Appendix C. Data Extraction Tool for Part Two

Study identification

Unique ID		**First author last name, year**	
# authors		**In there a methodologist listed as an author?**	☐ Yes ☐ No
Journal Name		**Journal impact factor**	
Is the journal classified as a methods journal? ☐ Yes ☐ No		**Does journal allow online supplement/ appendix?** ☐ Yes ☐ No	
Was there a published appendix or online supplement? ☐ Yes ☐ No		**Does the journal impose a word/table/figure limit?** Word: ☐ Yes ☐ No Table/figure: ☐ Yes ☐ No If yes, what is the limit:	
Geographic location of conduction?		**# printed pages in main document**	
Funding Source: ☐ Industry ☐ Government/Foundation ☐ Academia ☐ Other ☐Unknown			
Publication type: ☐ Full text journal article ☐Report (government, etc) ☐ Other			
Work affiliated with an agency? (ex. AHRQ, NICE, Cochrane, etc.) ☐ Yes ☐ No If yes, which agency:			
What terms were used to describe the indirect comparison? ☐ Network meta-analysis ☐ Mixed treatment comparison ☐Multiple treatment comparison ☐ Other (i.e., simply by reference(s) used; exact terms):			

Study characteristics

Study objective:	 Was it clear how the research question pertains to a network meta-analysis? ☐ Yes ☐ No
Disease state evaluated	☐ Endocrinology ☐ Behavioral health ☐ Cardiology ☐ Oncology ☐ Pain ☐ Substance abuse ☐ Respiratory ☐ Infectious disease ☐Rheumatology ☐ Gastroenterology ☐ Neurology ☐ Other:
Methodological inclusion criteria?	
What network pattern was present? ☐ simple star ☐ star ☐ ladder ☐closed loop ☐network with at least one closed loop **Was a diagram displayed to show the network?** ☐ Yes ☐ No	
#and type of interventions compared? (e.g device, procedure, pharmacologic, behavioral, other)	

# of trials / # patients included in analysis:	

Methods Characteristics

Method/model applied:☐ Bayesian ☐ Frequentist
Was traditional pair-wise meta-analysis also conducted? ☐ Yes ☐ No

For Bayesian networks

Model (all that apply): ☐ Fixed-effects ☐ Random-effects ☐ Adjustment of model for studies with ≥3 treatments? ☐Evaluation on the dependence of treatment effect on a co-variate (adjustment) performed?
Software used (including wrappers):   **Was the code published in the main manuscript?**☐ Yes ☐ No If no, was the code made available to the reader?☐ Yes ☐ No If it was made available to the reader, in what format? ☐ online supplement   ☐ referral to another website/source   ☐email author   ☐ other: If email author, were we able to obtain the code for this project? ☐ Yes ☐ No **Was the raw data published in the main manuscript?**☐ Yes ☐ No If no, was the raw data made available to the reader? ☐ Yes ☐ No If it was made available to the reader, in what format? ☐ online supplement   ☐ referral to another website/source   ☐email author   ☐ other: If email author, were we able to obtain the raw data for this project? ☐ Yes ☐ No
Was Markov-chain Monte Carlo modeling used?☐ Yes ☐ No If no, what sampling method was used? Were the starting value(s) reported (this can be obtained from provided code)? ☐ Yes ☐ No Number of chains: Number of iterations per chain: Number of iterations used for final results (after excluding burn-in): Were convergence statistics evaluated? ☐ Yes ☐ No
Were prior distributions specified anywhere in the paper? (this can be obtained from provided code) ☐ Yes ☐ No If yes, what distribution was used for "D" and "σ" [often $N(0, 10^6)$ for D and Uniform(0, 2) for σ] (this can be obtained from provided code)? **Were prior distributions justified in the paper?**☐ Yes ☐ No ☐ NA if not specified **Was sensitivity analysis performed based on prior distribution chosen?**☐ Yes ☐ No If yes, what was the distribution changed to?
Was a graphical representation of the posterior distribution provided?

☐ Yes ☐ No
Do the authors rank order the efficacy and/or safety of different interventions compared? ☐ Yes ☐ No
Was model fit tested (i.e., sum deviation, residual deviation, DIC)? ☐ Yes ☐ No If so, which was used?
Was a description of how possible heterogeneity was evaluated (either qualitative or quantitative, e.g., I^2, Cochrane Q, etc.) provided? ☐ Yes ☐ No If yes, how? ☐ traditional meta-analysis, how: ☐ network meta-analysis, how:
Was a description of how possible inconsistency was evaluated (either qualitative or quantitative, e.g., comparison of direct evidence with the indirect evidence) provided? ☐ Yes ☐ No
Does the analysis try to make a claim of: **Equivalence** ☐ Yes ☐ No   **Non-inferiority?** ☐ Yes ☐ No
Was there an *a priori* decision rule/minimally important difference described? ☐ Yes ☐ No

For Frequentist networks

Model (all that apply): ☐ Fixed-effects ☐ Random-effects ☐ Evaluation on the dependence of treatment effect on a co-variate (adjustment) performed?
Software used: **Was the raw data published in the main manuscript?** ☐ Yes ☐ No If no, was the raw data made available to the reader? ☐ Yes ☐ No If it was made available to the reader, in what format? ☐ online supplement   ☐ referral to another website/source   ☐ email author   ☐ other: If email author, were we able to obtain the raw data for this project? ☐ Yes ☐ No
Was a Linear Mixed Model Used? ☐ Yes ☐ No If no, how was the model fit? How were studies weighted (inverse variance, inverse sample size etc?):
Was a description of how possible heterogeneity was evaluated (either qualitative or quantitative, e.g., I^2, Cochrane Q, etc.) provided? ☐ Yes ☐ No If yes, how? ☐ traditional meta-analysis, how: ☐ network meta-analysis, how:
Was a description of how possible inconsistency was evaluated (either qualitative or quantitative, e.g., comparison of direct evidence with the indirect evidence) provided? ☐ Yes ☐ No

Does the analysis try to make a claim of:
Equivalence ☐ Yes ☐ No **Non-inferiority?**☐ Yes ☐ No
Was there an *a priori* decision rule/minimally important difference described? ☐ Yes ☐ No

Posterior Distribution

Outcome 1:
☐ Binary ☐ Continuous ☐ Categorical non binary
Is this outcome effect measure reported as mean or median data? ☐ Mean ☐ Median ☐ NR
Format presented: ☐ Text ☐ Table ☐ Figure
Effect size measured:☐ Relative risk ☐ Odds ratio ☐ Risk difference ☐ Weighted-mean difference ☐ Other:
Measure of variance: ☐ Credible interval, if yes ☐99% ☐95% ☐SD ☐ Other:

Outcome 2:
☐ Binary ☐ Continuous ☐ Categorical non binary
Is this outcome effect measure reported as mean or median data? ☐ Mean ☐ Median ☐ NR
Format presented: ☐ Text ☐ Table ☐ Figure
Effect size measured:☐ Relative risk ☐ Odds ratio ☐ Risk difference ☐ Weighted-mean difference ☐ Other:
Measure of variance: ☐ Credible interval, if yes ☐99% ☐95% ☐SD ☐ Other:

Outcome 3:
☐ Binary ☐ Continuous ☐ Categorical non binary
Is this outcome effect measure reported as mean or median data? ☐ Mean ☐ Median ☐ NR
Format presented: ☐ Text ☐ Table ☐ Figure
Effect size measured:☐ Relative risk ☐ Odds ratio ☐ Risk difference ☐ Weighted-mean difference ☐ Other:
Measure of variance: ☐ Credible interval, if yes ☐99% ☐95% ☐SD ☐ Other:

Outcome 4:
☐ Binary ☐ Continuous ☐ Categorical non binary
Is this outcome effect measure reported as mean or median data? ☐ Mean ☐ Median ☐ NR
Format presented: ☐ Text ☐ Table ☐ Figure
Effect size measured:☐ Relative risk ☐ Odds ratio ☐ Risk difference ☐ Weighted-mean difference ☐ Other:
Measure of variance: ☐ Credible interval, if yes ☐99% ☐95% ☐SD ☐ Other: