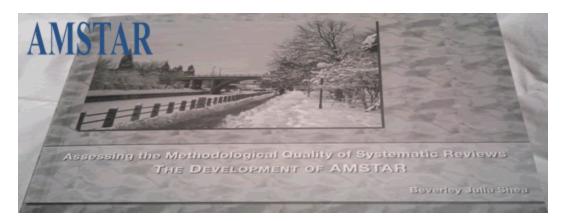
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AMSTAR Checklist

711 10 17 III GIIGGIII 150				
Article Name: Statin Use in Total Joint Arthroplas		riendly Version		
1. Did the research questions and inclusion criteria for the review include the components of PICO?				
For Yes:	Optional (recommended)			
✓ Population ✓ Intervention	☐ Timeframe for follow up	✓ Yes □ No		
✓ Comparator group✓ Outcome				
2. Did the report of the revie review methods were establ and did the report justify an	ished prior to the conduct of	the review		
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)	$\ \square$ 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 hias assessment				

3. Did the review authors ex for inclusion in the review?	plain their selection of the s	tudy designs
For Yes, the review should sati	isfy ONE of the following:	
\square Explanation for including o	☐ Explanation for including only RCTs	
\square OR Explanation for including	ng only NRSI	□ No
OR Explanation for including		
4. Did the review authors us strategy?	se 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	
•	erform study selection in dup	licate?
For Yes, either ONE of the follo		_
at least two reviewers inde of eligible studies and achieved to include	ependently agreed on selection d consensus on which studies	✓ Yes ☐ No
OR two reviewers selected and achieved good agreement remainder selected by one rev	(at least 80 percent), with the	
-	erform data extraction in dup	olicate?
For Yes, either ONE of the follo	owing:	_
✓ at least two reviewers achieved consensus on which data to extract from included studies		✓ Yes □ No
OR two reviewers extracte eligible studies and achieved g percent), with the remainder e	ood agreement (at least 80	
7. Did the review authors pr the exclusions?	ovide a list of excluded stud	ies and justify
For Partial Yes:	For Yes, must also have:	
✓ provided a list of all potentially relevant studies	✓ Justified the exclusion from the review of each	✓ Yes

that were read in full-text form but excluded from the review	potentially relevant study	□ No
8. Did the review authors de detail?	scribe the included studies in	n adequate
For Partial Yes (ALL the following):	For Yes, should also have ALL the following:	
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	
review? RCTs For Partial Yes, must have assessed RoB from	For Yes, must also have assessed RoB from:	
For Partial Yes, must have		
✓ 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:	
✓ 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	
10. Did the review authors restudies included in the revie	eport on the sources of fundi w?	ing for the
For Yes		
✓ Must have reported on the individual studies included in tl		✓ Yes

that the reviewers looked for this information but it was not reported by study authors also qualifies

appropriate methods for statistical combination of results?				
RCTs				
For Yes:				
$\hfill\Box$ The authors justified combining the data in a metaanalysis	☐ Yes ☐ No			
☐ AND they used an appropriate weighted technique to combine study results and adjusted for heterogeneity if present.	✓ No meta- analysis conducted			
$\hfill \square$ AND investigated the causes of any heterogeneity				
For NRSI For Yes:				
$\hfill\Box$ The authors justified combining the data in a metaanalysis	☐ Yes ☐ No			
$\hfill \Box$ 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 resulmeta-analysis or other evidence synthesis? For Yes:				
_				
☐ included only low risk of bias RCTs	☐ 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.	No meta- analysis conducted			
13. Did the review authors account for RoB in individual interpreting/ discussing the results of the review?	studies when			
For Yes:				
☐ included only low risk of bias RCTs	✓ Yes □ No			
✓ 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, and discussion of, any heterogeneity observed in the results of the review?			
For Yes:			
✓ 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 revicarry out an adequate investigation of publication bias (sbias) and discuss its likely impact on the results of the reference. For Yes:	small study		
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 interest, including any funding they received for conduct review?			
For Yes:			
✓ The authors reported no competing interests OR	✓ Yes		
$\hfill\Box$ 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, Hamel Moher D, Tugwell P, Welch V, Kristjansson E, Henry DA. AMSTAI appraisal tool for systematic reviews that include randomised or randomised studies of healthcare interventions, or both. BMJ. 221;358:j4008.	R 2: a critical or non-		
Assess Article			

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