

TREND Statement Checklist

Paper Section/ Topic	Item No	Descriptor	Reported on Page Number/Line Number	Reported on Section/Paragraph
Title and Abstract				
Title and Abstract	1	• Information on how unit were allocated to interventions	Page1/ Line 1	Title
		• Structured abstract recommended	Page2/ Line 27-48	Abstract
		• Information on target population or study sample	Page2/ Line 31-33	Abstract/Paragraph 2
Introduction				
Background	2	• Scientific background and explanation of rationale	Page3-4/ Line 55-61	Introduction/Paragraph 1
		• Theories used in designing behavioral interventions	Page4-5/ Line 67-78	Introduction/Paragraph 2
Methods				
Participants	3	• Eligibility criteria for participants, including criteria at different levels in recruitment/sampling plan (e.g., cities, clinics, subjects)	Page4/ Line 92-93	Methods/Paragraph 1
		• Method of recruitment (e.g., referral, self-selection), including the sampling method if a systematic sampling plan was implemented	Page4/ Line 89-91	Methods/Paragraph 1
		• Recruitment setting	Page4-5/ Line 93-104	Methods/Paragraph 1
		• Settings and locations where the data were collected	Page4-5/ Line 93-104	Methods/Paragraph 1
Interventions	4	• Details of the interventions intended for each study condition and how and when they were actually administered, specifically including:	Page5-7/ Line 106-131	Methods/Paragraph 2
		o Content: what was given?	Page5/ Line 115	Methods/Paragraph 2
		o Delivery method: how was the content given?	Page5/ Line 118	Methods/Paragraph 2
		o Unit of delivery: how were the subjects grouped during delivery?	Page5/ Line 118	Methods/Paragraph 2
		o Deliverer: who delivered the intervention?	Page6/ Line 129-131	Methods/Paragraph 2
		o Setting: where was the intervention delivered?	Page5/ Line 110-111	Methods/Paragraph 2
		o Exposure quantity and duration: how many sessions or episodes or events were intended to be delivered? How long were they intended to last?	Page6/ Line 124-129	Methods/Paragraph 2

		<ul style="list-style-type: none"> o Time span: how long was it intended to take to deliver the intervention to each unit? 	Page6/ Line 124-129	Methods/Paragraph 2
		<ul style="list-style-type: none"> o Activities to increase compliance or adherence (e.g., incentives) 	Page6/ Line 129-131	Methods/Paragraph 2
Objectives	5	<ul style="list-style-type: none"> • Specific objectives and hypotheses 	Page4/ Line 79-81	Background/Paragraph 3
Outcomes	6	<ul style="list-style-type: none"> • Clearly defined primary and secondary outcome measures 	Page6/ Line 131-133	Methods/Paragraph 2
		<ul style="list-style-type: none"> • Methods used to collect data and any methods used to enhance the quality of measurements 	Page6/ Line 129-131	Methods/Paragraph 2
		<ul style="list-style-type: none"> • Information on validated instruments such as psychometric and biometric properties 	Page6/ Line 141-142	Methods/Paragraph 2
Sample Size	7	<ul style="list-style-type: none"> • How sample size was determined and, when applicable, explanation of any interim analyses and stopping rules 	Page7/ Line 159-160	Methods/Paragraph 3
Assignment Method	8	<ul style="list-style-type: none"> • Unit of assignment (the unit being assigned to study condition, e.g., individual, group, community) 	Page7/ Line 160-161	Methods/Paragraph 3
		<ul style="list-style-type: none"> • Method used to assign units to study conditions, including details of any restriction (e.g., blocking, stratification, minimization) 	Page7/ Line 160-161	Methods/Paragraph 3
		<ul style="list-style-type: none"> • Inclusion of aspects employed to help minimize potential bias induced due to non-randomization (e.g., matching) 	Page7/ Line 160-161	Methods/Paragraph 3
Blinding (masking)	9	<ul style="list-style-type: none"> • 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. 	Page6/ Line 129-131	Methods/Paragraph 2
Unit of Analysis	10	<ul style="list-style-type: none"> • Description of the smallest unit that is being analyzed to assess intervention effects (e.g., individual, group, or community) 	Page7/ Line 160-161	Methods/Paragraph 3
		<ul style="list-style-type: none"> • 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) 	Page7/ Line 155-161	Methods/Paragraph 3
Statistical Methods	11	<ul style="list-style-type: none"> • Statistical methods used to compare study groups for primary methods outcome(s), including complex methods of correlated data 	Page7/ Line 164-167	Methods/Paragraph 4
		<ul style="list-style-type: none"> • Statistical methods used for additional analyses, such as a subgroup analyses and adjusted analysis 	Page7/ Line 167-168	Methods/Paragraph 4
		<ul style="list-style-type: none"> • Methods for imputing missing data, if used 	/	/
		<ul style="list-style-type: none"> • Statistical software or programs used 	Page8/ Line 170-171	Methods/Paragraph 4
Results				
Participant flow	12	<ul style="list-style-type: none"> • Flow of participants through each stage of the study: enrollment, assignment, allocation, and intervention exposure, follow-up, analysis (a diagram is strongly recommended) 	Page8/ Line 174-175	Results/Paragraph 1
		<ul style="list-style-type: none"> o Enrollment: the numbers of participants screened for eligibility, found to be eligible or not eligible, declined to be enrolled, and enrolled in the study 	Page8/ Line 174-175	Results/Paragraph 1

		<ul style="list-style-type: none"> o Assignment: the numbers of participants assigned to a study condition 	Page8/ Line 174-175	Results/Paragraph 1
		<ul style="list-style-type: none"> o Allocation and intervention exposure: the number of participants assigned to each study condition and the number of participants who received each intervention 	Page8/ Line 174-175	Results/Paragraph 1
		<ul style="list-style-type: none"> 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 	Page8/ Line 174-175	Results/Paragraph 1
		<ul style="list-style-type: none"> o Analysis: the number of participants included in or excluded from the main analysis, by study condition 	Page8/ Line 174-175	Results/Paragraph 1
		<ul style="list-style-type: none"> • Description of protocol deviations from study as planned, along with reasons 	Page8/ Line 174-175	Results/Paragraph 1
Recruitment	13	<ul style="list-style-type: none"> • Dates defining the periods of recruitment and follow-up 	Page8/ Line 174-175	Results/Paragraph 1
Baseline Data	14	<ul style="list-style-type: none"> • Baseline demographic and clinical characteristics of participants in each study condition 	Page8/ Line 174-175	Results/Paragraph 1
		<ul style="list-style-type: none"> • Baseline characteristics for each study condition relevant to specific disease prevention research 	Page8/ Line 174-175	Results/Paragraph 1
		<ul style="list-style-type: none"> • Baseline comparisons of those lost to follow-up and those retained, overall and by study condition 	Page8/ Line 174-175	Results/Paragraph 1
		<ul style="list-style-type: none"> • Comparison between study population at baseline and target population of interest 	Page8/ Line 174-175	Results/Paragraph 1
Baseline equivalence	15	<ul style="list-style-type: none"> • Data on study group equivalence at baseline and statistical methods used to control for baseline differences 	Page8/ Line 174-175	Results/Paragraph 1
Numbers analyzed	16	<ul style="list-style-type: none"> • 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 	Page8/ Line 174-175	Results/Paragraph 1
		<ul style="list-style-type: none"> • Indication of whether the analysis strategy was “intention to treat” or, if not, description of how non-compliers were treated in the analyses 	Page8/ Line 174-175	Results/Paragraph 1
Outcomes and estimation	17	<ul style="list-style-type: none"> • 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 	Page8/ Line 186-190	Results/Paragraph 2
		<ul style="list-style-type: none"> • Inclusion of null and negative findings 	Page8/ Line 190-191	Results/Paragraph 2
		<ul style="list-style-type: none"> • Inclusion of results from testing pre-specified causal pathways through which the intervention was intended to operate, if any 	Page8/ Line 190-191	Results/Paragraph 2
Ancillary analyses	18	<ul style="list-style-type: none"> • Summary of other analyses performed, including subgroup or restricted analyses, indicating which are pre-specified or exploratory 	Page9/ Line 192-199	Results/Paragraph 3
Adverse events	19	<ul style="list-style-type: none"> • Summary of all important adverse events or unintended effects in each study condition (including summary measures, effect size estimates, and confidence intervals) 	Page9-10/ Line 202-216	Discussion/Paragraph 1

DISCUSSION				
Interpretation	20	<ul style="list-style-type: none"> • 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 	Page9-10/ Line 202-216	Discussion/Paragraph 1
		<ul style="list-style-type: none"> • Discussion of results taking into account the mechanism by which the intervention was intended to work (causal pathways) or alternative mechanisms or explanations 	Page10/Line 216-223	Discussion/Paragraph 1
		<ul style="list-style-type: none"> • Discussion of the success of and barriers to implementing the intervention, fidelity of implementation 	Page9/Line 202-208	Discussion/Paragraph 1
		<ul style="list-style-type: none"> • Discussion of research, programmatic, or policy implications 	Page9-10/Line 208-216	Discussion/Paragraph 1
Generalizability	21	<ul style="list-style-type: none"> • 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 	Page10-11/Line 224-236	Discussion/Paragraph 2
Overall Evidence	22	<ul style="list-style-type: none"> • General interpretation of the results in the context of current evidence and current theory 	Page11/Line 237-241	Discussion/Paragraph 3

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: <http://www.cdc.gov/trendstatement/>

Article information: <https://dx.doi.org/10.21037/jtd-22-412>

*As the checklist was provided upon initial submission, the page number/line number reported may be changed due to copyediting and may not be referable in the published version. In this case, the section/paragraph may be used as an alternative reference.