

## SPIRIT-Outcomes 2022 Checklist (for combined completion of SPIRIT 2013 and SPIRIT-Outcomes 2022 items)<sup>a</sup>

Section	Item No.	SPIRIT 2013 Item	SPIRIT-Outcomes 2022 item	Location Reported <sup>b</sup>
Administrative in	nformatio	on		1
Title	1	Descriptive title identifying the study design, population, interventions, and, if applicable, trial acronym	-	1
Trial registration	2a	Trial identifier and registry name.  If not yet registered, name of intended registry	-	n/a
	2b	All items from the World Health Organization Trial Registration Data Set	-	
Protocol version	3	Date and version identifier	-	1
Funding	4	Sources and types of financial, material, and other support	-	2
Roles and responsibilities	5a	Names, affiliations, and roles of protocol contributors	-	5 -8
	5b	Name and contact information for the trial sponsor	-	5
	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	-	2, 46
	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)	-	3,4, 8,9,
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of research question and justification for undertaking the trial, including summary of relevant studies (published and unpublished) examining benefits and harms for each intervention	-	12, 20-22
	6b	Explanation for choice of comparators	-	
Objectives	7	Specific objectives or hypotheses	-	22-23



Section	Item No.	SPIRIT 2013 Item	SPIRIT-Outcomes 2022 item	Locaţion Reported <sup>b</sup>
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)	-	
Methods: Partici	pants, in	terventions, and outcomes		12,
Study setting	9	Description of study settings (eg, community clinic, academic hospital) and list of countries where data will be collected. Reference to where list of study sites can be obtained	-	24
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)	-	
Interventions	11a	Interventions for each group with sufficient detail to allow replication, including how and when they will be administered (for specific guidance see TIDieR checklist and guide)	-	<del>12 - 13,</del>
	11b	Criteria for discontinuing or modifying allocated interventions for a given trial participant (eg, drug dose change in response to harms, participant request, or improving/worsening disease)	-	29
	11c	Strategies to improve adherence to intervention protocols, and any procedures for monitoring adherence (eg, drug tablet return, laboratory tests)	-	n/a
	11d	Relevant concomitant care and interventions that are permitted or prohibited during the trial	-	2/
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 (eg, median, proportion), and time point for each outcome. Explanation of the clinical relevance of chosen efficacy and harm outcomes is strongly recommended	-	12 - 13, 29 - 30, 20



				22
Section	Item No.	SPIRIT 2013 Item	SPIRIT-Outcomes 2022 item	Location Reported <sup>b</sup>
	12.1		Provide a rationale for the selection of the domain for the trial's primary outcome	n/a
	12.2		If the analysis metric for the primary outcome represents within-participant change, define and justify the minimal important change in individuals	n/a
	12.3		If the outcome data collected are continuous but will be analyzed as categorical (method of aggregation), specify the cutoff values to be used	29 - 34
	12.4		If outcome assessments will be performed at several time points after randomization, state the time points that will be used for analysis	n/a
	12.5		If a composite outcome is used, define all individual components of the composite outcome	
Participant timeline	13	Time schedule of enrolment, interventions (including any runins and washouts), assessments, and visits for participants. A schematic diagram is highly recommended (see Figure)	-	32, 33
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	-	43
	14.1		Define and justify the target difference between treatment groups (eg, the minimal important difference)	n/a
Recruitment	15	Strategies for achieving adequate participant enrolment to reach target sample size	-	12, 25 - 26
Methods: Assi	gnment of	interventions (for controlled trials)		
Allocation:				
Sequence generation	16a	Method of generating the allocation sequence (eg, computer-generated random numbers), and list of any 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	-	27
		those who enrol participants or assign interventions		



Santian	Item	CDIDIT 2042 Have	CDIDIT Outcomes 2000 to	27 - 28 Location
Section	No.	SPIRIT 2013 Item	SPIRIT-Outcomes 2022 item	Reported <sup>b</sup>
Allocation	16b	Mechanism of implementing the	-	
concealment		allocation sequence (eg, central		
mechanism		telephone; sequentially		
		numbered, opaque, sealed		
		envelopes), describing any steps		27
		to conceal the sequence until		21
Implementation	16c	interventions are assigned		
Implementation	100	Who will generate the allocation sequence, who will enrol	-	
		participants, and who will assign		
		participants to interventions		n/a
				II/a
Blinding	17a	Who will be blinded after	-	
(masking)		assignment to interventions (eg,		
		trial participants, care providers,		
		outcome assessors, data		/
	471-	analysts), and how		n/a
	17b	If blinded, circumstances under	-	
		which unblinding is permissible, and procedure for revealing a		
		participant's allocated intervention		
		during the trial		
Methods: Data o	collection,	management, and analysis		
Data collection	18a	Plans for assessment and	<u>-</u>	12, 26, 28,
methods		collection of outcome, baseline,		34, 47
		and other trial data, including any		
		related 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		
	18a.1	be lound, if flot in the protocol	Describe what is known about the	
	100.1		responsiveness of the study	00
			instruments in a population similar to	30
			the study sample	
	18a.2		Describe who will assess the	
			outcome (eg, nurse, parent)	33
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	18b	Plans to promote participant	-	
		retention and complete follow-up,		
		including list of any outcome data		22, 44
		to be collected for participants who discontinue or deviate from		
		intervention protocols		
		intervention protocols		



	Item		Spipit Outs and Spipit Location		
Section	No.	SPIRIT 2013 Item	SPIRIT-Outcomes 2022 item	Reported <sup>b</sup>	
Data	19	Plans for data entry, coding,	-		
management		security, and storage, including			
		any related processes to promote			
		data quality (eg, double data entry; range checks for data			
		values). Reference to where			
		details of data management			
		procedures can be found, if not in		45	
		the protocol		.0	
Statistical	20a	Statistical methods for analysing	-		
methods		primary and secondary outcomes.			
		Reference to where other details of the statistical analysis plan can			
		be found, if not in the protocol		n/a	
	20a.1	be learly, if flet in the protection	Describe any planned methods to		
			account for multiplicity in the analysis		
			or interpretation of the primary and		
			secondary outcomes (eg, coprimary		
			outcomes, same outcome assessed		
			at multiple time points, or subgroup		
	20b	Methods for any additional	analyses of an outcome)	n/a	
	200	analyses (eg, subgroup and	-		
		adjusted analyses)			
	20c	Definition of analysis population	-	45	
		relating to protocol non-			
		adherence (eg, as randomised			
		analysis), and any statistical			
		methods to handle missing data			
Methods: Monito	ring	(eg, multiple imputation)			
Data monitoring	21a	Composition of data monitoring	_		
Data monitoring	2.0	committee (DMC); summary of its		9, 46	
		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		n/a	
		these interim results and make			
		the final decision to terminate the trial			
Harms	22	Plans for collecting, assessing,	_		
···aiiiio		reporting, and managing solicited			
		and spontaneously reported		44 - 45	
		adverse events and other		44 - 45	
	Ì	unintended effects of trial		1	
		interventions or trial conduct			



	lto so			42	
Section	Item No.	SPIRIT 2013 Item	SPIRIT-Outcomes 2022 item	Location Reported <sup>b</sup>	
Auditing	23	Frequency and procedures for auditing trial conduct, if any, and whether the process will be independent from investigators	-	,	
Ethics and disse	emination	and the sponsor	<u> </u>	47	
Research ethics	24	<del>_</del>	T		
approval	24	Plans for seeking research ethics committee/institutional review board (REC/IRB) approval	-	2	
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)	-	24 - 25	
Consent or assent	26a	Who will obtain informed consent or assent from potential trial participants or authorised 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	-	n/a	
Confidentiality	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	-	40, 47 - 2	
Declaration of interests	28	Financial and other competing interests for principal investigators for the overall trial and each study site	-	n/a	
Access to data	29	Statement of who will have access to the final trial dataset, and disclosure of contractual agreements that limit such access for investigators	-	48 - 49	
Ancillary and post-trial care	30	Provisions, if any, for ancillary and post-trial care, and for compensation to those who suffer harm from trial participation	-	n/a	
Dissemination policy	31a	Plans for investigators and sponsor to communicate trial results to participants, healthcare professionals, the public, and other relevant groups (eg, via publication, reporting in results databases, or other data sharing arrangements), including any	-	50	
	31b	publication restrictions  Authorship eligibility guidelines and any intended use of professional writers	-		



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	31c	Plans, if any, for granting public access to the full protocol, participant-level dataset, and statistical code	-	-
Appendices				
Informed consent materials	32	Model consent form and other related documentation given to participants and authorised surrogates	-	n/a
Biological specimens	33	Plans for collection, laboratory evaluation, and storage of biological specimens for genetic or molecular analysis in the current trial and for future use in ancillary studies, if applicable	-	

<sup>&</sup>lt;sup>a</sup>lt is strongly recommended that this checklist be read in conjunction with the SPIRIT (Standard Protocol Items: Recommendations for Interventional Trials) Statement paper for important clarification on the items. Amendments to the protocol should be tracked and dated. The SPIRIT checklist is copyrighted by the SPIRIT Group under the Creative Commons "Attribution-NonCommercial-NoDerivs 3.0 Unported" license and is reproduced with permission.

b Indicates page numbers and/or manuscript location: to be completed by authors.