APPENDIX 1. Search strategy for critical appraisal tool manuscripts and webpages.	
Tool <sup>a</sup>	Search Strategy
RoB	Original manuscript obtained from citation list of Zeng et al. <sup>1</sup> Tool obtained from Tables 1 and 2 of original manuscript. Link for tool: https://www.bmj.com/content/343/bmj.d5928
RoB 2	Original manuscript obtained from citation list of Haile. <sup>2</sup> Tool obtained through Google search using "ROB 2 Tool"; a link to the tool on the Cochrane Collaboration's risk-of-bias Google site was available on the first page of results. Link for tool: https://sites.google.com/site/riskofbiastool/welcome/rob-2-0-tool?authuser=0
NOS	Tool webpage obtained from citation list of Zeng et al. <sup>1</sup> Link for tool: http://www.ohri.ca/programs/clinical_epidemiology/oxford.asp
ROBINS-I	Original manuscript obtained from citation list of Ma et al. <sup>3</sup> Tool obtained through Google search using "ROBINS-I Tool"; a link to the tool on the Cochrane Collaboration's risk-of-bias Google site was available on the first page of results. Link for tool: https://www.riskofbias.info/welcome/home/current-version-of-robins-i
MINORS	Original manuscript obtained from citation list of Zeng et al. <sup>1</sup> Tool obtained from Table 2 of original manuscript. Link for tool: https://www.unisa.edu.au/contentassets/72bf75606a2b4abcaf7f17404af374ad/6fminors1.pdf
AMSTAR 2	Original manuscript obtained from citation list of Haile. <sup>2</sup> Tool obtained from manuscript "Data Supplement". Link for tool: https://www.bmj.com/content/358/bmj.j4008/related
ROBIS	Original manuscript obtained from citation list of Ma et al. <sup>3</sup> Tool obtained through Google search using "ROBIS Tool"; a link to the tool on University of Bristol's webpage was available on the first page of results. Link for tool: https://www.bristol.ac.uk/population-health-sciences/projects/robis/robis-tool/
AGREE II	Tool webpage obtained from citation list of Zeng et al. <sup>1</sup> Link for tool: https://www.agreetrust.org/resource-centre/agree-ii/
GRACE	Original manuscript obtained from citation list of Ma et al. <sup>3</sup> Tool obtained through Google search using "GRACE Checklist"; a link to the tool on the Grace Principles website was available on the first page of results. Link: https://www.graceprinciples.org/doc/GRACE-Checklist-031114-v5.pdf
CASP checklists	Tool webpage obtained from citation list of Zeng et al. <sup>1</sup> Link for tool: https://casp-uk.net/casp-tools-checklists/
CEBM guides	Tool webpage obtained from citation list of Twells. <sup>4</sup> Link for tool: https://www.cebm.ox.ac.uk/resources/ebm-tools/critical-appraisal-tools
JBI critical appraisal tools	Tool webpage obtained from citation list of Buccheri and Sharifi. <sup>5</sup> Link for tool: https://jbi.global/critical-appraisal-tools
SIGN	Tool webpage obtained from citation list of Zeng et al. <sup>1</sup> Link for tool: https://www.sign.ac.uk/what-we-do/methodology/checklists/
CCAT	Tool obtained from Table 3 of Bashir and Dziemidowicz <sup>6</sup> Link: https://conchra.com.au/2015/12/08/crowe-critical-appraisal-tool-v1-4/

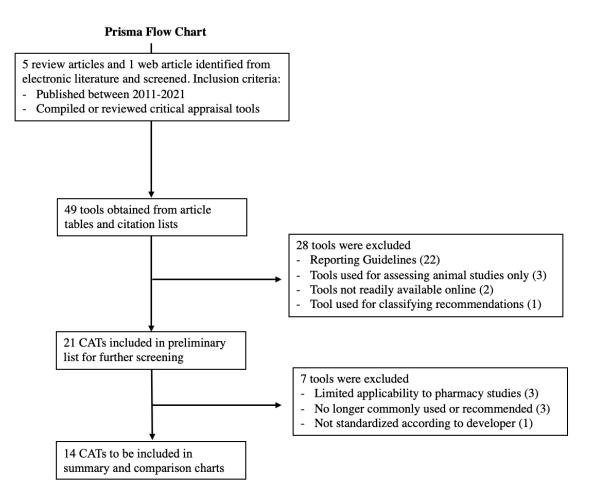
<sup>a</sup>The full name of each tool is provided in Table 1 of the main article.

# References

- 1. Zeng X, Zhang Y, Kwong JS, Zhang C, Li S, Sun F, et al. The methodological quality assessment tools for preclinical and clinical studies, systematic review and meta-analysis, and clinical practice guideline: a systematic review. *J Evid Based Med.* 2015;8(1):2-10.
- 2. Haile ZT. Critical appraisal tools and reporting guidelines. *J Hum Lact.* 2021;38(1):21-7.
- Ma LL, Wang YY, Yang ZH, Huang D, Weng H, Zeng XT. Methodological quality (risk of bias) assessment tools for primary and secondary medical studies: what are they and which is better? *Mil Med Res.* 2020;7(1):7.
- Twells LK. Evidence-based decision-making 1: Critical appraisal. Methods Mol Biol. 2021;2249:389-404.
- Buccheri RK, Sharifi C. Critical appraisal tools and reporting guidelines for evidence-based practice. *Worldviews Evid Based Nurs*. 2017;14(6): 463-72.
- Bashir S, Dziemidowicz K. Critical appraisal: how to evaluate research for use in clinical practice. *Pharm J.* 2021 [cited 2022 Apr 26];306(7950). Available from: https://pharmaceutical-journal.com/ article/ld/critical-appraisal-how-to-evaluate-research-for-use-inclinical-practice

Appendix to: Blanc A, Ho V, Cameron J. Critical appraisal tools to aid pharmacists in evidence-based practice: a narrative review. *Can J Hosp Pharm*. 2023. https://doi.org/10.4212/cjhp.3281

# APPENDIX 2. PRISMA flow chart for critical appraisal tools (CATs) included in the study.



Appendix to: Blanc A, Ho V, Cameron J. Critical appraisal tools to aid pharmacists in evidence-based practice: a narrative review. *Can J Hosp Pharm.* 2023. https://doi.org/10.4212/cjhp.3281

# APPENDIX 3. Risk-of-bias (RoB) domains assessed by tools.

## Cochrane RoB<sup>1</sup>

- · Selection bias (random sequence generation, allocation concealment)
- Performance bias (blinding of participants and personnel)
- Detection bias (blinding of outcome assessment)
- Attrition bias (incomplete outcome data)
- Reporting bias (selective reporting)
- Other bias (anything else, ideally prespecified)
- Overall RoB

#### Cochrane RoB 2<sup>2</sup>

- RoB arising from the randomization process
- RoB due to deviations from the intended interventions (effect of assignment to intervention and effect of adhering to intervention)
- Missing outcome data
- RoB in measurement of the outcome
- RoB in selection of the reported result
- Overall RoB

## Cochrane ROBINS-I<sup>3</sup>

- Bias due to confounding
- Bias in selection of participants into the study
- · Bias in classification of interventions
- · Bias due to deviations from intended interventions
- Bias due to missing data
- Bias in measurement of outcomes
- · Bias in selection of the reported result
- Overall bias

#### ROBIS<sup>4</sup>

- · Concerns regarding specification of study eligibility criteria
- · Concerns regarding methods used to identify and/or select studies
- Concerns regarding methods used to collect data and appraise studies
- Concerns regarding the synthesis and findings

## References

- Higgins JP, Altman DG, Gøtzsche PC, Jüni P, Moher D, Oxman AD, et al. The Cochrane Collaboration's tool for assessing risk of bias in randomised trials. *BMJ*. 2011;343:d5928.
- Sterne JAC, Savović J, Page MJ, Elbers RG, Blencowe NS, Boutron I, et al. RoB 2: a revised tool for assessing risk of bias in randomised trials. *BMJ*. 2019;366:l4898.
- Sterne JA, Hernán MA, Reeves BC, Savović J, Berkman ND, Viswanathan M, et al. ROBINS-I: a tool for assessing risk of bias in non-randomised studies of interventions. *BMJ*. 2016;355:i4919.
- 4. Whiting P, Savović J, Higgins JP, Caldwell DM, Reeves BC, Shea B, et al. ROBIS: a new tool to assess risk of bias in systematic reviews was developed. *J Clin Epidemiol*. 2016;69:225-34.

Appendix to: Blanc A, Ho V, Cameron J. Critical appraisal tools to aid pharmacists in evidence-based practice: a narrative review. *Can J Hosp Pharm.* 2023. https://doi.org/10.4212/cjhp.3281