	AMSTAR Checklist Article Name:		AMSTAR 2: a critical appraisal tool for systematic reviews that include randomised or nonrandomised studies of healthcare interventions, or both			
	1. Did the research questions and inclusion criteria for the review include the components of PICO?					
	For Yes:	Optional (recommended)				
	Population	Timeframe for follow up	Yes			
	Intervention		□ No			
П	Comparator group					
	Outcome					
	2. Did the report of the review contain an explicit sta prior to the conduct of the review and did the repor					
	For Partial Yes:	For Yes:				
	The authors state that they had a written protocol or	As for partial yes, plus the protocol should be				
П	guide that included ALL the following: review question(s)	registered and should also have specified: a meta-analysis/synthesis plan, if appropriate, <i>and</i>	TYes			
_		a plan for investigating causes of heterogeneity	Partial Yes			
Ξ	inclusion/exclusion criteria	a plan for investigating causes of heterogeneity	□ No			
Ξ	a risk of bias assessment					
-						
	3. Did the review authors explain their selection of the study designs for inclusion in the review?					
	For Yes, the review should satisfy ONE of the followin	g:				
	Explanation for including only RCTs		Yes			
	OR Explanation for including only NRSI		No			
	OR Explanation for including both RCTs and NRSI					
	4. Did the review authors use a comprehensive literature search strategy?					
	For Partial Yes (all the following):	For Yes, should also have (all the following):				
	searched at least 2 databases (relevant to research question)	☐ searched the reference lists / bibliographies of included studies	Yes			
П	. /	searched trial/study registries	Partial Yes			
_		included/consulted content experts in the field	□ No			
		where relevant, searched for grey literature				
	Ì	conducted search within 24 months of completion of				
		the review				
	5. Did the review authors perform study selection in duplicate?					
	For Yes, either ONE of the following:					
	studies to include	Yes				
	OR two reviewers selected a sample of eligible studies the remainder selected by one reviewer.	No				
	6. Did the review authors perform data extraction in	n duplicate?				
	at least two reviewers achieved consensus on which da	Yes				
	OR two reviewers extracted data from a sample of eligit (at least 80 percent), with the remainder extracted by or	No				

7 Did the review authors provide a list of exclude	d studies and justify the exclusions?				
7. Did the review authors provide a list of excluded studies and justify the exclusions?					
For Partial Yes: For Yes, must also have: provided a list of all potentially relevant studies that					
were read in full-text form but excluded from the review	Justified the exclusion from the review of each potentially relevant study	Yes			
IEVIEW		Partial Yes			
		No No			
8. Did the review authors describe the included st	. Did the review authors describe the included studies in adequate detail?				
For Partial Yes (ALL the following):	For Yes, should also have ALL the following:				
described populations	described population in detail	T Yes			
described interventions	described intervention in detail (including doses	Partial Yes			
	described comparator in detail (including doses				
described comparators	where relevant)	L No			
described outcomes	described study's setting				
described research designs	timeframe for follow-up				
9. Did the review authors use a satisfactory techni studies that were included in the review?	que for assessing the risk of bias (RoB) in individual				
RCTs					
	For Vac. must also have accessed DoD from:				
For Partial Yes, must have assessed RoB from unconcealed allocation, <i>and</i>	For Yes, must also have assessed RoB from: allocation sequence that was not truly random, <i>and</i>	T Yes			
lack of blinding of patients and assessors when					
assessing outcomes (unnecessary for objective outcomes such as all-cause mortality)	selection of the reported result from among multiple measurements or analyses of a specified outcome	Partial Yes			
· · · · · · · · · · · · · · · · · · ·		No			
NRSI		Includes only NRSI			
For Partial Yes, must have assessed RoB:	For Yes, must also have assessed RoB:				
from confounding, and	$\square$ methods used to ascertain exposures and outcomes, and	Yes			
from selection bias	selection of the reported result from among multiple measurements or analyses of a specified outcome	Partial Yes			
	— measurements of analyses of a specified outcome	No			
		Includes only NRSI			
10. Did the review authors report on the sources of funding for the studies included in the review?					
					For Yes
Must have reported on the sources of funding for ind Reporting that the reviewers looked for this informat		TYes			
also qualifies	ion out it was not reported by study autions	_			
		No			
11. If meta-analysis was performed did the review authors use appropriate methods for statistical combination of results?					
					DOT
RCTs					
For Yes: The authors justified combining the data in a meta-ar	nalvsis	T Yes			
AND they used an appropriate weighted technique to					
AND investigated the causes of any heterogeneity		No No meta-analysis conducted			
- The investigated the earlies of any neterogeneity					
For NRSI					
For Yes:					
The authors justified combining the data in a meta-ar	Yes				
AND they used an appropriate weighted technique to if present	No				

AND they statistically combined effect estimates from NRSI that were adjusted for confounding, rather than combining raw data, or justified combining raw data when adjusted effect estimates were not available	No meta-analysis conducted
AND they reported separate summary estimates for RCTs and NRSI separately when both were included in the review	
12. If meta-analysis was performed, did the review authors assess the potential impact of RoB in individual studies on the results of the meta-analysis or other evidence synthesis?	
For Yes:	
included only low risk of bias RCTs	Yes
OR, if the pooled estimate was based on RCTs and/or NRSI at variable RoB, the authors performed analyses to investigate possible impact of RoB on summary estimates of effect.	No
analyses to investigate possible impact of Rob on summary estimates of criect.	No meta-analysis conducted
13. Did the review authors account for RoB in individual studies when interpreting/ discussing the results of the review?	
For Yes:	
included only low risk of bias RCTs	Yes
OR, if RCTs with moderate or high RoB, or NRSI were included the review provided a discussion of the likely impact of RoB on the results	No
14. Did the review authors provide a satisfactory explanation for, and discussion of, any heterogeneity observed in the results of the review?	
For Yes:	
There was no significant heterogeneity in the results	Yes
OR if heterogeneity was present the authors performed an investigation of sources of any heterogeneity in the results and discussed the impact of this on the results of the review	No
15. If they performed quantitative synthesis did the review authors carry out an adequate investigation of publication bias (small study bias) and discuss its likely impact on the results of the review?	
For Yes:	
performed graphical or statistical tests for publication bias and discussed the likelihood and magnitude of impact of publication bias	Yes
of impact of publication bias	
	No meta-analysis conducted
16. Did the review authors report any potential sources of conflict of interest, including any funding they received for conducting the review?	
For Yes:	
The authors reported no competing interests OR	Yes
The authors described their funding sources and how they managed potential conflicts of interest	□ No

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AMSTAR Checklist

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