

## **Supplementary Material**

Fig a. HAWAII patient pathway.

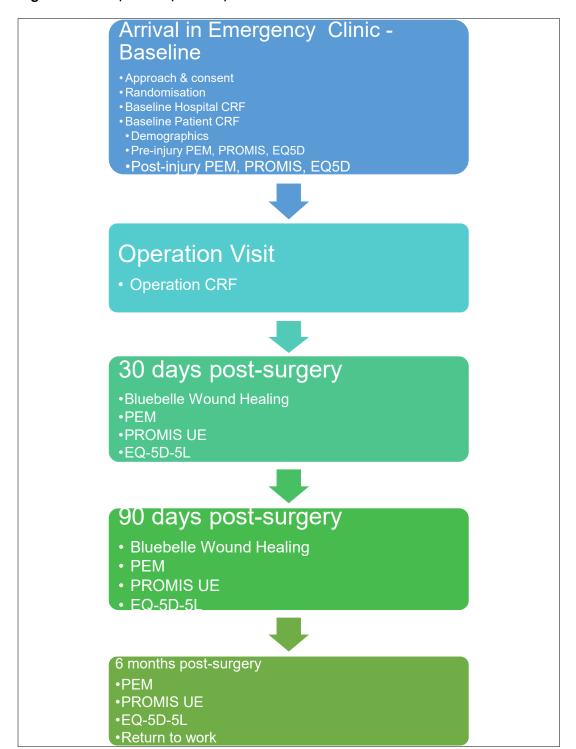


Table i. HAWAII statistical analysis plan.

Objectives	Outcome measures		Analysis
Feasibility outcomes	Number of eligible p	Absolute values	
	Number of participa included in the stud	ants that consent to be Y	Absolute values, % of eligible participants
	Number of eligible prandomised to either control	participants that are er the intervention or	Absolute values, % of consented and eligible participants
	Number of participa outcome measures	ants with completed	SSI: 30 and 90 days - absolute values, % of randomised
			PROMs: 90 days and 6 months - absolute values, % of randomised
	The number of particomplication	icipants that suffer a	Six months - absolute values, % of randomised
Full trial outcomes	Outcome	Outcome measure	Timepoint
	Surgical site infection (SSI)	Bluebelle Wound Healing Questionnaire (WHQ)	30 days - absolute value, % 90 days - absolute value, %
	Hand function	Patient Evaluation Measure (PEM) Part 2 PROMIS Upper Extremity (PROMIS UE)	90 days – mean, SD 6 months – mean, SD
	Health-related quality of life	EQ-5D-5L	30 days – mean, SD 90 days – mean, SD 6 months – mean, SD
	Return to work	Questionnaire	90 days – absolute value, % 6 months – absolute value, %

Table ii. 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 info	ormatio	n	
Title	1	Descriptive title identifying the study design, population, interventions, and, if applicable, trial acronym	
Trial registration	2a	Trial identifier and registry name. If not yet registered, name of intended registry	Title page
	2b	All items from the World Health Organization Trial Registration Data Set	NA
Protocol version	3	Date and version identifier	Title page
Funding	4	Sources and types of financial, material, and other support	Title page
Roles and	5a	Names, affiliations, and roles of protocol contributors	Title page
responsibilities	5b	Name and contact information for the trial sponsor	Full protocol
	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	Full protocol
	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	Full protocol
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	3-4
	6b	Explanation for choice of comparators	3-4
Objectives	7	Specific objectives or hypotheses	5
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)	6
Methods: Participa	ants, inte	erventions, and outcomes	
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	6

Fliaibility aritaria	10	Inclusion and evaluaion evitavia for porticipants. If applicable, clinibility evitavia for study control	7
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)	<b>'</b>
Interventions	11a	Interventions for each group with sufficient detail to allow replication, including how and when	10
IIIIGI VEIILIOIIS	III	they will be administered	10
	11b	Criteria for discontinuing or modifying allocated interventions for a given trial participant (eg, drug	NA
	115	dose change in response to harms, participant request, or improving/worsening disease)	IV/A
	11c	Strategies to improve adherence to intervention protocols, and any procedures for monitoring	11
	110	adherence (eg, drug tablet return, laboratory tests)	
	11d	Relevant concomitant care and interventions that are permitted or prohibited during the trial	10-11
Outcomes	12	Primary, secondary, and other outcomes, including the specific measurement variable (eg, systolic	12
		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	
Participant	13	Time schedule of enrolment, interventions (including any run-ins and washouts), assessments, and	11, Appendix 1
timeline		visits for participants. A schematic diagram is highly recommended (see Figure)	
Sample size	14	Estimated number of participants needed to achieve study objectives and how it was determined,	13
		including clinical and statistical assumptions supporting any sample size calculations	
Recruitment	15	Strategies for achieving adequate participant enrolment to reach target sample size	7
Made also Assisses		ata a sant'a na 16 a sanata Hadi (2 da)	
*	ent ot i	nterventions (for controlled trials)	
Allocation:	16a	Mathed of conserting the allegation appropriate commutes appropriated and down according to	C
Sequence	Toa	Method of generating the allocation sequence (eg, computer-generated random numbers), and list	6
generation		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	
		those who enrol participants or assign interventions	
Allocation	16b	Mechanism of implementing the allocation sequence (eg, central telephone; sequentially	6
concealment	100	numbered, opaque, sealed envelopes), describing any steps to conceal the sequence until	0
mechanism		interventions are assigned	
Implementation	16c	Who will generate the allocation sequence, who will enrol participants, and who will assign	6
mplementation	100	participants to interventions	
Blinding	17a	Who will be blinded after assignment to interventions (eg, trial participants, care providers,	10
(masking)		outcome assessors, data analysts), and how	
	17b	If blinded, circumstances under which unblinding is permissible, and procedure for revealing a	10
		participant's allocated intervention during the trial	
Made ada Diti i "	!		
	1	management, and analysis	10
Data collection	18a	Plans for assessment and collection of outcome, baseline, and other trial data, including any	12
methods		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	
	18b	Plans to promote participant retention and complete follow-up, including list of any outcome data to be collected for participants who discontinue or deviate from intervention protocols	11
Data management	19	Plans for data entry, coding, 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 the protocol	
Statistical methods	20a	Statistical methods for analysing primary and secondary outcomes. Reference to where other details of the statistical analysis plan can be found, if not in the protocol	14
	20b	Methods for any additional analyses (eg, subgroup and adjusted analyses)	14
	20c	Definition of analysis population relating to protocol non-adherence (eg, as randomised analysis), and any statistical methods to handle missing data (eg, multiple imputation)	14
Methods: Monitorir	ng		
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	NA
	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	NA
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	Full protocol
Auditing	23	Frequency and procedures for auditing trial conduct, if any, and whether the process will be independent from investigators and the sponsor	Full protocol
Ethics and dissemir	nation		
Research ethics approval	24	Plans for seeking research ethics committee/institutional review board (REC/IRB) approval	7
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)	Full protocol
Consent or assent	26a	Who will obtain informed consent or assent from potential trial participants or authorised surrogates, and how (see Item 32)	8
	26b	Additional consent provisions for collection and use of participant data and biological specimens in ancillary studies, if applicable	NA
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	Full protocol
Declaration of interests	28	Financial and other competing interests for principal investigators for the overall trial and each study site	Full protocol

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	Full protocol
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	Full protocol
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 publication restrictions	Full protocol
	31b	Authorship eligibility guidelines and any intended use of professional writers	Full protocol
	31c	Plans, if any, for granting public access to the full protocol, participant-level dataset, and statistical code	Full protocol
Appendices			
Informed consent materials	32	Model consent form and other related documentation given to participants and authorised surrogates	On request
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	NA

<sup>\*</sup>It is strongly recommended that this checklist be read in conjunction with the SPIRIT 2013 Explanation & Elaboration 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.