Checklist Table. Mark ✓ to indicate that the issue has been addressed satisfactorily, and ≭ if there is any cause for concern on the item. The Comments column should be used to answer the question (YES, NO, NA: not applicable) and/or to spell out the reasons for any concerns, the need for sensitivity analyses etc.

		Item	Comments
		satisfactory?	
A. DE	CFINITION OF THE DECISION PROBLEM		
A1. T	arget population for decision		
A1.1	Has the target patient population for decision been clearly defined?		
A2. C	omparators		
A2.1	Decision Comparator Set: Have all the appropriate treatments in the decision been identified?		
A2.2	Synthesis Comparator Set: Are there additional treatments in the Synthesis Comparator Set,		
	which are not in the Decision Comparator Set? If so, is this adequately justified?		
A3 Tr	ial inclusion / exclusion		
A3.1	Is the search strategy technically adequate and appropriately reported?		
A3.2	Have all trials involving at least two of the treatments in the Synthesis Comparator Set been		
	included?		
A3.3	Have all trials reporting relevant outcomes been included?		

		Item	Comments
		satisfactory?	
A3.4	Have additional trials been included? If so, is this adequately justified?		
A4 Tr	reatment Definition		
A4.1	Are all the treatment options restricted to specific doses and co-treatments, or have different		
	doses and co-treatments been "lumped" together? If the latter, is it adequately justified?		
A4.2	Are there any additional modelling assumptions?		
A5 Trial outcomes and scale of measurement chosen for the synthesis			
A5.1	Where alternative outcomes are available, has the choice of outcome measure used in the		
	synthesis been justified?		
A5.2	Have the assumptions behind the choice of scale been justified?		
A6 Patient population: trials with patients outside the target population			
A6.1	Do some trials include patients outside the target population? If so, is this adequately		
	justified?		
A6.2	What assumptions are made about the impact, or lack of impact this may have on the relative		
	treatment effects? Are they adequately justified?		
46.3	Has an adjustment been made to account for these differences? If so comment on the		
A0.3	This in augustment been made to account for these augretences: If so, comment on the		
	adequacy of the evidence presented in support of this adjustment, and on the need for a		
	sensitivity analysis.		
A7 Patient population: heterogeneity within the target population			
A7.1	Has there been a review of the literature concerning potential modifiers of treatment effect?		
A7.2	Are there apparent or potential differences between trials in their patient populations, albeit		

		Item	Comments
	within the target non-dation? If so has this been adequately taken into account?	satisfactory?	
	within the target population? If so, has this been adequately taken this account?		
A8 Ri	sk of Bias		
A8.1	Is there a discussion of the biases to which these trials, or this ensemble of trials, are		
	vulnerable?		
A8.2	If a bias risk was identified, was any adjustment made to the analysis and was this adequately		
	justified?		
A9. P	resentation of the data		
A9.1	Is there a clear table or diagram showing which data have been included in the base-case		
	analysis?		
A9.2	Is there a clear table or diagram showing which data have been excluded and why?		
B. MI	ETHODS OF ANALYSIS AND PRESENTATION OF RESULTS		
B1 M	eta-analytic methods		
<i>B1.1</i>	Is the statistical model clearly described?		
<i>B1.2</i>	Has the software implementation been documented?		
B2. Heterogeneity in the relative treatment effects			
<i>B2.1</i>	Have numerical estimates been provided of the degree of heterogeneity in the relative		
	treatment effects?		
<i>B2.2</i>	Has a justification been given for choice of random or fixed effect models? Should sensitivity		
	analyses be considered?		
<i>B2.3</i>	Has there been adequate response to heterogeneity?		
<i>B2.4</i>	Does the extent of unexplained variation in relative treatment effects threaten the robustness of		

		Item	Comments	
	conclusions?	satisfactory?		
B2.5	Has the statistical heterogeneity between baseline arms been discussed?			
B3 B	iseline model for trial outcomes			
<i>B3.1</i>	Are baseline effects and relative effects estimated in the same model? If so, has this been			
	justified?			
<i>B3.2</i>	Has the choice of studies to inform the baseline model been explained?			
B4 Pi	resentation of results of analyses of trial data			
<i>B4.1</i>	Are the relative treatment effects (relative to a placebo or "standard" comparator) tabulated,			
	alongside measures of between-study heterogeneity if a RE model is used?			
<i>B4.2</i>	Are the absolute effects on each treatment, as they are used in the CEA, reported?			
B5 S J	nthesis in other parts of the natural history model			
<i>B5.1</i>	Is the choice of data sources to inform the other parameters in the natural history model			
	adequately described and justified?			
B5.2	In the natural history model, can the longer-term differences between treatments be explained			
	by their differences on randomised trial outcomes?			
C. IS	SUES SPECIFIC TO NETWORK SYNTHESIS			
C1 Adequacy of information on model specification and software implementation				
C2. Multi-arm trials				
C2.1	If there are multi-arm trials, have the correlations between the relative treatment effects been			
	taken into account?			
C3 Connected and disconnected networks				

		Item satisfactory?	Comments
<i>C3.1</i>	Is the network of evidence based on randomised trials connected?	suisidetoi y :	
C4 Inc	consistency		
<i>C4.1</i>	How many inconsistencies could there be in the network?		
<i>C4.2</i>	Are there any a priori reasons for concern that inconsistency might exist, due to systematic		
	clinical differences between the patients in trials comparing treatments A and B, and the		
	patients in trials comparing treatments A and C, etc?		
<i>C4.3</i>	Have adequate checks for inconsistency been made?		
<i>C4.4</i>	If inconsistency was detected, what adjustments were made to the analysis, and how was this		
	justified?		
D EMBEDDING THE SYNTHESIS IN A PROBABILISTIC COST EFFECTIVENESS ANALYSIS			
D1. Uncertainty Propagation			
D1.1	Has the uncertainty in parameter estimates been propagated through the CEA model?		
D2 Correlations			
D2.1	Are there correlations between parameters? If so, have the correlations been propagated		
	through the CEA model?		