

Checklist S2. Quality Assessment Checklist

	Bias	Decision criteria	Score
1	Methods for selecting study participants	Appropriate source population (cases, controls and cohorts) and inclusion or exclusion criteria	1
		Inappropriate source population (cases, controls and cohorts) and inclusion or exclusion criteria	0
		Not reported	0
2	Methods for measuring exposure and outcome variables	Appropriate measurement methods for both exposure(s) and/or outcome(s)	1
		Inappropriate measurement methods for both exposure(s) and/or outcome(s), e.g. did not report the duration of measurement (condom use in past x months)	0
		Not reported	0
3	Design-specific sources of bias (excluding confounding)	Appropriate methods outlined to deal with any design-specific issues such as recall bias, interviewer bias, biased loss to follow or blinding	1
		Inappropriate methods outlined to deal with any design-specific issues such as selection bias, performance bias, attrition bias, detection bias, or reporting bias <ul style="list-style-type: none"> • Did not apply inclusion/exclusion criteria uniformly to all comparison groups • Did not rule out any impact from a concurrent intervention or an unintended exposure that might bias results • The study did not maintain fidelity to the intervention protocol • Outcomes were not assessed and implemented consistently across all study participants 	0
		Not reported	0
4	Methods to control confounding	Appropriate design and/or analytical methods	1
		Inappropriate design and/or analytical methods, and did not consider possible confounding	0
		Not reported	0
5	Statistical methods (excluding control of confounding)	Appropriate use of statistics for primary analysis of effect	1
		Inappropriate use of statistics for primary analysis of effect	0
		Not reported	0
6	Conflict of interest	Declarations of no conflict of interest or identification of funding sources	1
		Reported conflict of interest	0
		Not reported	0