Appendix 1: SPIRIT 2013 Checklist: recommended items to address in a clinical trial protocol and related documents

Section/item	Item No	Description	Addressed on page number
Administrative in	formation		
Title	1	Descriptive title identifying the study design, population, interventions, and, if applicable, trial acronym	1
Title registration	2a	Trial identifier and registry name. If not yet registered, name of intended registry	3
	2b	All items from the World Health Organization Trial Registration Data Set	3
Protocol version	3	Date and version identifier	Not applicable
Funding	4	Sources and types of financial, material, and other support	23
Roles and	5a	Names, affiliations, and roles of protocol contributors	24
responsibilities	5b	Name and contact information for the trial sponsor	Not applicable
	5c	Role of study sponsor and funders, if any, in study design; collection, management, analysis, and interpretation of data; writing of the report; and the decision to submit the report for publication, including whether they will have ultimate authority over any of these activities	Not applicable
	5d	Composition, roles, and responsibilities of the coordinating centre, steering committee, endpoint adjudication committee, data management team, and other individuals or groups overseeing the trial, if applicable (see Item 21a for data monitoring committee)	15
Introduction			
Background and rationale	ба	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of research question and justification for undertaking the trial, including summary of relevant studies (published and unpublished) examining benefits and harms for each intervention	4-6
	6b	Explanation for choice of comparators	20-21
Objectives	7	Specific objectives or hypotheses	6
Trial design	8	Description of trial design including type of trial (eg, parallel group, crossover, factorial, single group), allocation ratio, and framework (eg, superiority, equivalence, noninferiority, exploratory)	7, 9, 16
Methods: Particip	ants, interv	entions, and outcomes	

Allocation:			
Methods: Assignment of interventions (for controlled trials)			
Recruitment	15	Strategies for achieving adequate participant enrolment to reach target sample size	8
Sample size	14	Estimated number of participants needed to achieve study objectives and how it was determined, including clinical and statistical assumptions supporting any sample size calculations	15-16
timeline		for participants. A schematic diagram is highly recommended	1
Participant	13	Time schedule of enrolment, interventions (including any run-ins and washouts), assessments, and visits	7-8
		chosen efficacy and harm outcomes is strongly recommended	
		(eg, median, proportion), and time point for each outcome. Explanation of the clinical relevance of	
Outcomes	12	Primary, secondary, and other outcomes, including the specific measurement variable (eg, systolic blood pressure), analysis metric (eg, change from baseline, final value, time to event), method of aggregation	13-14, 20-22
	11d	Relevant concomitant care and interventions that are permitted or prohibited during the trial	10
		(eg, drug tablet return, laboratory tests)	
	11c	Strategies to improve adherence to intervention protocols, and any procedures for monitoring adherence	Not applicable
		change in response to harms, participant request, or improving/worsening disease)	
	11b	Criteria for discontinuing or modifying allocated interventions for a given trial participant (eg, drug dose	14-15
moi ventions	114	be administered	10 12
Interventions	11a	Interventions for each group with sufficient detail to allow replication, including how and when they will	10-12
Eligibility criteria	10	Inclusion and exclusion criteria for participants. If applicable, eligibility criteria for study centres and individuals who will perform the interventions (eg, surgeons, psychotherapists)	8
		will be collected. Reference to where list of study sites can be obtained	
Study setting	9	Description of study settings (eg, community clinic, academic hospital) and list of countries where data	8

Sequence	16a	Method of generating the allocation sequence (eg, computer-generated random numbers), and list of any	9
generation		factors for stratification. To reduce predictability of a random sequence, details of any planned restriction	
		(eg, blocking) should be provided in a separate document that is unavailable to those who enroll	
		participants or assign interventions	
Allocation	16b	Mechanism of implementing the allocation sequence (eg, central telephone; sequentially numbered,	9
concealment		opaque, sealed envelopes), describing any steps to conceal the sequence until interventions are assigned	
mechanism			
Implementation	16c	Who will generate the allocation sequence, who will enroll participants, and who will assign participants	9
		to interventions	
Blinding	17a	Who will be blinded after assignment to interventions (eg, trial participants, care providers, outcome	10
(masking)		assessors, data analysts) and how	
	17b	If blinded, circumstances under which unblinding is permissible and procedure for revealing a	Not applicable
		participant's allocated intervention during the trial	
Methods: Data o	collection, m	anagement, and analysis	
Data collection	18a	Plans for assessment and collection of outcome, baseline, and other trial data, including any related	15
methods		processes to promote data quality (eg, duplicate measurements, training of assessors) and a description of	
		study instruments (eg, questionnaires, laboratory tests) along with their reliability and validity, if known.	
		Reference to where data collection forms can be found, if not in the protocol	
	18b	Plans to promote participant retention and complete follow-up, including list of any outcome data to be	14-15
		collected for participants who discontinue or deviate from intervention protocols	
Data	19	Plans for data entry, coding, security, and storage, including any related processes to promote data	15
management		quality (eg, double data entry; range checks for data values). Reference to where details of data	
		management procedures can be found, if not in the protocol	
Statistical	20a	Statistical methods for analyzing primary and secondary outcomes. Reference to where other details of	16-17
methods	1	the statistical analysis plan can be found, if not in the protocol	

	20b	Methods for any additional analyses (eg, subgroup and adjusted analyses)	17
	20c	Definition of analysis population relating to protocol non-adherence (eg, as randomized analysis), and any statistical methods to handle missing data (eg, multiple imputation)	17
Methods: Monito	ring		
Data monitoring	21a	Composition of data monitoring committee (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	15
	21b	Description of any interim analyses and stopping guidelines, including who will have access to these interim results and make the final decision to terminate the trial	Not applicable
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	14-15
Auditing	23	Frequency and procedures for auditing trial conduct, if any, and whether the process will be independent from investigators and the sponsor	15
Ethics and dissen	nination		
Research ethics approval	24	Plans for seeking research ethics committee/institutional review board (REC/IRB) approval	3, 18
Protocol amendments	25	Plans for communicating important protocol modifications (eg, changes to eligibility criteria, outcomes, analyses) to relevant parties (eg, investigators, REC/IRBs, trial participants, trial registries, journals, regulators)	Not applicable
Consent or assent	26a	Who will obtain informed consent or assent from potential trial participants or authorized surrogates, and how (see Item 32)	9
	26b	Additional consent provisions for collection and use of participant data and biological specimens in ancillary studies, if applicable	Not applicable

Confidentiality	27	How personal information about potential and enrolled participants will be collected, shared, and	18
		maintained in order to protect confidentiality before, during, and after the trial	
Declaration of	28	Financial and other competing interests for principal investigators for the overall trial and each study site	23
interests			
Access to data	29	Statement of who will have access to the final trial dataset, and disclosure of contractual agreements that	15
		limit such access for investigators	
Ancillary and	30	Provisions, if any, for ancillary and post-trial care, and for compensation to those who suffer harm from	9, 14
post-trial care		trial participation	
Dissemination	31a	Plans for investigators and sponsor to communicate trial results to participants, healthcare professionals,	18
policy		the public, and other relevant groups (eg, via publication, reporting in results databases, or other data	
		sharing arrangements), including any publication restrictions	
	31b	Authorship eligibility guidelines and any intended use of professional writers	Not applicable
	31c	Plans, if any, for granting public access to the full protocol, participant-level dataset, and statistical code	Not applicable
Appendices	•		
Informed	32	Model consent form and other related documentation given to participants and authorized surrogates	Not applicable
consent			
materials			
Biological	33	Plans for collection, laboratory evaluation, and storage of biological specimens for genetic or molecular	Not applicable
specimens		analysis in the current trial and for future use in ancillary studies, if applicable	
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Note: Amendments to the protocol should be tracked and dated. The SPIRIT checklist belongs to the SPIRIT Group and is reproduced by BMJ with their permission.