1 - 7
Indication of statistical uncertainty of findings	All figures and tables
Discussion:	
Strengths and weaknesses	13-14
Potential biases in the review process (eg, publication bias)	13-14
Justification for exclusion (eg, exclusion of non-English-language citations)	14
Assessment of quality of included studies	9, 10, 13, 14
Consideration of alternative explanations for observed results	12-13
Generalization of the conclusions (ie, appropriate for the data presented and within the domain of the literature review)	15
Guidelines for future research	15
Disclosure of funding source	2