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AMSTAR Checklist

Article Name:	Printer F	riendly Version
Efficacy of non-opioid analgesics and regional techniques for perioperat		
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
Comparator group		
Outcome		
review methods were estable and did the report justify and For Partial Yes: The authors state that they had a written protocol or guide that included ALL the following:	-	
review question(s)	✓ a meta-analysis/synthesis plan, if appropriate, and	✓ Yes □ Partial Yes
a search strategy	a plan for investigating causes of heterogeneity	□ No
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:

Explanation for including only RCTs		✓ Yes
☐ OR Explanation for including only NRSI		□ No
OR Explanation for including	ng both RCTs and NRSI	
4. Did the review authors us strategy?	e a comprehensive literature	e search
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 ☐ Partial Yes ☐ No
provided key word and/or search strategy	searched trial/study registries	
justified publication restrictions (e.g. language)	✓ included/consulted content 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 pe For Yes, either ONE of the follo	erform study selection in dup	licate?
For Yes, either ONE of the follow at least two reviewers inde of eligible studies and achieved to include OR two reviewers selected	pendently agreed on selection d consensus on which studies a sample of eligible studies (at least 80 percent), with the	licate? ✓ Yes □ No
For Yes, either ONE of the follow at least two reviewers indes of eligible studies and achieved to include OR two reviewers selected and achieved good agreement remainder selected by one reverse. 6. Did the review authors per selected and achieved good agreement remainder selected by one reverse.	pendently agreed on selection d consensus on which studies a sample of eligible studies (at least 80 percent), with the iewer.	✓ Yes □ No
For Yes, either ONE of the follow at least two reviewers indes of eligible studies and achieved to include OR two reviewers selected and achieved good agreement remainder selected by one reverselected. 6. Did the review authors per For Yes, either ONE of the follows.	pendently agreed on selection d consensus on which studies a sample of eligible studies (at least 80 percent), with the iewer. erform data extraction in dupowing: eved consensus on which data	✓ Yes □ No
For Yes, either ONE of the follow at least two reviewers indes of eligible studies and achieved to include OR two reviewers selected and achieved good agreement remainder selected by one reverselected by one reverselected authors per For Yes, either ONE of the follow at least two reviewers achieved.	pendently agreed on selection d consensus on which studies a sample of eligible studies (at least 80 percent), with the iewer. Erform data extraction in dupowing: eved consensus on which data as d data from a sample of ood agreement (at least 80	✓ Yes No No Vicate? ✓ Yes
For Yes, either ONE of the follow at least two reviewers inderection include OR two reviewers selected and achieved good agreement remainder selected by one reviewers, either ONE of the follow at least two reviewers achieved studies. OR two reviewers extracted eligible studies and achieved gercent), with the remainder extracted in the review authors provided in the reviewers extracted eligible studies.	pendently agreed on selection d consensus on which studies a sample of eligible studies (at least 80 percent), with the iewer. Erform data extraction in dupowing: eved consensus on which data as d data from a sample of ood agreement (at least 80	✓ Yes No No Ves No No No
For Yes, either ONE of the follow at least two reviewers indes of eligible studies and achieved to include OR two reviewers selected and achieved good agreement remainder selected by one rev 6. Did the review authors per For Yes, either ONE of the follow at least two reviewers achieved extract from included studies. OR two reviewers extracted eligible studies and achieved generation, with the remainder extracted in the second studies.	pendently agreed on selection d consensus on which studies a sample of eligible studies (at least 80 percent), with the iewer. Erform data extraction in dupowing: eved consensus on which data as d data from a sample of ood agreement (at least 80 extracted by one reviewer.	✓ Yes No No Vicate? ✓ Yes No

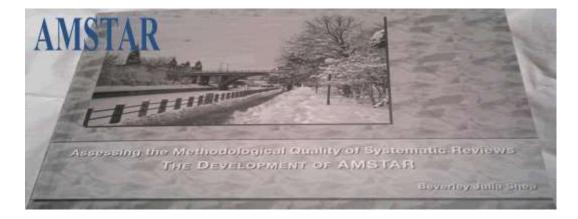
8. Did the review authors describe the included studies in adequate detail?

For Partial Yes (ALL the following):	For Yes, should also have ALL the following:	
described populations	described population in detail	✓ Yes □ Partial Yes
described interventions	described intervention in detail (including doses where relevant)	□ No
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 the risk of bias (RoB) in indiv review? RCTs		
For Partial Yes, must have assessed RoB from	For Yes, must also have assessed RoB from:	
unconcealed allocation, and	✓ allocation sequence that was not truly random, and	✓ Yes □ Partial 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	☐ No ☐ Includes only NRSI
NRSI		
For Partial Yes, must have assessed RoB:	For Yes, must also have assessed RoB:	
\square from confounding, and	$\hfill \square$ methods used to ascertain exposures and outcomes, and	☐ Yes ☐ Partial Yes
☐ from selection bias	selection of the reported result from among multiple measurements or analyses of a specified outcome	☐ No ✓ Includes only RCTs
10. Did the review authors restudies included in the review		ing for the
✓ Must have reported on the individual studies included in the		✓ Yes □ No

For Yes:

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	
For NRSI For Yes:	
$\hfill \square$ The authors justified combining the data in a meta-analysis	☐ Yes ☐ No
$\hfill \square$ AND they used an appropriate weighted technique to combine study results, adjusting for heterogeneity if present	☐ No meta- analysis conducted
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	
$\hfill \square$ 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 auth potential impact of RoB in individual studies on the result meta-analysis or other evidence synthesis? For Yes:	
$\ \square$ included only low risk of bias RCTs	Yes
 □ included only low risk of bias RCTs ☑ 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. 	✓ Yes ☐ No ☐ No meta- analysis conducted
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. 13. Did the review authors account for RoB in individual interpreting/ discussing the results of the review?	☐ No ☐ No meta- analysis conducted
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. 13. Did the review authors account for RoB in individual interpreting/ discussing the results of the review? For Yes:	□ No □ No meta- analysis conducted studies when
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. 13. Did the review authors account for RoB in individual interpreting/ discussing the results of the review?	☐ No ☐ No meta- analysis conducted
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. 13. Did the review authors account for RoB in individual interpreting/ discussing the results of the review? For Yes:	□ No □ No meta- analysis conducted studies when
 ✓ 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. 13. Did the review authors account for RoB in individual interpreting/ discussing the results of the review? For Yes: □ included only low risk of bias RCTs ✓ 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 explandiscussion of, any heterogeneity observed in the results 	□ No □ No meta- analysis conducted studies when ✓ Yes □ No
 ✓ 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. 13. Did the review authors account for RoB in individual interpreting/ discussing the results of the review? For Yes: ☐ included only low risk of bias RCTs ✓ 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 explandiscussion of, any heterogeneity observed in the results For Yes: 	□ No □ No meta- analysis conducted studies when ✓ Yes □ No ation for, and of the review?
 ✓ 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. 13. Did the review authors account for RoB in individual interpreting/ discussing the results of the review? For Yes: □ included only low risk of bias RCTs ✓ 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 explandiscussion of, any heterogeneity observed in the results 	□ No □ No meta- analysis conducted studies when ✓ Yes □ 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 ☐ No ☐ No meta- analysis conducted	
16. Did the review authors report any potential sources interest, including any funding they received for conduct 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	
To cite this tool: Shea BJ, Reeves BC, Wells G, Thuku M, Hame Moher D, Tugwell P, Welch V, Kristjansson E, Henry DA. AMSTA appraisal tool for systematic reviews that include randomised randomised studies of healthcare interventions, or both. BMJ. 221;358:j4008.	R 2: a critical or non-	
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AMSTAR 2 Results

Printer Friendly Version

Article Name:

Efficacy of non-opioid analgesics and regional techniques for perioperat...

Efficacy of non-opioid analgesics and regional techniques for perioperat... is a High quality review

 Did the research questions and inclusion criteria fo 	r Yes
the review include the components of PICO?	Yes

Yes

Yes

Yes

Yes

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?

YesYesYesYesYesYesYes

3. Did the review authors explain their selection of the Yes **study designs for inclusion in the review?** Yes

4. Did the review authors use a comprehensive literature search strategy?

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

Yes

5. Did the review authors perform study selection in	Yes
duplicate?	Yes
5. Did the review authors perform data extraction in	Yes
duplicate?	Yes
7. Did the review authors provide a list of excluded	Yes
studies and justify the exclusions?	Yes
	Yes
3. Did the review authors describe the included	Yes
studies in adequate detail?	Yes
•	Yes
	Yes
	Yes
	Yes
	Yes
9. Did the review authors use a satisfactory technique for assessing the risk of bias (RoB) in individual	2
studies that were included in the review?	
RCT	Yes
NRSI	0
	Yes
	Yes
	Yes
	Yes
10. Did the review authors report on the sources of funding for the studies included in the review?	Yes Yes
11. If meta-analysis was performed did the review authors use appropriate methods for statistical	
combination of results?	Yes
NRSI	
	Yes
	Yes
	Yes
12. If meta-analysis was performed, did the review authors assess the potential impact of RoB in	Yes
individual studies on the results of the meta-analysis	Yes

Yes

or other evidence synthesis?

13. Did the review authors account for RoB in individual studies when interpreting/ discussing the	Yes
results of the review?	Yes
14. Did the review authors provide a satisfactory explanation for, and discussion of, any heterogeneity	Yes
observed in the results of the review?	Yes
15. If they performed quantitative synthesis did the review authors carry out an adequate investigation of	Yes
publication bias (small study bias) and discuss its likely impact on the results of the review?	Yes
16. Did the review authors report any potential	Yes
sources of conflict of interest, including any funding they received for conducting the review?	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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