## **TREND Statement Checklist**

Section/ Topic         No           Title and Abstract         1         Information on how unit were allocated to interventions           Abstract         1         Information on how unit were allocated to interventions           Abstract         1         Information on target population or study sample           Introduction         Information on target population of rationale         Interventions           Background         2         Scientific background and explanation of rationale           Participants         3         Eligibility criteria for participants, including criteria at different levels in recruitment/sampling plan (e.g., cities, clinics, subjects)           Participants         3         Eligibility criteria for participants, including criteria at different levels in recruitment (sampling plan (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         4         Details of the interventions intended for each study condition and how and when they were actually administered, specifically including:		Pg # 1 1 3 3 5 5 5,6 14 14 14 14 14 14 14 15 15
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intended to last?		15 10
<ul> <li>intended to last?</li> <li>Time span: how long was it intended to take to deliver the</li> </ul>		15,16
intervention to each unit?	$ $ $\checkmark$	15,16
<ul> <li>Activities to increase compliance or adherence (e.g., incentives)</li> </ul>	$\checkmark$	15
Objectives 5 • Specific objectives and hypotheses	$\overline{\checkmark}$	5,6
Outcomes 6 • Clearly defined primary and secondary outcome measures	, V	5,6
<ul> <li>Methods used to collect data and any methods used to enhance the</li> </ul>	i	
quality of measurements		17
Information on validated instruments such as psychometric and biometric	,	
properties	$\checkmark$	17
Sample Size7•How sample size was determined and, when applicable, explanation of any		
interim analyses and stopping rules	$\checkmark$	15
Assignment 8 • Unit of assignment (the unit being assigned to study condition, e.g.,	$\checkmark$	
Method individual, group, community)	<u> </u>	15
<ul> <li>Method used to assign units to study conditions, including details of any restriction (a.g., blocking, stratification, minimization)</li> </ul>	$\checkmark$	15
restriction (e.g., blocking, stratification, minimization)	+	15
<ul> <li>Inclusion of aspects employed to help minimize potential bias induced due to non-randomization (e.g., matching)</li> </ul>	1	13,14,15

## **TREND Statement Checklist**

Blinding (masking)	9	<ul> <li>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</li> </ul>	
		was assessed.	
Unit of Analysis	10	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	11	<ul> <li>Statistical methods used to compare study groups for primary methods</li> </ul>	
Methods	11	outcome(s), including complex methods of correlated data	
		<ul> <li>Statistical methods used for additional analyses, such as a subgroup</li> </ul>	
		analyses and adjusted analysis	
		<ul> <li>Methods for imputing missing data, if used</li> </ul>	
		Statistical software or programs used	
Deculto			I
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)	
		<ul> <li>Enrollment: the numbers of participants screened for eligibility,</li> </ul>	
		found to be eligible or not eligible, declined to be enrolled, and	
		enrolled in the study	
		<ul> <li>Assignment: the numbers of participants assigned to a study condition</li> </ul>	
		<ul> <li>Allocation and intervention exposure: the number of participants</li> </ul>	
		assigned to each study condition and the number of participants	
		who received each intervention	
		<ul> <li>Follow-up: the number of participants who completed the follow-</li> </ul>	
		up or did not complete the follow-up (i.e., lost to follow-up), by	
		study condition	
		<ul> <li>Analysis: the number of participants included in or excluded from</li> </ul>	
		the main analysis, by study condition	
		<ul> <li>Description of protocol deviations from study as planned, along with</li> </ul>	
Recruitment	13	reasons	
Baseline Data	13	<ul> <li>Dates defining the periods of recruitment and follow-up</li> <li>Baseline demographic and clinical characteristics of participants in each</li> </ul>	
Baseline Data	14	<ul> <li>Baseline demographic and clinical characteristics of participants in each study condition</li> </ul>	
		Baseline characteristics for each study condition relevant to specific	
		disease prevention research	
		<ul> <li>Baseline comparisons of those lost to follow-up and those retained, overall</li> </ul>	
		and by study condition	
		<ul> <li>Comparison between study population at baseline and target population</li> </ul>	
		of interest	
	15	• Data on study group equivalence at baseline and statistical methods used	
Baseline			
Baseline equivalence		to control for baseline differences	

## **TREND Statement Checklist**

Numbers	16	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 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	
estimation		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	18	• Summary of other analyses performed, including subgroup or restricted	
analyses		analyses, indicating which are pre-specified or exploratory	
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)	
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	
		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	
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	
Overall	22	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 (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: <u>http://www.cdc.gov/trendstatement/</u>