## Appendix 2. Modified Cochrane Risk of Bias tool<sup>34</sup>

Source of bias	Criteria for a judgment of "yes"	Criteria for a judgment of "no"
I. Was the randomisation procedure adequate?	•	<ul> <li>NO – a non-random component is used in the allocation process, such as:</li> <li>Sequence generated using odd or even date of birth</li> <li>Sequence based on a rule based on date of admission or hospital number</li> <li>Allocation decision is made by clinician or participant</li> <li>Allocation is based on clinical or laboratory test findings</li> </ul>
2. Was the treatment allocation adequately concealed?	<ul> <li>YES – participants and physicians could not foresee allocation assignment, because an adequate method was used to conceal allocation. Adequate allocation concealment methods include:</li> <li>Central allocation</li> <li>Identical drug containers are sequentially numbered</li> <li>Opaque, sealed, sequentially numbered assignment envelopes are used</li> <li>Remotely labelled study kit with no indication of treatment within</li> <li>Statement that allocation was concealed from investigators</li> </ul>	<ul> <li>NO – participants or physicians could potentially foresee allocation. Inadequate allocation concealment procedures include:</li> <li>The use of an open random allocation schedule</li> <li>Assignment envelopes are not appropriate, such that envelopes may be unsealed, not sequentially numbered, or see-through</li> <li>Rotation or alternation</li> <li>Methods based on date of birth, case record number, or other patient identifiers</li> </ul>
3. Were participants blinded to the intervention?	Unclear – No mention of precautions to YES – patients were adequately blinded and it is unlikely that the blinding could be broken. A statement describing that the treatments were identical or "matched" is expected to allow a decision.	<b>NO</b> – No blinding, incomplete blinding, or blinding attempted but likely to have been broken
4. Were physicians blinded to the intervention?		double-blinded but no description of the ing a decision to be made regarding the <b>NO</b> – No blinding, incomplete blinding, or blinding attempted but likely to have been broken

Xiong Y, et al. BMJ Open 2021; 11:e048652. doi: 10.1136/bmjopen-2021-048652

treatments are identical a statement that the physicians were blinded allows a yes

**Unclear** – Study reported as single- or double-blinded but no description of the process of blinding, thereby not allowing a decision to be made regarding the adequacy.

5.	Were outcome assessors blinded to the intervention?	<ul> <li>YES – treatment choice is not evident when measuring outcome.</li> <li>If outcome is patient-reported, then the answer for "Were participants blinded to the intervention?" will be the same for this question.</li> <li>For physician-assessed outcomes, this is dependent on whether the treatment allocation can be identified from examination of the patient or their tests</li> </ul>	<ul> <li>NO – treatment choice is likely to be evident when measuring outcome</li> <li>If outcome is patient-reported, then the answer for "Were participants blinded to the intervention?" will be the same for this question.</li> <li>For physician-assessed outcomes, this is dependent on whether the treatment allocation can be identified from examination of the patient or their tests</li> </ul>	
6.	Incomplete outcome data: Is the attrition rate <15%?	<b>YES</b> – drop-out rate is less than 15%	<b>NO</b> – drop-out rate is greater than 15%	
		<b>Unclear</b> – flow of patients not given. Unable to ascertain number of withdrawals		
7.	Are all pre- specified outcomes of interest reported in the pre- specified way?	<b>YES</b> – all the study's pre-specified outcomes of interest are reported in the pre-specified way	<ul> <li>NO – Outcome measures were not prespecified, such as:</li> <li>Not all the pre-specified outcomes have been reported</li> <li>Outcomes are not reported using the measurements or methods pre-specified</li> <li>Outcomes reported had not been prespecified, such as post-hoc analyses</li> <li>Outcomes of interest have been incompletely reported</li> <li>The report does not report outcomes that would be expected from such a study</li> </ul>	
8.	Was intention-to- treat analysis used?	<b>YES</b> – all randomised participants are analysed according to the group they were allocated to, regardless of non- compliance, protocol violations, drop-outs etc.	<b>NO</b> – the study states that ITT was used, but patients have been excluded from analysis, post-randomisation, for variety of reasons. Alternatively, per-protocol analysis is used to analyse only participants that adhered fully to their allocated treatment, excluding any drop-outs or moves between treatment groups.	

Unclear - does not mention if ITT or PP used and n for each outcome not presented

9.	Were the	YES – treatment and control group	NO – Treatment and control groups were
	treatment and	were similar regarding patient	dissimilar with regards to patient
	control group	demographics and baseline	demographics and baseline parameters.
	similar at	parameters.	Alternatively, characteristics are not
	baseline?		presented in either text or table

Unclear- if characteristics are mentioned in text, but data are not presented

34. Higgins J, Green S. Cochrane Handbook for Systematic Reviews of Interventions Version 5.1.0. *The Cochrane Collaboration* 2011.