





### STANDARD OPERATING PROCEDURE FOR RANDOMISATION, BLINDING AND CODE-BREAKING IN CLINICAL RESEARCH

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## 1. PURPOSE

This Standard Operating Procedure (SOP) describes the processes to be followed in research studies which require participants to be randomised to receive one or more interventions.

Blinding of randomisation, when required, is described as the process for unblinding randomised participants.

### 2. SCOPE

This document applies to all randomised controlled research studies sponsored or co-sponsored by the University of Dundee and/or NHS Tayside. Unless otherwise specified in a clinical trial site agreement, this SOP applies to personnel involved in the development or implementation of randomisation and/or blinding and unblinding procedures.

#### **3. RESPONSIBILITIES**

Chief Investigator (CI): production and implementation of the randomisation specification and protocol (can be delegated to an appropriately qualified and trained individual).

Statistician (or other appropriately qualified individual): provide advice on the appropriate randomisation method for the trial and ensure that the schedule is produced and documented.

#### 4. PROCEDURE

### 4.1 Randomisation Procedure

#### Prior to study start

4.1.1 A randomisation service provider, who has no direct contact with the study subjects or involvement with the assessment for eligibility in the study, shall be involved in the development, validation and review of the randomisation method.

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- 4.1.2 The randomisation system used shall be detailed in the study protocol and agreed by the Sponsor prior to study start up.
- 4.1.3 Any stratification and/or minimisation to be included in the randomisation process should be detailed in the protocol.
- 4.1.4 The sequence of allocations shall be random and based on random number generation or other random process. The program and seed number must be documented to ensure that a randomisation can be reproduced if required.
- 4.1.5 Non-random processes, such as alternate allocation, are not acceptable unless by prior agreement with Sponsor.
- 4.1.6 It should not be possible to know in advance what the next allocation will be.
- 4.1.7 In trials of medicinal products, the randomisation system must be compatible with the arrangements for drug delivery systems, packaging and distribution.

## Prior to recruitment

- 4.1.8 The randomisation provider shall provide relevant information, including but not limited to:
  - Method of production of the allocation list/algorithm.
  - The name and job title of the person generating the randomisation list.
  - Any outputs from testing, including the use of test participants where relevant (dynamic randomisation).
  - Guidelines for users.
- 4.1.9 Distribution of electronic and paper copies of the allocation list/algorithm including storage and access control methods and the method by which emergency access to an individual allocation is managed must be documented.
- 4.1.10 A description of the randomisation procedure shall be included in the approved protocol.
- 4.1.11 Any breach of the randomisation procedure shall be notified to the Sponsor following the TASC SOP for Breach Reporting for Clinical Research.

## During recruitment

- 4.1.12 Periodic checks of the randomisation allocation/algorithm should be incorporated to ensure compliance with the protocol. Unusual activity, such as unrestricted access or unusual patterns of randomisation must be documented and accounted for by the CI and notified to the Sponsor Research Governance Manager and Data Safety Monitoring Committee (DSMC) if in place.
- 4.1.13 Any changes to the randomisation system through the course of the study, along with the date when the change becomes active, will be documented.

## 4.2 Blinding of the Investigational Medicinal Product (IMP)

- 4.2.1 The protocol should define if the trial is double-blind, single blind or openlabel.
- 4.2.2 The randomised treatment allocation must be provided to the organisation responsible for packaging and/or labelling the IMP and the location documented in the Trial Master File(TMF).

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Please visit the TASC Website <u>https://www.dundee.ac.uk/tasc/</u> for the latest version of this SOP. Page 2 of 5 4.2.3 For **double-blind trials**, the IMP must be manufactured, packaged, coded and labelled in a manner that protects the blinding. IMP labelling should not make reference to group allocation (e.g. Group A, Group B). Treatment packs should be identified either by unique numbering of each pack, or packs should bear the participant number of the participant for whom they are intended.

### 4.3 Code-breaking/Unblinding

- 4.3.1 Participants receiving treatment should be provided with contact details of the study team.
- 4.3.2 In trials of medicinal products, the unblinding mechanism must be specified in the IMP Management Plan and protocol. Details of how to use the unblinding service must be provided to sites prior to any IMP being delivered.
- 4.3.3 Unblinding should be performed in accordance with the protocol and only in the following circumstances:
  - Immediate Unblinding in an emergency situation.
  - Unblinding to provide required non-emergency medical care which might be incompatible with the trial treatment.
  - Unblinding for Suspected Unexpected Serious Adverse Reaction (SUSAR) reporting to National Competent Authorities (NCA) e.g. The Medicines and Healthcare products Regulatory Agency (MHRA) which approved the study and to the Research Ethics Committee (REC) which provided a favourable ethical opinion. This is usually performed by TASC Pharmacovigilance.
  - Unblinding data for the purpose of notification to a DSMC (see TASC SOP for Creating Reports for the Independent Data Monitoring Committee).
  - Unblinding at the end of the trial for analysis purpose (see TASC SOP on Performing Database Lock).
- 4.3.4 Other than in an emergency situation, any requests for unblinding must be discussed with the CI and Sponsor before the treatment allocation is revealed. Details of all unblinding incidents must be recorded.
- 4.3.5 Care must be taken to ensure that no unnecessary unblinding of the study team occurs. Any intentional or accidental unblinding before the end of the study should be notified to Sponsor following the TASC SOP for Breach Reporting for Clinical Research.
- 4.3.6 Incidences of unblinding must be recorded and provided to the person performing the analysis to add to the Statistical Report.
- 4.3.7 24-hour access to the unblinding mechanism (either web-based or paper copy) must be in place and tested to ensure that it is accessible for each study. Documented procedures for authorised users must be provided for whichever system is used.

#### 5. ABBREVIATIONS & DEFINITIONS

CI Chief Investigator DSMC Data Safety Monitoring Committee

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IMP	Investigational Medicinal Product
MHRA	Medicines and Healthcare products Regulatory Agency
NCA	National Competent Authority
SOP	Standard Operating Procedure
SUSAR	Suspected Unexpected Serious Adverse Reaction
TASC	Tayside Medical Science Centre
TCTU	Tayside Clinical Trials Unit
TMF	Trial Master File

### 6. ASSOCIATED DOCUMENTS & REFERENCES

None

#### 7. DOCUMENT HISTORY

Version	Reviewed By	Effective	Details of editions made:
Number:	(Job Title)	Date:	
His	tory of reviewers prior	to 2014 is de	etailed in the archived SOPs
3	Shona Carson (Clinical Trials Pharmacist), Petra Rauchhaus (Clinical Trials Statistician)	06/05/14	Minor amendments in section 4.1 to reflect TCTU randomisation procedure.
4	Catrina Forde (Senior RGM), Shona Carson (Clinical Trials Pharmacist)	30/05/16	Update regarding randomisation via TCTU TRuST and to clarify unblinding procedure for multi-site trials.
5	Shona Carson (Clinical Trials Pharmacist)	30/05/18	New TASC SOP template format implemented. Text refreshed and inserted into new format. TASC Policy 01 has been withdrawn and reference to it has been removed from text.
6	Valerie Godfrey (TASC QA Manger)	11/12/2018	Change of author. Change of title for SOP to be applicable to all Clinical Research studies. Responsibilities defined in section 3. Code-breaking circumstances listed and described in section 4.3
7	Heather Barclay (Pharmacovigilance Monitor)	11/12/2020	Biennial review. New website added to footer.
8	Margaret Band (Senior Trial Manager)	12/12/2022	Biennial review. Text refreshed. Comment on stratification added (section 4.1.3).

# 8. APPROVALS

Sign		Date
APPROVED BY:	Professor Russell Petty, R&D Director, NHS Tayside	
Signature	L_ ling	07 Dec 2022
APPROVED BY:	Dr Valerie Godfrey, TASC QA Manager, Chair of Clinical Research Guidelines Committee	
Signature	Valerie Godfrey	06 Dec 2022