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)		
☑Population ☑Intervention ☑Comparator group	☑Timeframe for follow-up		Yes No
<u>⊠O</u> utcome			
	ntain an explicit statement that the review t of the review and did the report justify ar		
For Partial Yes:	For Yes:		
The authors state that they had a written protocol or guide that included ALL the following:	As for partial yes, plus the protocol should be registered and should also have specified:		
			Yes
\square review question(s)	a meta-analysis/synthesis plan, if appropriate, <i>and</i>	\checkmark	Partial Yes No
⊠a search strategy ⊠inclusion/exclusion criteria	a plan for investigating causes		NO
\square a risk of bias assessment	of heterogeneity		
	justification for any deviations from the protocol		
3. Did the review authors explain	their selection of the study designs for inclu-	usion ii	n the review?
For Yes, the review should satisfy ONE o	-		
<i>Explanation for</i> including only R OR <i>Explanation for</i> including on		\checkmark	Yes No
OR <i>Explanation for</i> including on OR <i>Explanation for</i> including bo			INO
4. Did the review authors use a co	mprehensive literature search strategy?		
For Partial Yes (all the following):	For Yes, should also have (all the following):		
Searched at least 2 databases (relevant or research question)	Searched the reference lists /	\checkmark	Yes
☑provided key word and/or search	bibliographies of included studies		Partial Yes No
trategy	searched trial/study registries		110
Jjustified publication restrictions	⊡included/consulted content		
(e.g. language)	experts in the field where relevant, searched for		
	grey literature		
	✓ conducted search within 24		
	months of completion of the review		
5. Did the review authors perform	n study selection in duplicate?		
For Yes, either ONE of the following:			
	y agreed on selection of eligible studies	\checkmark	Yes
and achieved consensus on which studies to include OR two reviewers selected a sample of eligible studies and achieved good			No
	with the remainder selected by one		

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included studies	onsensus on which data to extract from	⊡Yes No
	a from a sample of eligible studies <u>and</u> st 80 percent), with the remainder	
7. Did the review authors provid	e a list of excluded studies and justify the exc	clusions?
For Partial Yes:	For Yes, must also have:	
✓ provided a list of all potentially	\square Justified the exclusion from	⊠Yes
relevant studies that were read	the review of each potentially	Partial Yes
in full-text form but excluded from the review	relevant study	No
	- the included studies in edgeworks data 10	
	be 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	⊠Yes
☑ described interventions	☑ described intervention in detail	Partial Yes
☑ described comparators	(including doses where relevant)	No
✓ described outcomes	☑ described comparator in detail	
☑ described research designs	(including doses where relevant)	
	☑described study's setting ☑timeframe for follow-up	
0 Did the review authors use a s	atisfactory tooknique for assessing the rick of	fhias (DaD) in
individual studies that were in	atisfactory technique for assessing the risk of cluded in the review?	f bias (RoB) in
individual studies that were in RCTs For Partial Yes, must have assessed RoB		f bias (RoB) in
individual studies that were in RCTs For Partial Yes, must have assessed RoB	cluded in the review? For Yes, must also have assessed RoB	Yes
individual studies that were in RCTs For Partial Yes, must have assessed RoB from	cluded in the review? For Yes, must also have assessed RoB from: allocation sequence that was not truly random, <i>and</i>	Yes Partial Yes
individual studies that were in RCTs For Partial Yes, must have assessed RoB from unconcealed allocation, and lack of blinding of patients and assessors when assessing	cluded in the review? For Yes, must also have assessed RoB from: allocation sequence that was not truly random, <i>and</i> selection of the reported result	Yes Partial Yes No
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11. If meta-analysis was performed did the review authors use appropriate combination of results?	metho	ods for statistical	
RCTs For Yes:			
The authors justified combining the data in a meta-analysis		Yes	
AND they used an appropriate weighted technique to combine study results and adjusted for heterogeneity if present.		No No meta-analysis	
			AND investigated the causes of any heterogeneity
For NRSI For Yes:			
☑The authors justified combining the data in a meta-analysis	\checkmark	Yes	
AND they used an appropriate weighted technique to combine		No	
study results, adjusting for heterogeneity if present ☑AND they statistically combined effect estimates from NRSI that		No meta-analysis	
		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 potent individual studies on the results of the meta-analysis or other evidence s			
For Yes: included only low risk of bias RCTs		√Yes	
•		No	
ØOR, if the pooled estimate was based on RCTs and/or NRSI at variable Pop. the options performed analysis to investigate possible impact of Pop.		No meta-analysi	
RoB, the authors performed analyses to investigate possible impact of RoB on summary estimates of effect.		conducted	
on summary estimates of effect.		conducted	
13. Did the review authors account for RoB in individual studies when inter results of the review?	pretii	ng/ discussing the	
For Yes:			
included only low risk of bias RCTs	⊠Yes		
ØOR, 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 discus heterogeneity observed in the results of the review?	ssion	of, any	
For Yes:			
There was no significant heterogeneity in the results			
\square OR if heterogeneity was present the authors performed an investigation of	I	⊠Yes	
sources of any heterogeneity in the results and discussed the impact of this on the results of the review		No	
	tan	doqueto	
15. If they performed quantitative synthesis did the review authors carry ou investigation of publication bias (small study bias) and discuss its likely the review?			
For Yes:			
\square performed graphical or statistical tests for publication bias and discussed	I	⊠Yes	
the likelihood and magnitude of impact of publication bias		No	
		No meta-analysis	
		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 Yes:			
☑ 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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