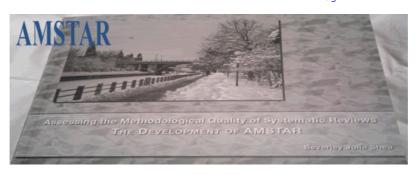
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## **AMSTAR Checklist Printer Friendly Version Article Name:** 1. Did the research questions and inclusion criteria for the review include the components of PICO? Optional (recommended) Yes Population ☐ Timeframe for follow up □ No ☑ Intervention Comparator 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 Partial Yes: For Yes: The authors state that they had a As for partial yes, plus the protocol written protocol or guide that should be registered and should included ALL the following: also have specified: Yes review question(s) a meta-analysis/synthesis plan, if appropriate, and ☐ Partial Yes □ No a plan for investigating causes a search strategy of heterogeneity ☐ inclusion/exclusion criteria a plan for investigating causes of heterogeneity ☐ 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 following: Yes Explanation for including only RCTs □ No ☐ OR Explanation for including only NRSI ☐ 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 the reference lists / Yes searched at least 2 databases (relevant to research question) bibliographies of included studies Partial Yes ☐ No provided key word and/or searched trial/study registries search strategy justified publication restrictions ☐ included/consulted content (e.g. language) experts in the field ☐ where relevant, searched for grey literature and conducted search within 24 months of completion of the review

For Yes, either ONE of the following:	i study selection in adplicate?	
at least two reviewers independe studies and achieved consensus on v		✓ Yes
OR two reviewers selected a sam good agreement (at least 80 percent one reviewer.	ple of eligible studies and achieved	INO INO
6. Did the review authors perform For Yes, either ONE of the following:	data extraction in duplicate?	
at least two reviewers achieved of from included studies	consensus on which data to extract	Yes No
☐ OR two reviewers extracted data achieved good agreement (at least 8 extracted by one reviewer.	from a sample of eligible studies and 0 percent), with the remainder	
7. Did the review authors provide exclusions?	a list of excluded studies and just	ify the
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 describe	e the included studies in adequate	detail?
For Partial Yes (ALL the following):	For Yes, should also have ALL the following:	
$\square$ described populations	described population in detail	✓ Yes  ☐ Partial Yes ☐ No
☐ described interventions	described intervention in detail (including doses where relevant)	
☐ described comparators	described comparator in detail (including doses where relevant)	
described outcomes	described study's setting	
described research designs	✓ timeframe for follow-up	
9. Did the review authors use a sa (RoB) in individual studies that w RCTs	ntisfactory technique for assessing ere included in the review?	the risk of bias
For Partial Yes, must have assessed RoB from	For Yes, must also have assessed RoB from:	
$\hfill\Box$ unconcealed allocation, and	allocation sequence that was not truly random, and	Yes Partial Yes No Includes only NRSI
☐ 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	
NRSI		
For Partial Yes, must have assessed RoB:	For Yes, must also have assessed RoB:	
$\ \square$ from confounding, and	☐ methods used to ascertain exposures and outcomes, and	☐ Yes ☐ Partial Yes ☐ No ☑ Includes only RCTs
☐ from selection bias	selection of the reported result from among multiple measurements or analyses of a specified outcome	
in the review?	on the sources of funding for the	studies included
For Yes		
Must have reported on the source included in the review. Note: Reporti information but it was not reported by	ng that the reviewers looked for this	✓ Yes  □ No

11. If meta-analysis was performed did the review authors use appropriate methods for statistical combination of results?

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	conducted
For NRSI For Yes:	
☐ The authors justified combining the data in a meta-analysis	☐ Yes
$\hfill \square$ AND they used an appropriate weighted technique to combine study results, adjusting for heterogeneity if present	☐ No ☑ No meta- analysis
$\hfill \square$ 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	conducted
$\hfill \Box$ 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 impact of RoB in individual studies on the results of the meta-analyse evidence synthesis?	
For Yes:	
☑ included only low risk of bias RCTs	✓ Yes
$\hfill \Box$ 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 meta- analysis conducted
13. Did the review authors account for RoB in individual studies who discussing the results of the review?  For Yes:	
included only low risk of bias RCTs	✓ Yes  □ No
$\hfill \Box$ 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	
14. Did the review authors provide a satisfactory explanation for, as any heterogeneity observed in the results of the review?  For Yes:	nd discussion of,
☐ There was no significant heterogeneity in the results	✓ Yes  □ No
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	
15. If they performed quantitative synthesis did the review authors adequate investigation of publication bias (small study bias) and disimpact 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 No No meta- analysis conducted
16. Did the review authors report any potential sources of conflict o including any funding they received for conducting the review? For Yes:	f interest,
including any funding they received for conducting the review?	f interest,  Yes

To cite this 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 Sep 21;358:j4008.

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