Checklist for making judgements about how much confidence to place in a systematic review of effects (adapted version of SURE checklist:)ⁱ

Assessed by:	
Date:	

A.1 Were the criteria used for deciding which studies to include in the review reported?	□ Yes □ Partially
Did the authors specify: Types of studies Participants/ settings/ population Intervention(s) Outcome(s)	□ No <i>Coding guide - check the answers above</i> <i>YES: All four should be yes</i> <i>NO: All four should be no</i> <i>PARTIALLY: Any other</i>
<i>Comments (note important limitations or uncertainty)</i>	
A.2 Was the search for evidence reasonably comprehensive? Were the following done: Language bias avoided (no restriction of inclusion based on language) No restriction of inclusion based on publication status Relevant databases searched (<u>Minimum criteria</u> : All reviews should search at least one source of grey literature such as Google; for health: Medline/ Pubmed + Cochrane Library; for social sciences IDEAS + at least one database of general social science literature and one subject specific database) Reference lists in included articles checked Authors/experts contacted	 ☐ Yes ☐ Partially ☐ No ☐ Can't tell Can't tell <i>YES: All five should be yes</i> <i>PARTIALLY: Relevant databases and reference lists</i> <i>are both reported</i> <i>NO: Any other</i>
<i>Comments (note important limitations or uncertainty)</i>	

Section A: Methods used to identify, include and critically appraise studies

A.3 Does the review cover an appropriate time period? Is the search period comprehensive enough that relevant literature is unlikely to be omitted?	 Yes Can't tell (only use if no information about time period for search) No Unsure
	Coding guide: YES: Generally this means searching the literature at least back to 1990 NO: Generally if the search does not go back to 1990 CAN'T TELL: No information about time period for search Note: With reference to the above – there may be important reasons for adopting different dates for the search, e.g. depending on the intervention. If you think there are limitations with the timeframe adopted for the search which have not been noted and justified by the authors, you should code this item as a NO and specify your reason for doing so in the comment box below. Older reviews should not be downgraded, but the fact that the search was conducted some time ago should be noted in the quality assessment. Always report the time period for the search in the comment box.

Comments (note search period, any justification provided for the search period, or uncertainty)

A.4 Was bias in the selection of articles avoided? Did the authors specify: □ Independent screening of full text by at least 2 reviewers □ List of included studies provided □ List of excluded studies provided	 ☐ Yes ☐ Partially ☐ No Coding guide: YES: All three should be yes, although reviews published in journals are unlikely to have a list of excluded studies (due to limits on word count) and the review should not be penalised for this. PARTIALLY: Independent screening and list of included studies provided are both reported NO: All other. If list of included studies provided, but the authors do not report whether or not the screening has been done by 2 reviewers review is downgraded to NO.
<i>Comments (note important limitations or uncertainty):</i>	

A.5 Did the authors use appropriate criteria to assess the quality and risk of bias in analysing the studies that are included? ⁱⁱ ☐ The criteria used for assessing the quality/ risk of bias were reported ☐ A table or summary of the assessment of each included study for each criterion was reported ☐ Sensible criteria were used that focus on the quality/ risk of bias (and not other qualities of the studies, such as precision or applicability/external validity). "Sensible" is defined as a recognised quality appraisal tool/ checklist, or similar tool which assesses bias in included studies. Please see footnotes for details of the main types of bias such a tool should assess.	□ Yes □ Partially □ No <i>Coding guide:</i> <i>YES: All three should be yes</i> <i>PARTIALLY: The first and third criteria should be</i> <i>reported. If the authors report the criteria for assessing</i> <i>risk of bias and report a summary of this assessment</i> <i>for each criterion, but the criteria may be only partially</i> <i>sensible (e.g. do not address all possible risks of bias,</i> <i>but do address some), we downgrade to PARTIALLY.</i> <i>NO: Any other</i>
Comments (note important limitations or uncertainty)	<u></u>

Section B: Methods used to analyse the findings

 B.1 Were the characteristics and results of the included studies reliably reported? Was there: □ Independent data extraction by at least 2 reviewers □ A table or summary of the characteristics of the participants, interventions and outcomes for the included studies □ A table or summary of the results of all the included studies 	 ☐ Yes ☐ No ☐ Partially ☐ Not applicable (e.g. no included studies) <i>Coding guide:</i> <i>YES: All three should be yes</i> <i>PARTIALLY: Criteria one and three are yes, but some information is lacking on second criteria.</i> <i>No: None of these are reported. If the review does not report whether data was independently extracted by 2 reviewers (possibly a reporting error), we downgrade to NO.</i> <i>NOT APPLICABLE: if no studies/no data</i>
Comments (note important limitations or uncertainty)	
B.2 Are the methods used by the review authors to analyse the findings of the included studies clear, including methods for calculating effect sizes if applicable?	 ☐ Yes ☐ Partially ☐ No ☐ Not applicable (e.g. no studies or no data) <i>Coding guide:</i> <i>YES: Methods used clearly reported. If it is clear that the authors use narrative synthesis, they don't need to say this explicitly.</i> <i>PARTIALLY: Some reporting on methods but lack of clarity</i> <i>NO: Nothing reported on methods</i> <i>NOT APPLICABLE: if no studies/no data</i>

Comments (note important limitations or uncertainty)		
 B.3 Did the review describe the extent of heterogeneity? □ Did the review ensure that included studies were similar enough that it made sense to combine them, sensibly divide the included studies into homogeneous groups, or sensibly conclude that it did not make sense to combine or group the included studies? □ Did the review discuss the extent to which there were important differences in the results of the included studies? □ If a meta-analysis was done, was the I², chi square test for heterogeneity or other appropriate statistic reported? If no statistical test was reported, is a qualitative justification made for the use of random effects? 	☐ Yes ☐ Partiall ☐ No ☐ Not app <i>Coding gu</i> <i>YES: Firs.</i> <i>should be</i> <i>PARTIAL</i> <i>NO: Any o</i> <i>NOT APP</i>	y plicable (e.g. no studies or no data) uide: t two should be yes, and third category yes if applicable should be yes LY: The first category is yes other PLICABLE: if no studies/no data
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B.4 Were the findings of the relevant studies combined combined) appropriately relative to the primary quest review addresses and the available data? How was the data analysis done? Descriptive only Vote counting based on direction of effect Description of range of effect sizes Meta-analysis Meta-regression Other: specify Not applicable (e.g. no studies or no data) How were the studies weighted in the analysis? Equal weights (this is what is done when vot counting is used) By quality or study design (this is rarely done to counting is used) Number of participants (sample size) Other: specify Not applicable (e.g. no studies or no data) Did the review address unit of analysis errors? Yes - took clustering into account in the anal used intra-cluster correlation coefficient) No, but acknowledged problem of unit of ana errors No mention of issue Not applicable - no clustered trials or studies	ed (or not stion the ce e e) ne in a ysis (e.g. alysis included	 ☐ Yes ☐ Partially ☐ No ☐ Not applicable (e.g. no studies or no data) ☐ Can't tell <i>Coding guide:</i> <i>YES: If appropriate table, graph or meta-analysis AND appropriate weights AND unit of analysis errors addressed (if appropriate).</i> <i>PARTIALLY: If appropriate table, graph or meta-analysis AND appropriate weights AND unit of analysis errors not addressed (and should have been).</i> <i>NO: If narrative OR vote counting (where quantitative analyses would have been possible) OR inappropriate reporting of table, graph or meta-analyses.</i> <i>NOT APPLICABLE: if no studies/no data CAN'T TELL: if unsure (note reasons in comments below)</i>

Comments (note important limitations or uncertainty)

B. 5 Does the review report evidence appropriately? □ The review makes clear which evidence is subject to low risk of bias in assessing causality (attribution of outcomes to intervention), and which is likely to be biased, and does so appropriately □ Where studies of differing risk of bias are included, results are reported and analysed separately by risk of bias status	 Yes No Partially Not applicable Coding guide: YES: Both criteria should be fulfilled (where applicable) NO: Criteria not fulfilled PARTIALLY: Only one criteria fulfilled, or
	when there is limited reporting of quality appraisal (the latter applies only when inclusion criteria for study design are appropriate) NOT APPLICABLE: No included studies
	Note on reporting evidence and risk of bias: For reviews of effects of 'large n' interventions, experimental and quasi- experimental designs should be included (if available). For reviews of effects of 'small n' interventions, designs appropriate to attribute changes to the intervention should be included (e.g. pre-post with assessment of confounders)

Please specify included study designs and any other comments (note important limitations or uncertainty):

C.1 Are there any other aspects of the review not mentioned before which lead you to question the results?	 Additional methodological concerns – only one person reviewing Robustness Interpretation Conflicts of interest (of the review authors or for included studies) Other No other quality issues identified
C.2 Are there any mitigating factors which should be taken into account in determining the reviews reliability?	 Limitations acknowledged No strong policy conclusions drawn (including in abstract/ summary) Any other factors
Use comments to specify if relevant, to flag uncertainty of	or need for discussion

Section C: Overall assessment of the reliability of the review

C.3 Based on the above assessments of the methods please provide a summary of the quality of the review

Strengths and limitations should be summarised above, based on what was noted in Sections A, B and C.

NOTES

ⁱⁱ <u>**Risk of bias**</u> is the extent to which bias may be responsible for the findings of a study.

Bias is a systematic error or deviation from the truth in results or inferences. In studies of the effects of social, economic and health care interventions, the main types of bias arise from systematic differences in the groups that are compared (selection bias), the intervention that is provided, or exposure to other factors apart from the intervention of interest (performance bias/contamination), withdrawals or exclusions of people entered into a study (attrition bias) or how outcomes are assessed (detection bias) and reported (reporting bias). Reviews of social science studies may be particularly affected by reporting bias, where a biased subset of all the relevant data and analyses is presented.

Assessments of the risk of bias are sometimes also referred to as assessments of the **validity** or **quality** of a study.

Validity is the extent to which a result (of a measurement or study) is likely to be true.

<u>Quality</u> is a vague notion of the strength or validity of a study, often indicating the extent of control over bias.

ⁱ Adapted from Supporting the Use of Research Evidence (SURE) Collaboration. SURE checklist for making judgements about how much confidence to place in a systematic review. In: SURE guides for preparing and using policy briefs. <u>www.evipnet.org/sure</u>