## **TREND Statement Checklist**

Paper Section/ Topic	Item	Descriptor	Reported?	
	No		$\checkmark$	Pg#
Title and Abst	ract			
Title and	1	Information on how unit were allocated to interventions		2
Abstract		Structured abstract recommended		2
		Information on target population or study sample		2
Introduction				
Background	2	Scientific background and explanation of rationale		3-4
Duckground	_	Theories used in designing behavioral interventions		NA
		- Theories used in designing behavioral interventions		1111
Methods			I	
Participants	3	Eligibility criteria for participants, including criteria at different levels in		4
		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.		4
		sampling method if a systematic sampling plan was implemented		4-5
		Recruitment setting     Settings and leastings where the data were callected.		
Interventions	4	<ul> <li>Settings and locations where the data were collected</li> <li>Details of the interventions intended for each study condition and how</li> </ul>		4-5
interventions	4	Details of the interventions intended for each study condition and how and when they were actually administered, specifically including:		
		Content: what was given?		4
		Delivery method: how was the content given?		4-5
		<ul> <li>Unit of delivery: how were the subjects grouped during delivery?</li> </ul>		5
		Deliverer: who delivered the intervention?		<u>5</u>
		<ul> <li>Setting: where was the intervention delivered?</li> </ul>		5
		<ul> <li>Exposure quantity and duration: how many sessions or episodes or</li> </ul>		
		events were intended to be delivered? How long were they		5
		intended to last?		
		<ul> <li>Time span: how long was it intended to take to deliver the</li> </ul>		5
		intervention to each unit?		
		Activities to increase compliance or adherence (e.g., incentives)		5
Objectives	5	Specific objectives and hypotheses		5
Outcomes	6	Clearly defined primary and secondary outcome measures		4
		<ul> <li>Methods used to collect data and any methods used to enhance the quality of measurements</li> </ul>		5-7
		<ul> <li>Information on validated instruments such as psychometric and biometric</li> </ul>		
		properties		NA
Sample Size	7	How sample size was determined and, when applicable, explanation of any		NA
•		interim analyses and stopping rules		IVA
Assignment	8	Unit of assignment (the unit being assigned to study condition, e.g.,		
Method		individual, group, community)		5
		Method used to assign units to study conditions, including details of any		5
		restriction (e.g., blocking, stratification, minimization)		
		Inclusion of aspects employed to help minimize potential bias induced due		NA
		to non-randomization (e.g., matching)		147.7

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Blinding	9	Whether or not participants, those administering the interventions, and	
(masking)		those assessing the outcomes were blinded to study condition assignment; if so, statement regarding how the blinding was accomplished and how it was assessed.	NA
Unit of Analysis	10	Description of the smallest unit that is being analyzed to assess intervention effects (e.g., individual, group, or community)	5
		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)	NA
Statistical Methods	11	Statistical methods used to compare study groups for primary methods outcome(s), including complex methods of correlated data	8
		Statistical methods used for additional analyses, such as a subgroup analyses and adjusted analysis	8
		Methods for imputing missing data, if used	NA
		Statistical software or programs used	8
Results			
Participant flow	12	Flow of participants through each stage of the study: enrollment, assignment, allocation, and intervention exposure, follow-up, analysis (a diagram is strongly recommended)	4
		Enrollment: the numbers of participants screened for eligibility, found to be eligible or not eligible, declined to be enrolled, and enrolled in the study	4
		Assignment: the numbers of participants assigned to a study condition	4
		<ul> <li>Allocation and intervention exposure: the number of participants assigned to each study condition and the number of participants who received each intervention</li> </ul>	4
		<ul> <li>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</li> </ul>	4
		<ul> <li>Analysis: the number of participants included in or excluded from the main analysis, by study condition</li> </ul>	4
		<ul> <li>Description of protocol deviations from study as planned, along with reasons</li> </ul>	5
Recruitment	13	Dates defining the periods of recruitment and follow-up	4
Baseline Data	14	Baseline demographic and clinical characteristics of participants in each study condition	5,9,10
		Baseline characteristics for each study condition relevant to specific disease prevention research	NA
		Baseline comparisons of those lost to follow-up and those retained, overall and by study condition	NA
		Comparison between study population at baseline and target population of interest	NA
Baseline	15	Data on study group equivalence at baseline and statistical methods used	

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Numbers analyzed	16	Number of participants (denominator) included in each analysis for each study condition, particularly when the denominators change for different outcomes; statement of the results in absolute numbers when feasible	9-10
		<ul> <li>Indication of whether the analysis strategy was "intention to treat" or, if not, description of how non-compliers were treated in the analyses</li> </ul>	NA
Outcomes and estimation	17	For each primary and secondary outcome, a summary of results for each estimation study condition, and the estimated effect size and a confidence interval to indicate the precision	10
		Inclusion of null and negative findings	NA
		Inclusion of results from testing pre-specified causal pathways through which the intervention was intended to operate, if any	NA
Ancillary analyses	18	Summary of other analyses performed, including subgroup or restricted analyses, indicating which are pre-specified or exploratory	12-13
Adverse events	19	Summary of all important adverse events or unintended effects in each study condition (including summary measures, effect size estimates, and confidence intervals)	12-13
DISCUSSION			
Interpretation	20	Interpretation of the results, taking into account study hypotheses, sources of potential bias, imprecision of measures, multiplicative analyses, and other limitations or weaknesses of the study	13-18
		Discussion of results taking into account the mechanism by which the intervention was intended to work (causal pathways) or alternative mechanisms or explanations	13-18
		Discussion of the success of and barriers to implementing the intervention, fidelity of implementation	NA
		Discussion of research, programmatic, or policy implications	13-17
Generalizability	21	Generalizability (external validity) of the trial findings, taking into 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	16-1
Overall Evidence	22	General interpretation of the results in the context of current evidence and current theory	13-17

*From:* Des Jarlais, D. C., Lyles, C., Crepaz, N., & the Trend Group (2004). Improving the reporting quality of nonrandomized evaluations of behavioral and public health interventions: The TREND statement. *American Journal of Public Health*, 94, 361-366. For more information, visit: <a href="http://www.cdc.gov/trendstatement/">http://www.cdc.gov/trendstatement/</a>