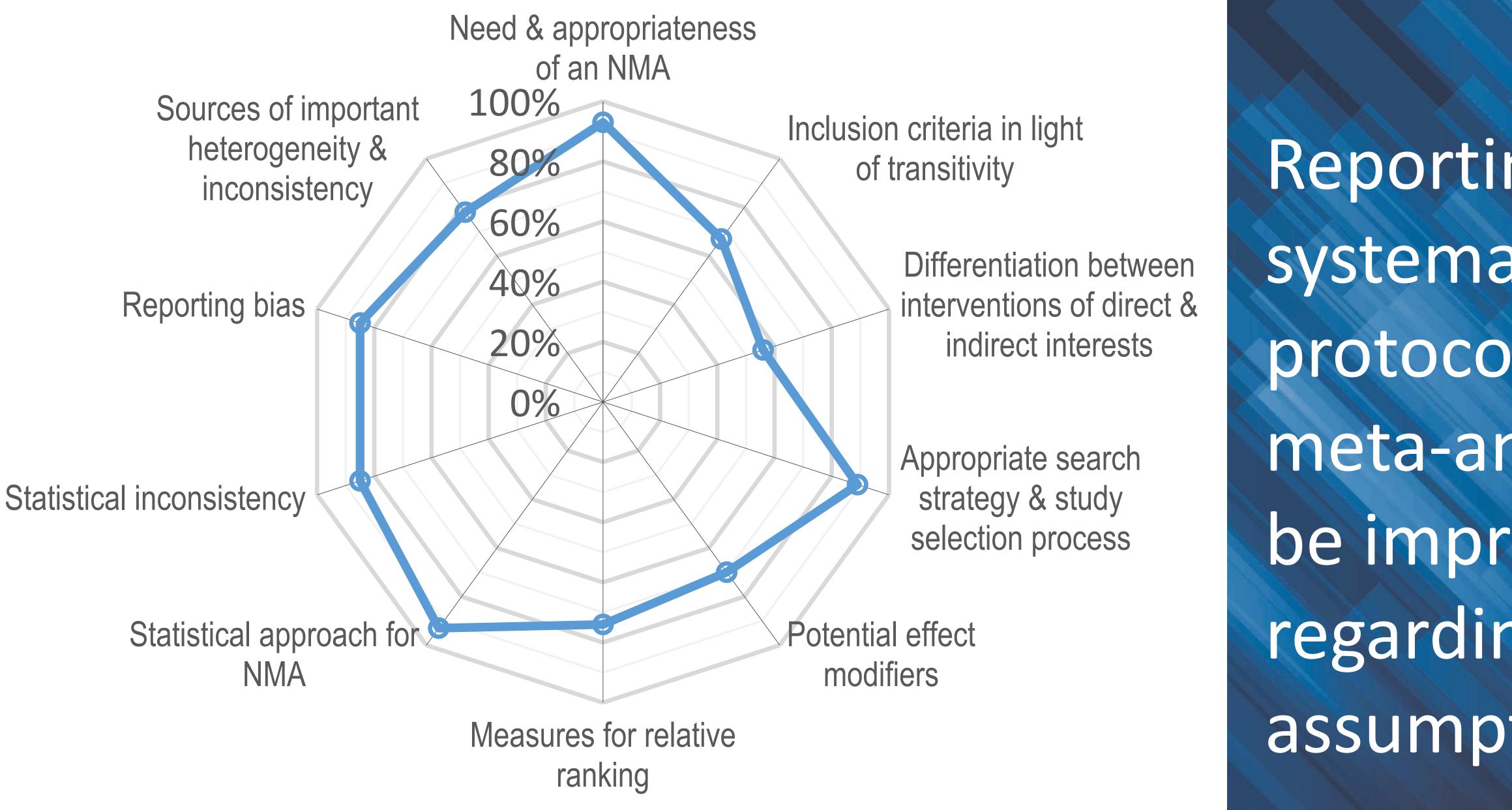
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Reporting of Cochrane systematic review protocols with network meta-analyses – a scoping review

Rui Wang¹, Anna Lene Seidler², Madelon van Wely³, Lisa Askie², Ben Willem Mol¹

1. Department of Obstetrics and Gynaecology, Monash University, Melbourne, Australia; 2. NHMRC Clinical Trials Centre, University of Sydney, Sydney, Australia; 3. Amsterdam UMC, University of Amsterdam, Amsterdam, The Netherlands.



Reporting of Cochrane systematic review

Assessments of Cochrane NMA protocols published in 2018

protocols with network meta-analysis needs to be improved, especially regarding transitivity assumptions.

Background

• Network meta-analyses (NMAs) have they compare popularity increased as in multiple treatments for clinical the same

49 through Cochrane

- 93% explained the need of an NMA
- 67% reported the considerations of transitivity assumption in the inclusion criteria
- 56% differentiated interventions of direct interest

condition

- Publishing systematic review protocols is a fundamental part of Cochrane systematic reviews to ensure transparency and reproducibility
- As current RevMan software does not support NMAs, the reporting of NMAs as well as their protocols lack standardization, although on preparing systematic review guidance protocols with NMAs has been proposed recently⁽¹⁾

Objective

• To evaluate how Cochrane systematic review protocols with NMA are reported

Methods

- Systematic search for protocols of systematic reviews with NMA published in 2018 in the Cochrane library
- Assessing the characteristics and reporting of methodologies relevant to NMA in the protocols
- Reporting frequencies for each characteristic

library searching			
49 after duplicates removed			8 excluded: 7 protocols for diagnostic revi 1 protocol for prognosis revie
41 full-text assessed 27 Protocols included:		•	14 excluded: 14 protocols without NMA
 25 protocols for intervention review 2 protocols for overview of reviews 			
Figure: Study flow diagram			

for practice and interventions that provide indirect evidence

- 15% presented a conceptional network plot to illustrate the "nodes" of interest
- 89% used appropriate search strategy & study selection process
- 70% reported prespecified potential effect modifiers for the evaluation of transitivity
- 74% reported measures for relative ranking
- 93% reported the approaches of NMA
- 70% reported the assumptions on heterogeneity variances
- 85% reported methods to assess statistical inconsistency
- 85% reported methods to assess potential reporting bias
- 78% reported possible sources of important heterogeneity and inconsistency for network metaanalyses

Implication

- To date, Cochrane protocols for NMA do not include all suggested reporting items
- Improved implementation of existing guidance could assist authors, reviewers and editors in

and reporting item⁽¹⁾

Patient or healthcare consumer involvement

• Patients and healthcare consumers will be invited to comment on this research project, help with dissemination of the results and increase its accessibility from consumers' perspective

Results

- 27 protocols with NMA from 16 different Cochrane groups published in 2018:
 - 93% protocols for intervention reviews
 - 7% protocols for overviews of reviews
- 63% including at least one author based in Europe
- 74% used NMA in the title

preparing and assessing protocols of NMAs and help readers in critically appraising published protocols

Reference

(1) Chaimani A, Caldwell DM, Li T, Higgins JPT, Salanti Additional considerations are required when G. preparing a protocol for a systematic review with multiple interventions. J Clin Epidemiol. 2017;83:65-74.

Contact: Dr Rui Wang, Monash University; Email: r.wang@monash.edu; Twitter: @RuiWangMD







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