AMSTAR 2: a critical appraisal tool for systematic reviews that include randomised or non-randomised studies of healthcare interventions, or both

For Yes:	Optional (recommended) □ Timeframe for follow-up		Yes
group			No
2. Outcome 2. Did the report of the review co	ontain an explicit statement that the review et of the review and did the report justify a	methoony sign	ls were ificant deviations
For Partial Yes: The authors state that they had a written protocol or guide that included ALL the following:	For Yes: As for partial yes, plus the protocol should be registered and should also have specified:		
 □* review question(s) □* a search strategy □* inclusion/exclusion criteria □ a risk of bias assessment 	 a meta-analysis/synthesis plan, if appropriate, and a plan for investigating causes of heterogeneity justification for any deviations from the protocol 		Yes Partial Yes No
3. Did the review authors explain	their selection of the study designs for incl	usion i	n the review?
For Yes, the review should satisfy ONE of Explanation for including only Form OR Explanation for including or OR Explanation for including both Line Teview authors use a control of the review authors use a c	RCTs nly NRSI	 * * 	Yes No Yes Partial Yes No
5. Did the review authors perform	 * where relevant, searched for grey literature * conducted search within 24 months of completion of the review 		
For Yes, either ONE of the following:	-		
and achieved consensus on which OR two reviewers selected a san	antly agreed on selection of eligible studies h studies to include apple of eligible studies and achieved good with the remainder selected by one	_*	Yes No

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6 Did the neview outhous newform	n data autuaction in dunlicate?	
6. Did the review authors perform	n data extraction in duplicate:	
included studies □ * OR two reviewers extracted data	from a sample of eligible studies and st 80 percent), with the remainder	□* Yes □ No
7. Did the review authors provide	e a list of excluded studies and justify the ex	xclusions?
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☐ Partial Yes☐* No
8. Did the review authors describ	e the included studies in adequate detail?	
For Partial Yes (ALL the following):	For Yes, should also have ALL the following:	
 *described populations *described interventions *described comparators *described outcomes described research designs 	 described population in detail described intervention in detail (including doses where relevant) described comparator in detail (including doses where relevant) described study's setting timeframe for follow-up 	☐ Yes ☐* Partial Yes ☐ No
9. Did the review authors use a sa individual studies that were inc	ntisfactory technique for assessing the risk cluded in the review?	of bias (RoB) in
RCTs For Partial Yes, must have assessed RoB from	For Yes, must also have assessed RoB from:	
unconcealed allocation, and lack of blinding of patients and assessors when assessing outcomes (unnecessary for objective outcomes such as all- cause mortality)	 allocation sequence that was not truly random, and selection of the reported result from among multiple measurements or analyses of a specified outcome 	 ☐ Yes ☐ Partial Yes ☐* No ☐ Includes only NRSI
NRSI For Partial Yes, must have assessed RoB: from confounding, and from selection bias	For Yes, must also have assessed RoB: methods used to ascertain exposures and outcomes, and selection of the reported result from among multiple measurements or analyses of a specified outcome	 ☐ Yes ☐ Partial Yes ☐ *No ☐ Includes only RCTs
10. Did the review authors report	on the sources of funding for the studies in	cluded in the review?
	rces of funding for individual studies included g that the reviewers looked for this information y authors also qualifies	

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11. If meta-analysis was performed did the review authors use appropriate methods for statistical combination of results?		
RCTs		
For Yes:	□ *	Vac
The authors justified combining the data in a meta-analysis	□ *	Yes No
AND they used an appropriate weighted technique to combine	_*	
study results and adjusted for heterogeneity if present.		No meta-analysis conducted
AND investigated the causes of any heterogeneity		Conducted
For NRSI For Yes:		
☐ The authors justified combining the data in a meta-analysis	_*	Yes
☐ AND they used an appropriate weighted technique to combine	*	No
study results, adjusting for heterogeneity if present	_*	No meta-analysis
☐ AND they statistically combined effect estimates from NRSI that		conducted
were adjusted for confounding, rather than combining raw data,		
or justified combining raw data when adjusted effect estimates		
were not available		
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 poter individual studies on the results of the meta-analysis or other evidence s		
For Yes:		
☐ included only low risk of bias RCTs		Yes
☐ OR, if the pooled estimate was based on RCTs and/or NRSI at variable		* No
RoB, the authors performed analyses to investigate possible impact of		
RoB on summary estimates of effect.		conducted
13. Did the review authors account for RoB in individual studies when into results of the review?	erpreti	ng/ discussing the
For Yes:		
☐ included only low risk of bias RCTs		Yes
☐ OR, if RCTs with moderate or high RoB, or NRSI were included the		* No
review provided a discussion of the likely impact of RoB on the results		
14. Did the review authors provide a satisfactory explanation for, and disc heterogeneity observed in the results of the review?	cussion	of, any
For Yes:		
□ * There was no significant heterogeneity in the results		
OR if heterogeneity was present the authors performed an investigation of		¹* Yes
sources of any heterogeneity in the results and discussed the impact of this on the results of the review		No No
15. If they performed quantitative synthesis did the review authors carry of investigation of publication bias (small study bias) and discuss its likely the review?		
For Yes:		
□* performed graphical or statistical tests for publication bias and discussed		* Yes
the likelihood and magnitude of impact of publication bias		_ 1.0
		conducted

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16. Did the review authors report any potential sources of conflict of interest, including any funding they received for conducting the review?				
For Ye	s:			
	The authors reported no competing interests OR	*□ Yes		
	The authors described their funding sources and how they managed	□ No		
	potential conflicts of interest			

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