Persistent Precarious Employment Systematic Review

Risk of bias template

Data to be recorded	Question	Options	EPHPP notes to reviewer	AP notes to reviewer
Study ID				
ID				
First author				
Year published				
Representativeness of target population	Are the individuals selected to participate in the study likely to be representative of the target population?	Very likely Somewhat likely Not likely Can't tell	Participants are more likely to be representative of the target population if they are randomly selected from a comprehensive list of individuals in the target population (score very likely). They may not be representative if they are referred from a source (e.g. clinic) in a systematic manner (score somewhat likely) or self-referred (score not likely).	This should be the target population of the study rather than the review.
Participation Rate	What percentage of selected individuals agreed to participate?	1 80 - 100% agreement 2 60 – 79% agreement 3 less than 60% agreement 4 Not applicable 5 Can't tell	Refers to the % of subjects in the control and intervention groups that agreed to	For large surveys response rate may be published elsewhere. For administrative data the response rate is likely to be 100%.
Selection Bias Quality		1 Good/Strong 2 Fair/Moderate 3 Poor/Weak	Good: The selected individuals are very likely to be representative of the target population (Q1 is 1) and there is greater than 80% participation (Q2 is 1). Fair: The selected individuals are at least somewhat likely to be representative of the target population (Q1 is 1 or 2); and there is 60 - 79% participation (Q2 is 2). 'Moderate' may also be assigned if Q1 is 1 or 2 and Q2 is 5 (can't tell). Poor: The selected individuals are not likely to be representative of the target population (Q1 is 3); or there is less than 60% participation (Q2 is 3) or selection is not described (Q1 is 4); and the level of participation is not described (Q2 is 5).	Think about importance of individual scores (e.g. how non-response dealt with)

Study Design	Indicate the study design	1 Randomized controlled		Amended from original.
		trial 2 Controlled clinical trial 3 Cohort 4 Case-control or case- crossover 5 Interrupted time series 6 Cross-sectional		Cohort and cross-sectional are most likely designs.
		7 Other specify 8 Can't tell		
Randomized	Was the study described as randomized? If NO, go to Component C.		Score YES, if the authors used words such as random allocation, randomly assigned, and random assignment.	Applies to allocation of exposure rather than sampling frame. Unlikely to have randomized studies in review.
			Score NO, if no mention of randomization is made.	Relatively low importance to this review
Randomized (Method Specified)	If Yes, was the method of randomization described?	1 No 2 Yes	Score YES, if the authors describe any method used to generate a random allocation sequence.	Apply this to sampling frame for observational studies.
			Score NO, if the authors do not describe the allocation method or describe methods of allocation such as alternation, case record numbers, dates of birth, day of the week, and any allocation procedure that is entirely transparent before assignment, such as an open list of random numbers of assignments.	
			If NO is scored, then the study is a controlled clinical trial.	

Randomized (Appropriate)	If Yes, was the method appropriate?	1 No 2 Yes 3 Can't tell	Score YES, if the randomization sequence allowed each study participant to have the same chance of receiving each intervention and the investigators could not predict which intervention was next. Examples of appropriate approaches include assignment of subjects by a central office unaware of subject characteristics, or sequentially numbered, sealed, opaque envelopes. Score NO, if the randomization sequence is open to the individuals responsible for recruiting and allocating participants or providing the intervention, since those individuals can influence the allocation process, either knowingly or unknowingly. If NO is scored, then the study is a controlled clinical trial.	Apply this to sampling frame for observational studies. Added option 3
Study Design Quality			Good: will be assigned to those articles that described RCTs and CCTs. Fair: will be assigned to those that described a cohort analytic study, a case control study, a cohort design, or an interrupted time series. Weak: will be assigned to those that used any other method or did not state the method used.	Typically for this review: Fair = cohort, weak = cross-sectional (depending on exposure design, e.g. a cross-sectional study that includes questions that provide a very detailed employment history may be considered fair)
Group Differences Pre- Exposure	Were there important differences between groups prior to the exposure?	1 Yes 2 No 3 Can't tell	The following are examples of confounders: 1 Race 2 Sex 3 Marital status/family 4 Age 5 SES (income or class) 6 Education 7 Health status 8 Pre-exposure score on outcome measure	Sufficient to list these as covariates. Whether a variable is a confounder or mediator may vary by study. Age and sex should always be adjusted for as a minimum.

% Confounders Controlled	If yes, indicate the percentage of relevant confounders that were controlled (either in the design (e.g. stratification, matching) or analysis)?	1 80 – 100% (most) 2 60 – 79% (some) 3 Less than 60% (few or none) 4 Can't Tell		This is less about confounders are about whether the been.
				Consider study of e.g. are confound sample frame, s
Over adjustment	Is there potential for over-adjustment to have occurred?	1 Yes 2 No 3 Can't tell		Additional quest Can include:
		3 Carri teli		Can include.
				Over adjustmen mediator)
				Unnecessary ov unrelated to exp interest, or relate
				See: Schisterma (https://www.ncl s/PMC2744485
Confounder Quality			Good: will be assigned to those articles that controlled for at least 80% of relevant confounders: (Q1 is 2) or (Q2 is 1); and (Q3 is 2).	Changed to incl
			Fair: will be given to those studies that controlled for 60 – 79% of relevant confounders: (Q1 is 1) and (Q2 is 2); or (Q3 is 2).	
			Poor: will be assigned when less than 60% of relevant confounders were controlled (Q1 is 1) and (Q2 is 3) or control of confounders was not described (Q1 is 3) and (Q2 is 4); and (Q3 is 1 or 3).	
Researcher Awareness	Was (were) the outcome assessor(s) aware of the intervention or exposure status of participants?	1 Yes 2 No 3 Can't tell	(,	Code YES if stu precarious empl
Participants Awareness	Were the study participants aware of the research question?	1 Yes 2 No 3 Can't tell		Code YES if stu precarious empl

out how many are controlled for and more the important ones have

y design, not just analysis unders accounted for by , stratified analysis, natural stion

ent bias (adjusting for

over adjustment (variable xposure and outcome of ated to exposure only)

man et al 2009 cbi.nlm.nih.gov/pmc/article 35/)

clude Q3

study is specifically about ployment.

study is specifically about ployment.

(Q1 is 3 and Q2 is 3).

Additional question (examples include inverse probability weighting, imputation)

Good: will be assigned when the follow-up Amended to reflect additional question rate is 80% or greater (Q1 is 1) and (Q2 and to include moderate scoring for is 1) and (Q3 is 1). studies with 50-59% follow-up and steps

Fair: will be assigned when the follow-up rate is 60 – 79% (Q2 is 2) or (follow-up rate is 50-59% and Q3 is 1) or (Q1 is 4) or (Q2 is 5) or (Q3 is 1).

Poor: will be assigned when a follow-up rate is less than 60% (Q2 is 4 or if the withdrawals and drop-outs were not described (Q1 is No or Q2 is 4); or (Q3 is 2 or 3).

Not Applicable: if Q1 is 4 or Q2 is 5.

Amended to reflect additional question

to minimise potential bias for drop-outs

Wording amended

How good a measure of persistent precarious employment is the exposure measure?

Not a major concern for this review as studies typically observational rather than intervention.

Good: Q2 is 1; Q1 is 1 or 2; Q3 is 2

AP added domain rating

Fair: Q2 is 1; Q2 is 3; Q3 is 2

Poor: Q2 is 2 or 3

Amended from original to include

household

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household

Should match unit of allocation

Good: Q3 is 1; Q1 and 2 are the same

AP added domain rating.

Fair: Q3 is 1; Q1 and 2 are not the same not relevant to review

Allocation status question removed as

Poor: Q3 is 2 or 3

1 STRONG (no WEAK ratings) 2 MODERATE (one WEAK rating) 3 WEAK (two or more WEAK ratings)

Base on global rating rather than

individual scores