

AMSTAR 2

1. Did the research questions and inclusion criteria for the review include the components of PICO?

- | | | |
|---|--|------------------------------|
| For Yes: | Optional (recommended) | |
| <input type="checkbox"/> Population | <input type="checkbox"/> Timeframe for follow-up | <input type="checkbox"/> Yes |
| <input type="checkbox"/> Intervention | | <input type="checkbox"/> No |
| <input type="checkbox"/> Comparator group | | |
| <input type="checkbox"/> 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:
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: | |
| <input type="checkbox"/> review question(s) | <input type="checkbox"/> a meta-analysis/synthesis plan, if appropriate, <i>and</i> | <input type="checkbox"/> Yes |
| <input type="checkbox"/> a search strategy | <input type="checkbox"/> a plan for investigating causes of heterogeneity | <input type="checkbox"/> Partial Yes |
| <input type="checkbox"/> inclusion/exclusion criteria | <input type="checkbox"/> justification for any deviations from the protocol | <input type="checkbox"/> No |
| <input type="checkbox"/> 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:
- | | |
|---|------------------------------|
| <input type="checkbox"/> <i>Explanation for</i> including only RCTs | <input type="checkbox"/> Yes |
| <input type="checkbox"/> OR <i>Explanation for</i> including only NRSI | <input type="checkbox"/> No |
| <input type="checkbox"/> OR <i>Explanation for</i> 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): | |
| <input type="checkbox"/> searched at least 2 databases (relevant to research question) | <input type="checkbox"/> searched the reference lists/bibliographies of included studies | <input type="checkbox"/> Yes |
| <input type="checkbox"/> provided key word and/or search strategy | <input type="checkbox"/> searched trial/study registries | <input type="checkbox"/> Partial Yes |
| <input type="checkbox"/> justified publication restrictions (eg, language) | <input type="checkbox"/> included/consulted content experts in the field | <input type="checkbox"/> No |
| | <input type="checkbox"/> where relevant, searched for grey literature | |
| | <input type="checkbox"/> 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:
- | | |
|--|------------------------------|
| <input type="checkbox"/> at least two reviewers independently agreed on selection of eligible studies and achieved consensus on which studies to include | <input type="checkbox"/> Yes |
| <input type="checkbox"/> OR two reviewers selected a sample of eligible studies <u>and</u> achieved good agreement (at least 80 per cent), with the remainder selected by one reviewer | <input type="checkbox"/> No |

6. Did the review authors perform data extraction in duplicate?

- For Yes, either ONE of the following:
- | | |
|---|------------------------------|
| <input type="checkbox"/> at least two reviewers achieved consensus on which data to extract | <input type="checkbox"/> Yes |
|---|------------------------------|

- from included studies No
- OR two reviewers extracted data from a sample of eligible studies and achieved good agreement (at least 80 per cent), with the remainder extracted by one reviewer

7. Did the review authors provide a list of excluded studies and justify the exclusions?

- | | | |
|--|---|---|
| For Partial Yes: | For Yes, must also have: | |
| <input type="checkbox"/> provided a list of all potentially relevant studies that were read in full text form but excluded from the review | <input type="checkbox"/> Justified the exclusion from the review of each potentially relevant study | <input type="checkbox"/> Yes
<input type="checkbox"/> Partial Yes
<input type="checkbox"/> No |

8. 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: | |
| <input type="checkbox"/> described populations | <input type="checkbox"/> described population in detail | <input type="checkbox"/> Yes
<input type="checkbox"/> Partial Yes
<input type="checkbox"/> No |
| <input type="checkbox"/> described interventions | <input type="checkbox"/> described intervention and comparator in detail (including doses where relevant) | |
| <input type="checkbox"/> described comparators | <input type="checkbox"/> described study's setting | |
| <input type="checkbox"/> described outcomes | <input type="checkbox"/> timeframe for follow-up | |
| <input type="checkbox"/> described research designs | | |

9. Did the review authors use a satisfactory technique for assessing the risk of bias (RoB) in individual studies that were included in the review?

- RCTs**
- | | | |
|--|---|--|
| For Partial Yes, must have assessed RoB from | For Yes, must also have assessed RoB from: | |
| <input type="checkbox"/> unconcealed allocation, <i>and</i> | <input type="checkbox"/> allocation sequence that was not truly random, <i>and</i> | <input type="checkbox"/> Yes
<input type="checkbox"/> Partial Yes
<input type="checkbox"/> No
<input type="checkbox"/> Includes only NRSI |
| <input type="checkbox"/> lack of blinding of patients and assessors when assessing outcomes (unnecessary for objective outcomes such as all cause mortality) | <input type="checkbox"/> 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: | |
| <input type="checkbox"/> from confounding, <i>and</i> | <input type="checkbox"/> methods used to ascertain exposures and outcomes, <i>and</i> | <input type="checkbox"/> Yes
<input type="checkbox"/> Partial Yes
<input type="checkbox"/> No
<input type="checkbox"/> Includes only RCTs |
| <input type="checkbox"/> from selection bias | <input type="checkbox"/> selection of the reported result from among multiple measurements or analyses of a specified outcome | |

10. Did the review authors report on the sources of funding for the studies included in the review?

- For Yes
- | | |
|---|---|
| <input type="checkbox"/> Must have reported on the sources of funding for individual studies included in the review. Note: Reporting that the reviewers looked for this information but it was not reported by study authors also qualifies | <input type="checkbox"/> Yes
<input type="checkbox"/> No |
|---|---|

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

- RCTs**
- | | |
|---|--|
| For Yes: | |
| <input type="checkbox"/> The authors justified combining the data in a meta-analysis | <input type="checkbox"/> Yes
<input type="checkbox"/> No
<input type="checkbox"/> No meta-analysis |
| <input type="checkbox"/> AND they used an appropriate weighted technique to combine study results and adjusted for heterogeneity if present | |

<input type="checkbox"/> AND investigated the causes of any heterogeneity	conducted
For NRSI	
For Yes:	
<input type="checkbox"/> The authors justified combining the data in a meta-analysis	<input type="checkbox"/> Yes
<input type="checkbox"/> AND they used an appropriate weighted technique to combine study results, adjusting for heterogeneity if present	<input type="checkbox"/> No
<input type="checkbox"/> 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	<input type="checkbox"/> No meta-analysis conducted
<input type="checkbox"/> 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:	
<input type="checkbox"/> included only low risk of bias RCTs	<input type="checkbox"/> Yes
<input type="checkbox"/> 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	<input type="checkbox"/> No
	<input type="checkbox"/> 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:	
<input type="checkbox"/> included only low risk of bias RCTs	<input type="checkbox"/> Yes
<input type="checkbox"/> 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	<input type="checkbox"/> 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:	
<input type="checkbox"/> There was no significant heterogeneity in the results	
<input type="checkbox"/> 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	<input type="checkbox"/> Yes
	<input type="checkbox"/> 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:	
<input type="checkbox"/> performed graphical or statistical tests for publication bias and discussed the likelihood and magnitude of impact of publication bias	<input type="checkbox"/> Yes
	<input type="checkbox"/> No
	<input type="checkbox"/> 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:	
<input type="checkbox"/> The authors reported no competing interests OR	<input type="checkbox"/> Yes
<input type="checkbox"/> The authors described their funding sources and how they managed potential conflicts of interest	<input type="checkbox"/> No