		ol and Polated Documents*

Administrative information Title Trial registration Protocol version Funding	1 2a 2b	Descriptive title identifying the study design, population, interventions, and, if applicable, trial acronym Trial identifier and registry name. If not yet registered, name of intended registry
Trial registration Protocol version Funding	2a	
Funding	20	All items from the World Health Organization Trial Registration Data Set (Appendix Table, available at
	3	www.annals.org) Date and version identifier
	4 5a	Sources and types of financial, material, and other support
Roles and responsibilities	5b	Names, affiliations, and roles of protocol contributors Name and contact information for the trial sponsor
	5c	Role of study sponsor and funders, if any, in study design; collection, management, analysis, and interpretation of dat writing of the report; and the decision to submit the report for publication, including whether they will have ultima authority over any of these activities
	5d	Composition, roles, and responsibilities of the coordinating center, steering committee, end point adjudication committee, data management team, and other individuals or groups overseeing the trial, if applicable (see item 21a for DMC)
Introduction Background and rationale	6a	Description of research question and justification for undertaking the trial, including summary of relevant studies (published and unpublished) examining benefits and harms for each intervention
	6b	Explanation for choice of comparators
Objectives Trial design	7 8	Specific objectives or hypotheses Description of trial design, including type of trial (e.g., parallel group, crossover, factorial, single group), allocation rat and framework (e.g., superiority, equivalence, noninferiority, exploratory)
Methods Participants, interventions,		
and outcomes Study setting	9	Description of study settings (e.g., community clinic, academic hospital) and list of countries where data will be
Eligibility criteria	10	collected. Reference to where list of study sites can be obtained Inclusion and exclusion criteria for participants. If applicable, eligibility criteria for study centers and individuals who w
Interventions	11a	perform the interventions (e.g., surgeons, psychotherapists) Interventions for each group with sufficient detail to allow replication, including how and when they will be
	11b	administered Criteria for discontinuing or modifying allocated interventions for a given trial participant (e.g., drug dose change in
	11c	response to harms, participant request, or improving/worsening disease) Strategies to improve adherence to intervention protocols, and any procedures for monitoring adherence (e.g., drug tablet return, laboratory tests)
Outcomes	11d 12	Relevant concomitant care and interventions that are permitted or prohibited during the trial Primary, secondary, and other outcomes, including the specific measurement variable (e.g., systolic blood pressure),
Outcomes	12	analysis metric (e.g., change from baseline, final value, time to event), method of aggregation (e.g., median, proportion), and time point for each outcome. Explanation of the clinical relevance of chosen efficacy and harm outcomes is strongly recommended
Participant timeline	13	Time schedule of enrollment, interventions (including any run-ins and washouts), assessments, and visits for participants. A schematic diagram is highly recommended (Figure)
Sample size	14	Estimated number of participants needed to achieve study objectives and how it was determined, including clinical an
Recruitment	15	statistical assumptions supporting any sample size calculations Strategies for achieving adequate participant enrollment to reach target sample size
Assignment of interventions (for controlled trials)		
Allocation Sequence generation	16a	Method of generating the allocation sequence (e.g., computer-generated random numbers), and list of any factors for stratification. To reduce predictability of a random sequence, details of any planned restriction (e.g., blocking) should be a stratification.
Allocation concealment mechanism	16b	be provided in a separate document that is unavailable to those who enroll participants or assign interventions Mechanism of implementing the allocation sequence (e.g., central telephone; sequentially numbered, opaque, sealed envelopes), describing any steps to conceal the sequence until interventions are assigned
Implementation	16c	Who will generate the allocation sequence, who will enroll participants, and who will assign participants to interventions
Blinding (masking)	17a 17b	Who will be blinded after assignment to interventions (e.g., trial participants, care providers, outcome assessors, data analysts), and how If blinded, circumstances under which unblinding is permissible, and procedure for revealing a participant's allocated
200000000000000000000000000000000000000		intervention during the trial
Data collection, management, and analysis		
Data collection methods	18a	Plans for assessment and collection of outcome, baseline, and other trial data, including any related processes to promote data quality (e.g., duplicate measurements, training of assessors) and a description of study instruments (e.g., questionnaires, laboratory tests) along with their reliability and validity, if known. Reference to where data
	18b	collection forms can be found, if not in the protocol Plans to promote participant retention and complete follow-up, including list of any outcome data to be collected for
Data management	19	participants who discontinue or deviate from intervention protocols. Plans for data entry, coding, security, and storage, including any related processes to promote data quality (e.g., dou data entry; range checks for data values). Reference to where details of data management procedures can be foun
Statistical methods	20a	if not in the protocol Statistical methods for analyzing primary and secondary outcomes. Reference to where other details of the statistical analysis plan can be found, if not in the protocol
	20b	Methods for any additional analyses (e.g., subgroup and adjusted analyses)
Monitoring	20c	Definition of analysis population relating to protocol nonadherence (e.g., as-randomized analysis), and any statistical methods to handle missing data (e.g., multiple imputation)
Data monitoring	21a	Composition of DMC; summary of its role and reporting structure; statement of whether it is independent from the sponsor and competing interests; and reference to where further details about its charter can be found, if not in the protocol. Alternatively, an explanation of why a DMC is not needed
	21b	Description of any interim analyses and stopping guidelines, including who will have access to these interim results are make the final decision to terminate the trial
Harms	22	Plans for collecting, assessing, reporting, and managing solicited and spontaneously reported adverse events and other unintended effects of trial interventions or trial conduct
Auditing	23	Frequency and procedures for auditing trial conduct, if any, and whether the process will be independent from investigators and the sponsor
Ethics and dissemination Research ethics approval	24	Plans for seeking REC/IRB approval
Protocol amendments	25	Plans for communicating important protocol modifications (e.g., changes to eligibility criteria, outcomes, analyses) to relevant parties (e.g., investigators, RECs/IRBs, trial participants, trial registries, journals, regulators)
Consent or assent	26a	Who will obtain informed consent or assent from potential trial participants or authorized surrogates, and how (see item 32)
	26b	Additional consent provisions for collection and use of participant data and biological specimens in ancillary studies, if applicable
Confidentiality Declaration of interests	27	How personal information about potential and enrolled participants will be collected, shared, and maintained in order to protect confidentiality before, during, and after the trial Financial and other competing interests for principal investigators for the overall trial and each study site
Access to data	29	Financial and other competing interests for principal investigators for the overall trial and each study site Statement of who will have access to the final trial data set, and disclosure of contractual agreements that limit such access for investigators
Ancillary and post-trial	30	Provisions, if any, for ancillary and post-trial care, and for compensation to those who suffer harm from trial
care Dissemination policy	31a	participation Plans for investigators and sponsor to communicate trial results to participants, health care professionals, the public, and other relevant groups (e.g., via publication, reporting in results databases, or other data-sharing arrangements)
	31b 31c	including any publication restrictions Authorship eligibility guidelines and any intended use of professional writers Plans, if any, for granting public access to the full protocol, participant-level data set, and statistical code
Appendices		
Informed consent materials Biological specimens	32	Model consent form and other related documentation given to participants and authorized surrogates Plans for collection, laboratory evaluation, and storage of biological specimens for genetic or molecular analysis in the

DMC = data monitoring committee; IRB = institutional review board; REC = research ethics committee; SPIRIT = Standard Protocol Items: Recommendations for Interventional Trials.

*It is strongly recommended that this checklist be read in conjunction with the SPIRIT 2013 Explanation and Elaboration (31) for important clarification on the items. Amendments to the protocol should be tracked and dated. The SPIRIT checklist is copyrighted by the SPIRIT Group and is reproduced with permission.