## Supplement 2. Modified AMSTAR 2 questionnaire.

This supplement provides the modified version of the AMSTAR 2 questionnaire that was used to assess the methodological quality of systematic reviews. Please refer to the following publication for the original AMSTAR 2 tool: Shea BJ, Reeves BC, Wells G, Thuku M, Hamel C, Moran J, Moher D, Tugwell P, Welch V, Kristjansson E, Henry DA: AMSTAR 2: a critical appraisal tool for systematic reviews that include randomised or non-randomised studies of healthcare interventions, or both. BMJ 2017;358:j4008.

1. Did the research questions and inclusion criteria for the review include the components of PICO?				
For Yes, ALL	the following:			
	Population		Yes	
	Intervention		No	
	Comparator group			
	Outcome			
2. Did the report of the review contain an explicit statement that the review methods were established prior to the conduct of the review and did the report justify any significant deviations from the protocol?				
For Yes:				
The authors s following:	tate that they had a written protocol or guide that includes	; ALL	the	
	review question(s)		Yes	
	a search strategy		No	
	inclusion/exclusion criteria			
	a risk of bias assessment			
3. Did the re	view authors use a comprehensive literature search st	ratec	<u>lV?</u>	
For Yes. ALL	the following:			
	searched at least two databases		Yes	
	(relevant to research question)		No	
	provided key word and/or search strategy			
4. Did the review authors perform study selection in duplicate?				
For Yes, eithe	er ONE of the following:			
	at least two reviewers independently agreed on		Yes	
	selection of eligible studies and achieved consensus		No	
	on which studies to include			
	OR two reviewers selected a sample of eligible studies <u>and</u> achieved good agreement (at least 80 percent), with the remainder selected by one reviewer			

5. Did the review authors perform data extraction in duplicate?		
For Yes, either ONE of the following:		
$\Box$ at least two reviewers achieved consensus on which		Yes
data to extract from included studies		No
$\Box$ OR two reviewers selected a sample of eligible		
studies <u>and</u> achieved good agreement (at least 80 percent), with the remainder selected by one reviewer		
percent), with the remainder selected by one reviewer		
6. <u>Did the review authors provide a list of excluded studies and ju</u> exclusions?	<u>ıstify t</u>	<u>he</u>
For Yes:		
$\Box$ Provided a flow chart showing the number of		Yes
excluded studies and reasons for exclusion. A study- specific list is not required.		No
7. Did the review authors describe the included studies in adequ	ate det	ail?
For Yes, ALL the following:		
described population		Yes
described interventions		No
described comparators		
described outcomes		
described research designs		
8. Did the review authors use a satisfactory technique for assess	ina the	erisk of bias
(RoB) in individual studies that were included in the review?		
For Yes:		
$\Box$ A tool was used to evaluate the risk of bias of		Yes
included studies		No
9. If meta-analysis was performed did the review authors use app	ropria	te methods
for statistical combination of results?		
For Yes:		
Statistical heterogeneity between trial results was		Yes
assessed and the results are provided		No
		No meta- analysis conducted

10. Did the review authors account for RoB in individual studies w interpreting/discussing the results of the review?	hen			
For Yes:				
Study quality is considered in the discussion and		Yes		
interpretation		No		
11. Did the review authors provide a satisfactory explanation for, and discussion of, any heterogeneity observed in the results of the review?				
For Yes, either ONE of the following:				
$\Box$ There was no significant heterogeneity in the results		Yes		
$\Box$ OD if betarageneity was present the system.		No		
<ul> <li>OR if heterogeneity was present the authors performed an investigation of sources of any</li> </ul>		No meta-		
heterogeneity in the results and discussed the impact		analysis		
of this on the results of the review		conducted		
12. If they performed quantitative synthesis did the review author		rry out an		
adequate investigation of publication bias (small study bias)	?			
For Yes:				
Performed graphical or statistical tests for publication		Yes		
bias or an adequate reason is provided for not performing a test.		No		
performing a test.		No meta-		
		analysis		
13. Did the review authors discuss the likely impact of publication	a biac	conducted		
results of the review?	I DIAS	Son the		
For Yes, either ONE of the following:				
There was no significant publication bias		Yes		
OR if publication bias was present the authors		No		
discussed the likelihood and magnitude of impact of		No meta-		
publication bias on the results of the review		analysis		
14. Did the review authors report any potential sources of conflict	of int	conducted		
including any funding they received for conducting the review		,		
For Yes, either ONE of the following:				
The authors reported no competing interests		Yes		
OP The authors described their funding sources and		No		
<ul> <li>OR The authors described their funding sources and how they managed potential conflicts of interest</li> </ul>				

Critical assessment items are underlined.

Overall rating
Critical weakness(es):
Non-critical weakness(es):
Rating overall confidence in the results of the review: