



## THE DISCO TRIAL SPIRIT 2013 Checklist

Section/item	ItemNo	Description	Manuscript page
<b>Administrative information</b>			
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	2 +7
	2b	All items from the World Health Organization Trial Registration Data Set	Registered at <a href="http://clinicaltrials.gov">clinicaltrials.gov</a> , NCT03843931
Protocol version	3	Date and version identifier	27
Funding	4	Sources and types of financial, material, and other support	31
Roles and responsibilities	5a	Names, affiliations, and roles of protocol contributors	31
	5b	Name and contact information for the trial sponsor	1
	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	31
	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)	19-20
<b>Introduction</b>			
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of research question and justification for undertaking the trial, including summary of relevant studies (published and unpublished) examining benefits and harms for each intervention	3-5
	6b	Explanation for choice of comparators	4-5
Objectives	7	Specific objectives or hypotheses	5-6

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)	7-8
<b>Methods: Participants, interventions, and outcomes</b>			
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	7-8
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)	8-9
Interventions	11a	Interventions for each group with sufficient detail to allow replication, including how and when they will be administered	10-13 + Suppl. 2
	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)	10-13 + Suppl. 2
	11c	Strategies to improve adherence to intervention protocols, and any procedures for monitoring adherence (eg, drug tablet return, laboratory tests)	Suppl. 2
	11d	Relevant concomitant care and interventions that are permitted or prohibited during the trial	13-14
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	14-18
Participant timeline	13	Time schedule of enrolment, interventions (including any run-ins and washouts), assessments, and visits for participants. A schematic diagram is highly recommended (see Figure)	Table 2
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	20-21
Recruitment	15	Strategies for achieving adequate participant enrolment to reach target sample size	7-8

**Methods: Assignment 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 those who enrol participants or assign interventions	9-10
Allocation concealment mechanism	16b	Mechanism of implementing the allocation sequence (eg, central telephone; sequentially numbered, opaque, sealed envelopes), describing any steps to conceal the sequence until interventions are assigned	9-10
Implementation	16c	Who will generate the allocation sequence, who will enrol participants, and who will assign participants to interventions	9-10
Blinding (masking)	17a	Who will be blinded after assignment to interventions (eg, trial participants, care providers, outcome assessors, data analysts), and how	9-10
	17b	If blinded, circumstances under which unblinding is permissible, and procedure for revealing a participant's allocated intervention during the trial	This is an open-label trial with no blinding

**Methods: 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 (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	14-19
	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	18 + 25
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	19-20

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	22-23
	20b	Methods for any additional analyses (eg, subgroup and adjusted analyses)	Will be described in a statistical analysis plan
	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)	21-22

**Methods: Monitoring**

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	19-20
	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	19 No interim analyses planned
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	18-19
Auditing	23	Frequency and procedures for auditing trial conduct, if any, and whether the process will be independent from investigators and the sponsor	20-21

**Ethics and dissemination**

Research ethics approval	24	Plans for seeking research ethics committee/institutional review board (REC/IRB) approval	The trial is approved. See page 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)	20 + 29
Consent or assent	26a	Who will obtain informed consent or assent from potential trial participants or authorised 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	No such procedures are planned

THE DISCO TRIAL SPIRIT 2013 Checklist

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	20
Declaration of interests	28	Financial and other competing interests for principal investigators for the overall trial and each study site	30
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	20
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	18-19
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	23
	31b	Authorship eligibility guidelines and any intended use of professional writers	23
	31c	Plans, if any, for granting public access to the full protocol, participant-level dataset, and statistical code	30
<b>Appendices</b>			
Informed consent materials	32	Model consent form and other related documentation given to participants and authorised surrogates	Documents in Danish – not suitable for international publication
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	No specimens are collected

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## INTRA-ARTICULAR SALINE INJECTION INTERVENTION

# TIDieR

The TIDieR (Template for Intervention Description and Replication) Checklist\*:

Template for Intervention  
Description and Replication

Item number	Item	Where located	
		Primary paper (page or appendix number)	Other (details)
	<b>BRIEF NAME</b>		
1.	Provide the name or a phrase that describes the intervention.	<u>12</u>	_____
	<b>WHY</b>		
2.	Describe any rationale, theory, or goal of the elements essential to the intervention.	<u>3-5</u>	_____
	<b>WHAT</b>		
3.	Materials: Describe any physical or informational materials used in the intervention, including those provided to participants or used in intervention delivery or in training of intervention providers. Provide information on where the materials can be accessed (e.g. online appendix, URL).	<u>12-13</u>	_____
4.	Procedures: Describe each of the procedures, activities, and/or processes used in the intervention, including any enabling or support activities.	<u>12-13</u>	_____
	<b>WHO PROVIDED</b>		
5.	For each category of intervention provider (e.g. psychologist, nursing assistant), describe their expertise, background and any specific training given.	<u>12-13</u>	_____
	<b>HOW</b>		
6.	Describe the modes of delivery (e.g. face-to-face or by some other mechanism, such as internet or telephone) of the intervention and whether it was provided individually or in a group.	<u>12-13</u>	_____
	<b>WHERE</b>		
7.	Describe the type(s) of location(s) where the intervention occurred, including any necessary infrastructure or relevant features.	<u>12-13</u>	_____

<b>WHEN and HOW MUCH</b>		
8.	Describe the number of times the intervention was delivered and over what period of time including the number of sessions, their schedule, and their duration, intensity or dose.	<u>12-13</u>
<b>TAILORING</b>		
9.	If the intervention was planned to be personalised, titrated or adapted, then describe what, why, when, and how.	<u>12-13</u>
<b>MODIFICATIONS</b>		
10.	If the intervention was modified during the course of the study, describe the changes (what, why, when, and how).	<u>n/a</u>
<b>HOW WELL</b>		
11.	Planned: If intervention adherence or fidelity was assessed, describe how and by whom, and if any strategies were used to maintain or improve fidelity, describe them.	<u>12-13</u>
12.	Actual: If intervention adherence or fidelity was assessed, describe the extent to which the intervention was delivered as planned.	<u>n/a</u>

## GLAD EXERCISE AND EDUCATION INTERVENTION

# TIDieR The TIDieR (Template for Intervention Description and Replication) Checklist\*:

Template for Intervention  
Description and Replication

Item number	Item	Where located	
		Primary paper (page or appendix number)	Other (details)
	<b>BRIEF NAME</b>		
1.	Provide the name or a phrase that describes the intervention.	<u>10</u>	<u>supplement 2</u>
	<b>WHY</b>		
2.	Describe any rationale, theory, or goal of the elements essential to the intervention.	<u>3-5</u>	<u>supplement 2</u>
	<b>WHAT</b>		
3.	Materials: Describe any physical or informational materials used in the intervention, including those provided to participants or used in intervention delivery or in training of intervention providers. Provide information on where the materials can be accessed (e.g. online appendix, URL).	<u>10-11</u>	<u>supplement 2</u>
4.	Procedures: Describe each of the procedures, activities, and/or processes used in the intervention, including any enabling or support activities.	<u>10-11</u>	<u>supplement 2</u>
	<b>WHO PROVIDED</b>		
5.	For each category of intervention provider (e.g. psychologist, nursing assistant), describe their expertise, background and any specific training given.	<u>10-11</u>	<u>supplement 2</u>
	<b>HOW</b>		
6.	Describe the modes of delivery (e.g. face-to-face or by some other mechanism, such as internet or telephone) of the intervention and whether it was provided individually or in a group.	<u>10-11</u>	<u>supplement 2</u>
	<b>WHERE</b>		
7.	Describe the type(s) of location(s) where the intervention occurred, including any necessary infrastructure or relevant features.	<u>7+ 10-11</u>	<u>supplement 2</u>



<b>WHEN and HOW MUCH</b>			
8.	Describe the number of times the intervention was delivered and over what period of time including the number of sessions, their schedule, and their duration, intensity or dose.	<u>10-11</u>	<u>supplement 2</u>
<b>TAILORING</b>			
9.	If the intervention was planned to be personalised, titrated or adapted, then describe what, why, when, and how.	<u>supplement 2</u>	<u>n/a</u>
<b>MODIFICATIONS</b>			
10.	If the intervention was modified during the course of the study, describe the changes (what, why, when, and how).	<u>n/a</u>	<u>n/a</u>
<b>HOW WELL</b>			
11.	Planned: If intervention adherence or fidelity was assessed, describe how and by whom, and if any strategies were used to maintain or improve fidelity, describe them.	<u>supplement 2</u>	<u>n/a</u>
12.	Actual: If intervention adherence or fidelity was assessed, describe the extent to which the intervention was delivered as planned.	<u>n/a</u>	<u>n/a</u>

# CERT ✓ Consensus on *E*xercise *R*eporting *T*emplate

## THE DISCO TRIAL Checklist for the GLAD Exercise and Education Intervention

Section/Topic	Item #	Checklist item	Location **	
			Primary paper (page, table, appendix)	† Other (paper or protocol, website URL)
<b>WHAT: materials</b>	1	Detailed description of the type of exercise equipment (e.g. weights, exercise equipment such as machines, treadmill, bicycle ergometer etc)	Supplement 2	
<b>WHO: provider</b>	2	Detailed description of the qualifications, teaching/supervising expertise, and/or training undertaken by the exercise instructor	Page 11 + Supplement 2	
<b>HOW: delivery</b>	3	Describe whether exercises are performed individually or in a group	Page 11 + Supplement 2	
	4	Describe whether exercises are supervised or unsupervised and how they are delivered	Page 11 + Supplement 2	
	5	Detailed description of how adherence to exercise is measured and reported	Page 12 + Supplement 2	
	6	Detailed description of motivation strategies	Supplement 2	
	7a	Detailed description of the decision rule(s) for determining exercise progression	Supplement 2	
	7b	Detailed description of how the exercise program was progressed	N/A	
	8	Detailed description of each exercise to enable replication (e.g. photographs, illustrations, video etc)	Supplement 2	
	9	Detailed description of any home program component (e.g. other exercises, stretching etc)	N/A	
	10	Describe whether there are any non-exercise components (e.g. education, cognitive behavioural therapy, massage etc)	Page 10-12 + Supplement 2	

	11	Describe the type and number of adverse events that occurred during exercise	N/A	
<b>WHERE: location</b>	12	Describe the setting in which the exercises are performed	Page 11-12 + Supplement 2	
<b>WHEN, HOW MUCH: dosage</b>	13	Detailed description of the exercise intervention including, but not limited to, number of exercise repetitions/sets/sessions, session duration, intervention/program duration etc	Supplement 2	
<b>TAILORING: what, how</b>	14a	Describe whether the exercises are generic (one size fits all) or tailored whether tailored to the individual	Supplement 2	
	14b	Detailed description of how exercises are tailored to the individual	Supplement 2	
	15	Describe the decision rule for determining the starting level at which people commence an exercise program (such as beginner, intermediate, advanced etc)	Supplement 2	
<b>HOW WELL: planned, actual</b>	16a	Describe how adherence or fidelity to the exercise intervention is assessed/measured	N/A	
	16b	Describe the extent to which the intervention was delivered as planned	N/A	