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<h1>Laboratory Procedures</h1>	
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Version 2.0	24 Jun 2008	Annual Review
Version 3.0	08 Feb 2010	Formation of Joint Research Office
Version 4.0	14 Jul 2011	Annual Review
Version 5.0	03 Dec 2012	Annual Review
Version 6.0	18 Feb 2015	Scheduled Review
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Version 8.0	19 Oct 2020	Scheduled Review Templates removed and administrative changes to SOP. JRCO name change to RGIT

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1. PURPOSE

This SOP focuses on laboratory procedures for clinical trials and other research studies that Imperial College Academic Health Science Centre (AHSC) sponsors. Many clinical trials conducted by Imperial College London or Imperial College Healthcare NHS Trust employees contract the laboratory tests out to certified laboratories. These laboratories have their own SOPs and as such, this SOP will not be an exhaustive operating procedure on all aspects concerning laboratory procedures in clinical trials.

2. INTRODUCTION

It is the responsibility of the Chief Investigator (CI) in the clinical trial to ensure that any laboratory that will be used for the trial is adequate in terms of staff, facilities and equipment for “the foreseen duration of the trial to conduct the trial properly and safely” (ICH GCP 4.2.3 and ICH GCP 5.184b).

The CI should also ensure that the laboratory being used in the study has been verified and is in compliance with accreditation standards.

3. PROCEDURE

It is the responsibility of the Principal Investigator to make sure that before a laboratory is used for the clinical trial, it meets the essential requirements of the relevant UK and EC directives as well as local Trust and Imperial College AHSC policies. The CI should acquire documentation showing the normal value(s)/range(s) for medical/laboratory/technical procedure(s) and/or test(s) included in the study protocol (ICH GCP 8.2.11).

3.1. Laboratory Management

There must be documentation on the competence of the facility to perform the required test(s) and support reliability of results. (ICH GCP 8.2.12). The CI must also ensure that any updates to the normal values or tests are documented and must have documentation of laboratory processes showing:

- certification or
- accreditation or
- established quality control and/or external quality assessment or
- other validation (where required)

Where applicable, a copy of Material Transfer Agreement must be kept and a sample log of any material sending into the laboratory must be maintained.

The laboratory equipment being used for research purposes should be inspected and tested by the local relevant department to ensure it meets the technical and safety requirements before trial start-up, for further information refer to RGIT_SOP_027 this SOP which can be found on the [SOP, Associated Documents & Templates page](#)).

All documentation required for the trial/study have been received in order to ensure the management of the laboratory activities are adequate and can be followed easily. This may involve the creating of work instructions and/or SOPs detailing how a member of the laboratory team can conduct the analysis or evaluation required for the trial.

It is a requirement for the following documents to be maintained within the TMF as stated within the RGIT_TEMP_012 – Essential Documents to be maintained within the TMF documentation:

- Normal Laboratory reference ranges
- Calibration records
- Record of any body fluids/tissues retained (if any)

The CI must ensure that “adverse events and/or laboratory abnormalities identified in the protocol as critical to safety evaluations should be reported to the Sponsor according to the reporting requirements and within the time periods specified by the Sponsor in the protocol” (ICH GCP 4.11.2).

3.2. Sample Management

All samples created, collected and evaluated should be labelled in a way to allow for clear concise identification that has been set in place during the trial design. A process for tracking the movement of each sample from the arrival stage through to the analysis and evaluation of the sample should be implemented and maintained by all the staff involved in the trial.

It is the responsibility of the laboratory team to ensure that the sample storage has been reviewed and the necessary documentation has been created detailing the process for monitoring and measuring of the sample and the equipment’s used i.e. refrigerator, used to refrigerating the samples are placed at a fixed temperature.

Where required, the CI must ensure that the documentations required to record the sample receipt, transfer and destruction has been completed by the appropriate team member.

4. REFERENCES

ICH GCP (1996)

Guideline for GCP – E6(R2)

[Reflection paper for laboratories that perform the analysis or evaluation of clinical trial samples](#)

Essential Documents to be maintained within a TMF - RGIT_TEMP_012