#### **TREND Statement Checklist**

Paper Section/ Topic	ltem 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		
		Structured abstract recommended		
		Information on target population or study sample		
Introduction				
Background 2		Scientific background and explanation of rationale		
		Theories used in designing behavioral interventions		
Methods				
Participants	3	• 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	4	• Details of the interventions intended for each study condition and how and when they were actually administered, specifically including:		
		o Content: what was given?		
		o Delivery method: how was the content given?		
		o Unit of delivery: how were the subjects grouped during delivery?		
		o Deliverer: who delivered the intervention?		
		o Setting: where was the intervention delivered?		
		o Exposure quantity and duration: how many sessions or episodes or events were intended to be delivered? How long were they intended to last?		

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		o Time span: how long was it intended to take to deliver the intervention to each unit?		
		o Activities to increase compliance or adherence (e.g., incentives)		
Objectives	5	Specific objectives and hypotheses		
Outcomes	6	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	7	How sample size was determined and, when applicable, explanation of any interim analyses and stopping rules		
Assignment	8	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)	9	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	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 Methods	11	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	12	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 enrolled in the study		

		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 who received each intervention		
		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	13	Dates defining the periods of recruitment and follow-up		
Baseline Data	14	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	15	Data on study group equivalence at baseline and statistical methods used to control for baseline differences		
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		
		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 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 analyses	18	Summary of other analyses performed, including subgroup or restricted 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)		
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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 Evidence	22	General interpretation of the results in the context of current 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>

### <u>Materials Design Analysis Reporting (MDAR)</u> Checklist for Authors

The MDAR framework establishes a minimum set of requirements in transparent reporting applicable to studies in the life sciences (see Statement of Task: doi:10.31222/osf.io/9sm4x.). The MDAR checklist is a tool for authors, editors and others seeking to adopt the MDAR framework for transparent reporting in manuscripts and other outputs. Please refer to the MDAR Elaboration Document for additional context for the MDAR framework.

#### **Materials**

Antibodies	Yes (indicate where provided: section/paragraph)	n/a
For commercial reagents, provide supplier name, catalogue number and RRID, if available.		x
Cell materials	Yes (indicate where provided: section/paragraph)	n/a
<b>Cell lines:</b> Provide species information, strain. Provide accession number in repository <b>OR</b> supplier name, catalog number, clone number, <b>OR</b> RRID		X
<b>Primary cultures:</b> Provide species, strain, sex of origin, genetic modification status.		Х
Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
<b>Laboratory animals:</b> Provide species, strain, sex, age, genetic modification status. Provide accession number in repository <b>OR</b> supplier name, catalog number, clone number, <b>OR</b> RRID		X
Animal observed in or captured from the field: Provide species, sex and age where possible		x
<b>Model organisms:</b> Provide Accession number in repository (where relevant) <b>OR</b> RRID		X
Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
<b>Plants:</b> provide species and strain, unique accession number if available, and source (including location for collected wild specimens)		X
<b>Microbes:</b> provide species and strain, unique accession number if available, and source		X
Human research participants	Yes (indicate where provided: section/paragraph)	n/a
Identify authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	Yes (Methods / Study design and Patient population/ Page 7, Paragraph#3, Line 139-141) - National Commission of Ethics in Research (CAAE: 96392318.4.0000.0071), Brasília-DF, Brazil	
Provide statement confirming informed consent obtained from study participants.	Yes (Methods / Study design and Patient population/ Page 7, Paragraph#3, Line 142-143)	
Report on age and sex for all study participants.	Yes (Table1, Page 21, Line 502)	

### <u>Design</u>

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration number <b>OR</b> cite DOI in manuscript.	NCT03927560 (https://clinicaltrials.gov/ct2/show/NCT03927560)	
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step- by-step protocols are available.		Х
Experimental study design (statistics details)	Yes (indicate where provided: section/paragraph)	n/a
State whether and how the following have been done, <b>or</b> if they were not carried out.		
Sample size determination		X
Randomisation		Х
Blinding		Х
Inclusion/exclusion criteria		х
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was replicated in laboratory		X
Define whether data describe technical or biological replicates		Х
Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	Yes (Methods / Study design and Patient population/ Page 7, Paragraph#3, Line 140-141) - National Commission of Ethics in Research (CAAE: 96392318.4.0000.0071), Brasília-DF, Brazil	
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.		X
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.		X
Dual Use Research of Concern (DURC)	Yes (indicate where provided: section/paragraph)	n/a
If study is subject to dual use research of concern, state the authority granting approval and reference number for the regulatory approval		Х

# <u>Analysis</u>

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is excluded, and whether the criteria for exclusion were determined and specified in advance.		Х
Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of tests.	Yes (Methods/ Performance goals statistical considerations section; Page 12, Paragraph #4, line 259-266)	
Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available, including protocols for access or restriction on access.	(Methods / Study design and Patient population/ Page 7, Paragraph#3, Line 139-141) Institutional review board of Hospital Israelita Albert Einstein, Sao Paulo-SP, Brazil and by the National Commission of Ethics in Research (CAAE: 96392318.4.0000.0071), Brasília-DF, Brazil	
If data are publicly available, provide accession number in repository or DOI or URL.		Х
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.		X
Code Availability	Yes (indicate where provided: section/paragraph)	n/a
For all newly generated code and software essential for replicating the main findings of the study:		
State whether the code or software is available.		Х
If code is publicly available, provide accession number in repository, or DOI or URL.		Х

# **Reporting**

Adherence to community standards	Yes (indicate where provided: section/paragraph)	n/a
MDAR framework recommends adoption of discipline-specific guidelines, established and endorsed through community initiatives. Journals have their own policy about requiring specific guidelines and recommendations to complement MDAR.		
State if relevant guidelines (eg., ICMJE, MIBBI, ARRIVE) have been followed, and whether a checklist (eg., CONSORT, PRISMA, ARRIVE) is provided with the manuscript.	Yes, ICMJE, and TREND (Transparent Reporting of Evaluations with Nonrandomized Designs) reporting checklist.	

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