

Table #. Meta-epidemiological study items checklist

Section/Topic	Item in research	Complete – Page Number
Title		
	Title Identify the report as a meta-epidemiologic study	Yes No N/A - Page 1 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Abstract		
	Structured Summary Provide a structured summary that includes the background of the topic, goal of the study, data sources, method of data selection, appraisal and synthesis methods, results, limitations, conclusions and implications of key findings	Yes No N/A - Page 3 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Introduction		
	Rationale Describe the rationale for the meta-epidemiological study in the context of what is already known	Yes No N/A - Page 4 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	Objectives Provide an explicit statement of the goal of the meta-epidemiological study and the hypothesis being empirically tested	Yes No N/A - Page 4 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Methods		
	Protocol Indicate if a protocol exists, if and where it can be accessed (eg, Web address). Registration of a protocol is not mandatory	Yes No N/A - Page <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
	Eligibility Criteria Specify study characteristics used as criteria for eligibility with a rationale	Yes No N/A - Page 6 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	Information Sources Describe all information sources (eg, databases with dates of coverage, contact with experts to identify additional studies, Internet searches) and search date	Yes No N/A - Page 9 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	Search Present full electronic search strategy for at least one database, including any limits used, such that it could be repeated. Search is commonly not driven by a clinical question	Yes No N/A - Supplement <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	Study Selection Describe the process for selecting studies for inclusion (ie, how many reviewers selected studies, reviewing in duplicate or by single individuals)	Yes No N/A - Page 7 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	Data Collection Process Describe method of data extraction from reports (eg, piloted forms, independently, in duplicate) and any processes used for manipulating data or obtaining and confirming data from investigators	Yes No N/A - Page 8 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	Data Items List and define all variables for which data were sought and any assumptions and imputations made	Yes No N/A - Page 9 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	Risk of bias in individual studies If risk of bias assessment of individual studies was relevant to the analysis, describe the items used and how this information is to be used during data synthesis	Yes No N/A <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
	Summary measures State the principal summary measures (eg, ratio of risk ratios, difference in means) and explain its meaning and direction to readers	Yes No N/A - Page 9 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	Synthesis of results Describe the statistical or descriptive methods of synthesis including measures of consistency if relevant. If applicable, describe the development of statistical or simulation modelling based on theoretical background. Describe and justify assumptions and computational approximations. Describe methods of additional analyses (eg, sensitivity or subgroup analyses, meta-regression), if done, indicating which were prespecified	Yes No N/A - Page 10 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Results		
	Study selection Give numbers of studies assessed for eligibility and included in the study, with reasons for exclusions at each stage, ideally with a flow diagram. Present a	Yes No N/A - Page 11 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

	measure of inter-reviewer agreement (eg, kappa statistic)				
Study characteristics	For each study, present characteristics for which data were extracted and provide the citations. Clinical characteristics may not always be relevant	Yes	No	N/A	- Page 11
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Risk of bias within studies	If risk of bias assessment of individual studies was used in the meta-epidemiological analysis, report risk of bias indicators of each study to allow replication of findings	Yes	No	N/A	
		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Results of individual studies	Present data elements used in the meta-epidemiological analysis from each study (results of clinical outcomes may not be relevant)	Yes	No	N/A	- Supplement
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Synthesis of results	Present results of statistical analysis done, including measures of precision and measures of consistency. Present validity of assumptions and fit of statistical or simulation modelling, if applicable	Yes	No	N/A	- Page 11
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Additional analysis	Give results of additional analyses, if done (eg, sensitivity or subgroup analyses, metaregression)	Yes	No	N/A	- Page 16
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Discussion					
Summary of evidence	Summarise the main findings and compare them with existing knowledge about the topic. The quality of evidence may not be relevant; however, investigators should describe their certainty in the results to readers	Yes	No	N/A	- Page 17
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Limitations	Discuss limitations at research methodology level (eg, likelihood of reporting or publication bias)	Yes	No	N/A	- Page 19
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Conclusions	Provide general interpretation of the results and implications for future research. Provide any plausible impact on clinical practice	Yes	No	N/A	- Page 20
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Funding					
Funding	Describe sources of funding for the methodology research and role of funders	Yes	No	N/A	- Page 2
		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Adapted from Murad and Wang (2017) (<https://ebm.bmj.com/content/ebmed/22/4/139.full.pdf>).