Checklist of Items to Include When Reporting a Systematic Review Involving a Network Meta-analysis

			Reported on Page	
041 /T1 -	Item	Oh a shilled Maria	Number/Line Number	Reported on
Section/Topic	No*	Checklist item		Section/Paragraph
TITLE				
Title	1	Identify the report as a systematic review incorporating a network meta-analysis (or related form of meta-analysis).	page 1/Line1-3	Title Page
ABSTRACT	•			
Structured summary	2	Provide a structured summary including, as applicable: Background: main objectives	page 2/Line1-28	Abstract
		Methods: data sources; study eligibility criteria, participants, and interventions; study appraisal;and synthesis		
		methods, such as network meta-analysis.		
		Results: number of studies and participants identified; summary estimates with corresponding confidence/credible intervals;		
		treatment rankings may also be discussed. Authors may choose to summarizepairwise comparisons against a chosen		
		treatment included in their analyses for brevity.		
		Discussion/Conclusions: limitations; conclusions and implications of findings. Other: primary source of funding; systematic review registration number with registry name.		
INTRODUCTION				
Rationale	3	Describe the rationale for the review in the context of what is already known, including mention ofwhy a	page3/Line2-39	Introduction/Para1-4
		network meta-analysis has been conducted.		
Objectives	4	Provide an explicit statement of questions being addressed, with reference to participants, interventions, comparisons,	page3/Line33-39	Introduction/Para4
		outcomes, and study design (PICOS).		
METHODS				
Protocol and	5	Indicate whether a review protocol exists and if and where it can be accessed (e.g., Web address);and, if	Page4/Line 2-6	Methods/Para1
registration		available, provide registration information, including registration number.		
Eligibility criteria	6	Specify study characteristics (e.g., PICOS, length of follow-up) and report characteristics (e.g., years considered,language,	Page4/Line 21-37	Methods/Para3
		publication status) used as criteria for eligibility, giving rationale. Clearly describe eligible treatments included in the treatment	Page5/Line 1-5	
		network, and note whether any have been clusteredor merged into the same node (with justification).		
Information sources	7		Page4/Line 9-13	Methods/Para2
miorination Sources	'	Describe all information sources (e.g., databases with dates of coverage, contact with study authors to identify		
		additional studies) in the search and date last searched.		

Search	8	Present full electronic search strategy for at least one database, including any limits used, such thatit could be repeated.	Page4/Line 13-19	Methods/Para2
Study selection	9	State the process for selecting studies (i.e., screening, eligibility, included in systematic review, and, if applicable, included in the meta-analysis).	Page5/Line 8-15	Methods/Para4
Data collection process	10	Describe method of data extraction from reports (e.g., piloted forms, independently, in duplicate)and any processes for obtaining and confirming data from investigators.	Page5/Line 16-26	Methods/Para4
Data items	11	List and define all variables for which data were sought (e.g., PICOS, funding sources) and anyassumptions and simplifications made.	Page5/Line 17-23	Methods/Para4
Geometry of the network	S1	Describe methods used to explore the geometry of the treatment network under study and potential biases related to it. This should include how the evidence base has been graphically summarized for presentation, andwhat characteristics were compiled and used to describe the evidence base to readers.	Page4-6	Methods
Risk of bias within individual studies	12	Describe methods used for assessing risk of bias of individual studies (including specification of whether this was done at the study or outcome level), and how this information is to be used in any datasynthesis.	Page5/Line28-34	Methods/Para5
Summary measures	13	State the principal summary measures (e.g., risk ratio, difference in means). Also describe the use of additional summary measures assessed, such as treatment rankings and surface under the cumulative ranking curve (SUCRA) values, as well as modified approaches used to present summary findings from meta-analyses.	Page5/Line36-43 Page6/Line1-14	Methods/Para6
Planned methods of analysis	14	Describe the methods of handling data and combining results of studies for each network meta-analysis. This should include, but not be limited to: Handling of multigroup trials; Selection of variance structure; Selection of prior distributions in Bayesian analyses; and Assessment of model fit.	Page5/Line42-43 Page6/Line1-14	Methods/Para6
Assessment of inconsistency	S2	Describe the statistical methods used to evaluate the agreement of direct and indirect evidence inthe treatment network(s) studied. Describe efforts taken to address its presence when found.	Page6/Line11-14	Methods/Para6

Risk of bias across	15	Specify any assessment of risk of bias that may affect the cumulative evidence (e.g., publicationbias, selective reporting within studies).	Page6/Line13-14	Methods/Para6
Additional analyses	16	Describe methods of additional analyses if done, indicating which were prespecified. This may include, but notbe limited to, the following:	Methods/Para12-14	Methods/Para6
		Sensitivity or subgroup analyses;Meta- regression analyses; Alternative formulations of the treatment network; and Use of alternative prior distributions for Bayesian analyses (if applicable).		

RESULTS‡				
Study selection	17	Give numbers of studies screened, assessed for eligibility, and included in the review, withreasons for exclusions at each stage, ideally with a flow diagram.	Page7/Line1-6	Results/Para1
Presentation of network structure	S 3	Provide a network graph of the included studies to enable visualization of the geometry of thetreatment network.	Page7/Line14-15	Results/Para2
Summary of network geometry	S4	Provide a brief overview of characteristics of the treatment network. This may include commentary on the abundance of trials and randomized patients for the different interventions and pairwise comparisons in the network, gaps of evidence in the treatment network, and potential biases reflected by the network structure.	Page7/Line15-21 Page8/Line14-43	Results/Para2 Results/Para7-8
Study characteristics	18	For each study, present characteristics for which data were extracted (e.g., study size, PICOS, follow-up period) and provide the citations.	Page7/Line9-14	Results/Para2
Risk of bias within studies	19	Present data on risk of bias of each study and, if available, any outcome level assessment.	Page7/Line24-33	Results/Para3
Results of individual studies	20	For all outcomes considered (benefits or harms), present, for each study: 1) simple summary datafor each intervention group, and 2) effect estimates and confidence intervals. <i>Modified approaches may be needed to deal with information from larger networks</i> .	Page7/Line36- 44 Page8/Line1-44	Results/Para4-7
Synthesis of results	21	Present results of each meta-analysis done, including confidence/credible intervals. In larger networks, authors may focus on comparisons versus a particular comparator (e.g., placebo or standard care), with full findings presented in an appendix. League tables and forest plots may be considered to summarize pairwise comparisons. If additional summary measures were explored (such as treatment rankings), these shouldalso be presented.	Page8/Line14-44 Page9/Line1-7	Results/Para6-8
Exploration for inconsistency	\$5	Describe results from investigations of inconsistency. This may include such information as measures of model fit to compare consistency and inconsistency models, P values from statistical tests, or summary of inconsistency estimates from different parts of the treatment network.	Page9/Line10-23	Results/Para9-10
Risk of bias across studies	22	Present results of any assessment of risk of bias across studies for the evidence base beingstudied.	Page9/Line37-38 Appendix5	Results/Para12 Appendix 5
Results of additional analyses	23	Give results of additional analyses, if done (e.g., sensitivity or subgroup analyses, meta-regression analyses, alternative network geometries studied, alternative choice of prior distributions for Bayesian analyses, and soforth).	Page9/Line25-38 Appendix 4	Results/Para11-12 Appendix 4

DISCUSSION					
Summary of evidence	24	Summarize the main findings, including the strength of evidence for each main outcome; considertheir	Page10/Line1-44 Page11/Line1-21	Discussion/Para1-5	
		relevance to key groups (e.g., health care providers, researchers, and policymakers).			
Limitations	25	Discuss limitations at study and outcome level (e.g., risk of bias), and at review level (e.g., incomplete retrievalof	Page11/Line22-31	Discussion/Para6	
		identified research, reporting bias). Comment on the validity of the assumptions, such as transitivity and consistency.			
		Comment on any concerns regarding network geometry (e.g., avoidance of certain comparisons).			
Conclusions	26	Provide a general interpretation of the results in the context of other evidence, and implications for futureresearch.	Page11/Line32-39	Discussion/Para7	
FUNDING					
Funding	27	Describe sources of funding for the systematic review and other support (e.g., supply of data); role of funders for the	Page11/Line40-44	Acknowledgments	
		systematic review. This should also include information regarding whether funding has been received from			
		manufacturers of treatments in the network and/or whether some of the authors are content experts withprofessional			
		conflicts of interest that could affect use of treatments in the network.			

^{*} Boldface indicates new items to this checklist.

- † Text in italics indicates wording specific to reporting of network meta-analyses that has been added to guidance from the PRISMA statement.
- ‡ Authors may wish to plan for use of appendices to present all relevant information in full detail for items in this section.

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