TREND Statement Checklist: Non-randomized evaluations of behavioral and public health interventions

Sectin/Topic	Item No	Check list	Reported on page No
		Title and Abstract	
Title and	١	Information on how unit were allocated to interventions	
Abstract		Structured abstract recommended	
		Information on target population or study sample	
	•	Introduction	•
Background	۲	Scientific background and explanation of rationale	
		Theories used in designing behavioral interventions	
	<u> </u>	Methods	1
Participants	٣	Eligibility criteria for participants, including criteria at different levels in recruitment/sampling plan (e.g., cities, clinics, subjects)	
		Method of recruitment (e.g., referral, self-selection), including the sampling method if a systematic sampling plan was implemented	
		Recruitment setting	
		Settings and locations where the data were collected	
Interventions	٤	Details of the interventions intended for each study condition and how and when they were actually administered, specifically including:	
		Content: what was given?	
		Delivery method: how was the content given?	
		Unit of delivery: how were the subjects grouped during delivery?	
		Deliverer: who delivered the intervention?	
		Setting: where was the intervention delivered?	
		Exposure quantity and duration: how many sessions or episodes or events were intended to be delivered? How long were they intended to last?	
		Time span: how long was it intended to take to deliver the intervention to each unit?	
		Activities to increase compliance or adherence (e.g., incentives)	
Objectives	٥	Specific objectives and hypotheses	
Outcomes	٦	Clearly defined primary and secondary outcome measures	
		Methods used to collect data and any methods used to enhance the quality of measurements	
		Information on validated instruments such as psychometric and biometric properties	
Sample Size	٧	How sample size was determined and, when applicable, explanation of any interim analyses and stopping rules	
Assignment	٨	Unit of assignment (the unit being assigned to study condition, e.g., individual, group, community)	

Method	Method used to assign units to study conditions, including details of any restriction (e.g., blocking, stratification, minimization)	
	Inclusion of aspects employed to help minimize potential bias induced due to non-randomization (e.g., matching)	

Blinding (masking)	٩	Whether or not participants, those administering the interventions, and those assessing the outcomes were blinded to study condition assignment; if so, statement regarding how the blinding was accomplished and how it was assessed.	
Unit of Analysis	١.	Description of the smallest unit that is being analyzed to assess intervention effects (e.g., individual, group, or community) If the unit of analysis differs from the unit of assignment, the analytical method used to account for this (e.g., adjusting the standard error estimates by the design effect or using multilevel analysis)	
Statistical Methods))	Statistical methods used to compare study groups for primary methods outcome(s), including complex methods of correlated data Statistical methods used for additional analyses, such as a subgroup analyses and adjusted analysis Methods for imputing missing data, if used Statistical software or programs used	
Results			
Participant flow	17	Flow of participants through each stage of the study: enrollment, assignment, allocation, and intervention exposure, follow-up, analysis (a diagram is strongly recommended) o Enrollment: the numbers of participants screened for eligibility, found to be eligible or not eligible, declined to be enrolled, and o Assignment: the numbers of participants assigned to a study condition o Allocation and intervention exposure: the number of participants assigned to each study condition and the number of participants o Follow-up: the number of participants who completed the follow-up or did not complete the follow-up (i.e., lost to follow-up), by study condition o Analysis: the number of participants included in or excluded from the main analysis, by study condition Description of protocol deviations from study as planned, along with reasons	
Recruitment	١٣	Dates defining the periods of recruitment and follow-up	
Baseline Data	١٤	Baseline demographic and clinical characteristics of participants in each study condition Baseline characteristics for each study condition relevant to specific disease prevention research Baseline comparisons of those lost to follow-up and those retained, overall and by study condition Comparison between study population at baseline and target population of interest	
Baseline equivalence	10	Data on study group equivalence at baseline and statistical methods used to control for baseline differences	

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Numbers	١٦	Number of participants (denominator) included in each analysis for each	
analyzed		study condition, particularly when the denominators change for different	
		outcomes; statement of the results in absolute numbers when feasible	
		Indication of whether the analysis strategy was "intention to treat" or, if	
		not, description of how non-compliers were treated in the analyses	
Outcomes	1 \	For each primary and secondary outcome, a summary of results for each	
and		estimation study condition, and the estimated effect size and a	
estimation		confidence interval to indicate the precision	
		Inclusion of null and negative findings	
		Inclusion of results from testing pre-specified causal pathways through	
		which the intervention was intended to operate, if any	
Ancillary	١٨	Summary of other analyses performed, including subgroup or restricted	
analyses		analyses, indicating which are pre-specified or exploratory	
Adverse	19	Summary of all important adverse events or unintended effects in each	
events		study condition (including summary measures, effect size estimates, and	
		confidence intervals)	
DISCUSSION	1		
Interpretation	۲.	Interpretation of the results, taking into account study hypotheses,	
		sources of potential bias, imprecision of measures, multiplicative	
		analyses,	
		Discussion of results taking into account the mechanism by which the	
		intervention was intended to work (causal pathways) or alternative	
		mechanisms or explanations	
		Discussion of the success of and barriers to implementing the	
		intervention, fidelity of implementation	
		Discussion of research, programmatic, or policy implications	
Generalizabil	71	Generalizability (external validity) of the trial findings, taking into	
ity		account the study population, the characteristics of the intervention,	
		length of follow-up, incentives, compliance rates, specific sites/settings	
		involved in the study, and other contextual issues	
Overall	77	General interpretation of the results in the context of current evidence	
Evidence		and current theory	

From: Des Jarlais, D. C., Lyles, C., Crepaz, N., & the Trend Group (۲۰۰٤). Improving the reporting quality of nonrandomized evaluations of behavioral and public health interventions: The TREND statement. American Journal of Public Health, ۹٤, ۳٦١-٣٦٦. For more information, visit: http://www.cdc.gov/trendstatement/