

Supplementary Table S1 PRISMA 2020 checklist of the review

Section and Topic	Item #	Checklist item	Location where item is reported
TITLE			
Title	1	Identify the report as a systematic review.	Page 1
ABSTRACT			
Abstract	2	See the PRISMA 2020 for Abstracts checklist.	Page 1
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of existing knowledge.	Page 2-3
Objectives	4	Provide an explicit statement of the objective(s) or question(s) the review addresses.	Page 3
METHODS			
Eligibility criteria	5	Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses.	Table 1
Information sources	6	Specify all databases, registers, websites, organisations, reference lists and other sources searched or consulted to identify studies. Specify the date when each source was last searched or consulted.	Page 4
Search strategy	7	Present the full search strategies for all databases, registers and websites, including any filters and limits used.	Page 4
Selection process	8	Specify the methods used to decide whether a study met the inclusion criteria of the review, including how many reviewers screened each record and each report retrieved, whether they worked independently, and if applicable, details of automation tools used in the process.	Page 4
Data collection process	9	Specify the methods used to collect data from reports, including how many reviewers collected data from each report, whether they worked independently, any processes for obtaining or confirming data from study investigators, and if applicable, details of automation tools used in the process.	Page 4
Data items	10a	List and define all outcomes for which data were sought. Specify whether all results that were compatible with each outcome domain in each study were sought (e.g. for all measures, time points, analyses), and if not, the methods used to decide which results to collect.	Table 1
	10b	List and define all other variables for which data were sought (e.g. participant and intervention characteristics, funding sources). Describe any assumptions made about any missing or unclear information.	Page 4
Study risk of bias assessment	11	Specify the methods used to assess risk of bias in the included studies, including details of the tool(s) used, how many reviewers assessed each study and whether they worked independently, and if applicable, details of automation tools used in the process.	Page 4
Effect measures	12	Specify for each outcome the effect measure(s) (e.g. risk ratio, mean difference) used in the synthesis or presentation of results.	Table 1
Synthesis methods	13a	Describe the processes used to decide which studies were eligible for each synthesis (e.g. tabulating the study intervention characteristics and comparing against the planned groups for each synthesis (item #5)).	Page 4, figure 1
	13b	Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions.	Na
	13c	Describe any methods used to tabulate or visually display results of individual studies and syntheses.	Page 4
	13d	Describe any methods used to synthesize results and provide a rationale for the choice(s). If meta-analysis was performed, describe the model(s), method(s) to identify the presence and extent of statistical heterogeneity, and software package(s) used.	Page 4
	13e	Describe any methods used to explore possible causes of heterogeneity among study results (e.g. subgroup analysis, meta-regression).	Na
	13f	Describe any sensitivity analyses conducted to assess robustness of the synthesized results.	Na
Reporting bias	14	Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases).	Page 4

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assessment			
Certainty assessment	15	Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome.	Na
RESULTS			
Study selection	16a	Describe the results of the search and selection process, from the number of records identified in the search to the number of studies included in the review, ideally using a flow diagram.	Figure 1, Page 5
	16b	Cite studies that might appear to meet the inclusion criteria, but which were excluded, and explain why they were excluded.	Page 5
Study characteristics	17	Cite each included study and present its characteristics.	Table 2
Risk of bias in studies	18	Present assessments of risk of bias for each included study.	Supplementary table 2
Results of individual studies	19	For all outcomes, present, for each study: (a) summary statistics for each group (where appropriate) and (b) an effect estimate and its precision (e.g. confidence/credible interval), ideally using structured tables or plots.	Table 3-6
Results of syntheses	20a	For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies.	Table 2-6
	20b	Present results of all statistical syntheses conducted. If meta-analysis was done, present for each the summary estimate and its precision (e.g. confidence/credible interval) and measures of statistical heterogeneity. If comparing groups, describe the direction of the effect.	NA
	20c	Present results of all investigations of possible causes of heterogeneity among study results.	NA
	20d	Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results.	NA
Reporting biases	21	Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed.	Supplementary table 2
Certainty of evidence	22	Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed.	Results
DISCUSSION			
Discussion	23a	Provide a general interpretation of the results in the context of other evidence.	Page 25-6
	23b	Discuss any limitations of the evidence included in the review.	Page 26
	23c	Discuss any limitations of the review processes used.	Page 26
	23d	Discuss implications of the results for practice, policy, and future research.	Page 26-7
OTHER INFORMATION			
Registration and protocol	24a	Provide registration information for the review, including register name and registration number, or state that the review was not registered.	Page 3
	24b	Indicate where the review protocol can be accessed, or state that a protocol was not prepared.	Page 3
	24c	Describe and explain any amendments to information provided at registration or in the protocol.	NA
Support	25	Describe sources of financial or non-financial support for the review, and the role of the funders or sponsors in the review.	Page 27
Competing interests	26	Declare any competing interests of review authors.	Page 27
Availability of data, code and	27	Report which of the following are publicly available and where they can be found: template data collection forms; data extracted from included studies; data used for all analyses; analytic code; any other materials used in the review.	Page 27

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other materials			

Supplementary Table S2 Results of the quality appraisal conducted using JBI's critical appraisal tools

Food Insecurity Prevalence Studies (primary outcome)										
<i>Was the sample frame appropriate to address the target population?</i>	<i>Were study participants sampled in an appropriate way?</i>	<i>Was the sample size adequate?</i>	<i>Were the study subjects and the setting described in detail?</i>	<i>Was the data analysis conducted with sufficient coverage of the identified sample?</i>	<i>Were valid methods used for the identification of the condition?</i>	<i>Was the condition measured in a standard, reliable way for all participants?</i>	<i>Was there appropriate statistical analysis?</i>	<i>Was the response rate adequate, and if not, was the low response rate managed appropriately?</i>	<i>Overall appraisal:</i>	
[43]	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Include
[37]	Unsure	Unsure	Unsure	Yes	Yes	Yes	Yes	Yes	Unsure	Include
[36]	Yes	Unsure	Yes	Yes	Yes	Yes	Yes	Yes	Unsure	Include
[24]	Unsure	Unsure	Unsure	Yes	Yes	Yes	Yes	Yes	Unsure	Include
Cross sectional studies										
<i>Were the criteria for inclusion in the sample clearly defined?</i>	<i>Were the study subjects and the setting described in detail?</i>	<i>Were objective, standard criteria used for measurement of the condition?</i>	<i>Were confounding factors identified?</i>	<i>Were strategies to deal with confounding factors stated?</i>	<i>Were the outcomes measured in a valid and reliable way?</i>	<i>Was appropriate statistical analysis used?</i>	<i>Overall appraisal:</i>			
[42]	Yes	Yes	Unclear	Yes	Unclear	Unclear	Yes	Include		
[25]	Yes	Yes	Unclear	Yes	Yes	Yes	Yes	Include		
[45]	Unclear	Yes	Yes	Yes	Yes	Unclear	Yes	Include		
[26]	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Include		
[27]	Yes	No	Unclear	Yes	Yes	No	Yes	Include		
[39]	Yes	Yes	Unclear	Yes	Unclear	Yes	Yes	Include		
[28]	Unclear	Yes	Yes	No	No	Yes	Unclear	Include		
[29]	Yes	Yes	Unclear	Unclear	Unclear	Unclear	Unclear	Include		
[41]	Yes	Yes	Unclear	Unclear	Unclear	Unclear	Yes	Include		
[44]	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Include		
[40]	Yes	Yes	Yes	Unclear	Unclear	Yes	Yes	Include		
[30]	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Include		
[31]	Yes	Yes	Unclear	No	No	Unclear	No	Include		
Qualitative and mixed-methods studies										
<i>Is there congruity</i>	<i>Is there congruity</i>	<i>Is there congruity</i>	<i>Is there congruity</i>	<i>Is there congruity</i>	<i>Is there a statement</i>	<i>Is the influence of</i>	<i>Are participants,</i>	<i>Is the research ethical</i>	<i>Do the conclusions</i>	<i>Overall appraisal:</i>

	<i>between the stated philosophical perspective and the research methodology?</i>	<i>between the research methodology and the research question or objectives?</i>	<i>between the research methodology and the methods used to collect data?</i>	<i>between the research methodology and the representation and analysis of data?</i>	<i>between the research methodology and the interpretation of results?</i>	<i>locating the researcher culturally or theoretically?</i>	<i>the researcher on the research, and vice-versa, addressed?</i>	<i>and their voices, adequately represented?</i>	<i>according to current criteria or, for recent studies, and is there evidence of ethical approval by an appropriate body?</i>	<i>drawn in the research report flow from the analysis, or interpretation, of the data?</i>	
[33]	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Include
[32]	Yes	Yes	Yes	Yes	Yes	No	No	Unsure	Yes	Yes	Include
[34]	Yes	Yes	Yes	Yes	Yes	Unsure	Unsure	Yes	Yes	Yes	Include
[38]	No	Yes	Yes	Yes	Yes	Yes	Unsure	Yes	Yes	Yes	Include