



**TRIAL START UP**  
COLLABORATIVE RESOURCES

# OVERVIEW

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Trial set up processes can vary between CTIMPs and non-CTIMPs. The following advice is general, you should speak to your relevant departmental expert for more tailored guidance.

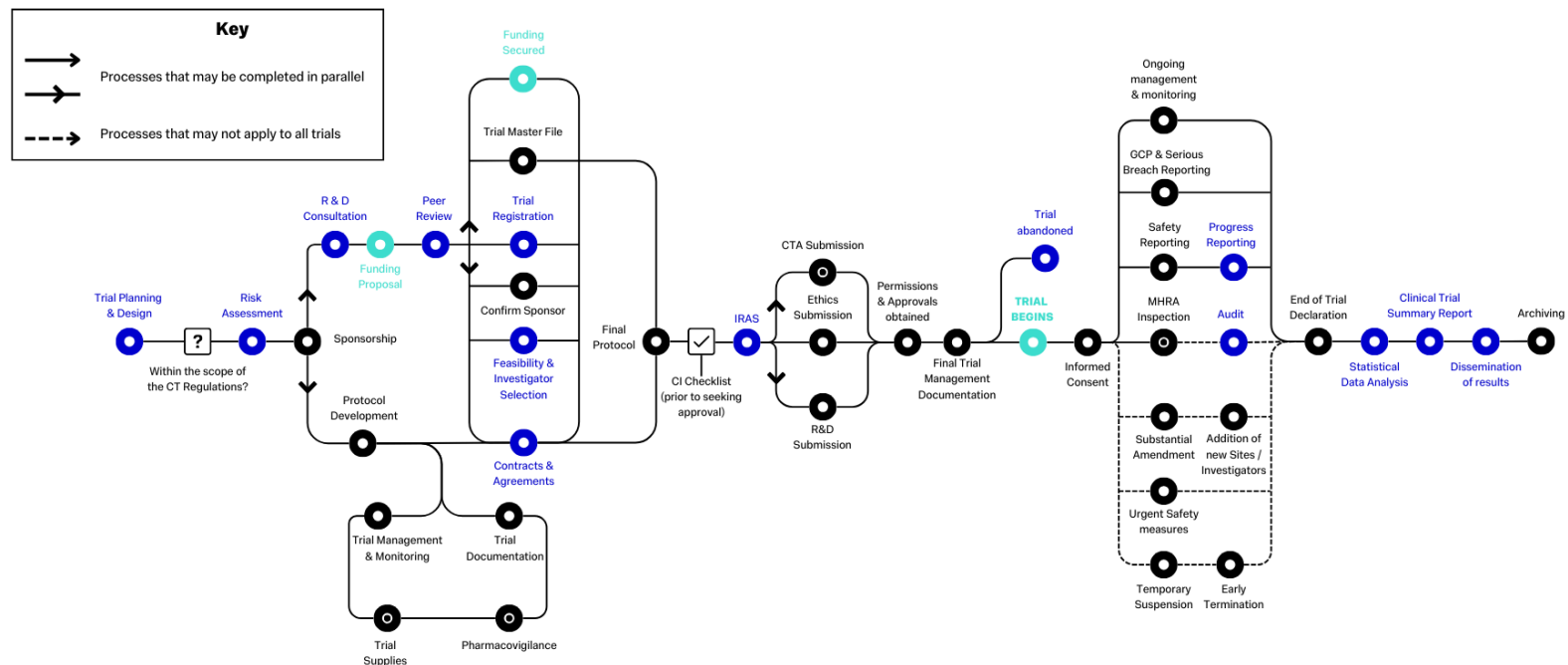
## You should consider:

- **The Research Question** - The nature of the question will determine which regulations the trial must adhere to.
- **Where are you in the trial process?** - The key stages are shown in the pathway on the next page.
- **Organisation and trial team expertise** - Use the following pathway to identify any skills gaps in your team, and see the information on sourcing expertise at Imperial in the following pages.
- **The importance of Patient & Public Involvement** - Consider how best to involve members of the public in your work including using Imperial's PPIE Team.





# THE CLINICAL TRIAL PATHWAY



You can find the original pathway diagram at: <https://www.ct-toolkit.ac.uk/routemap/>

# TRIAL DESIGN & PLANNING

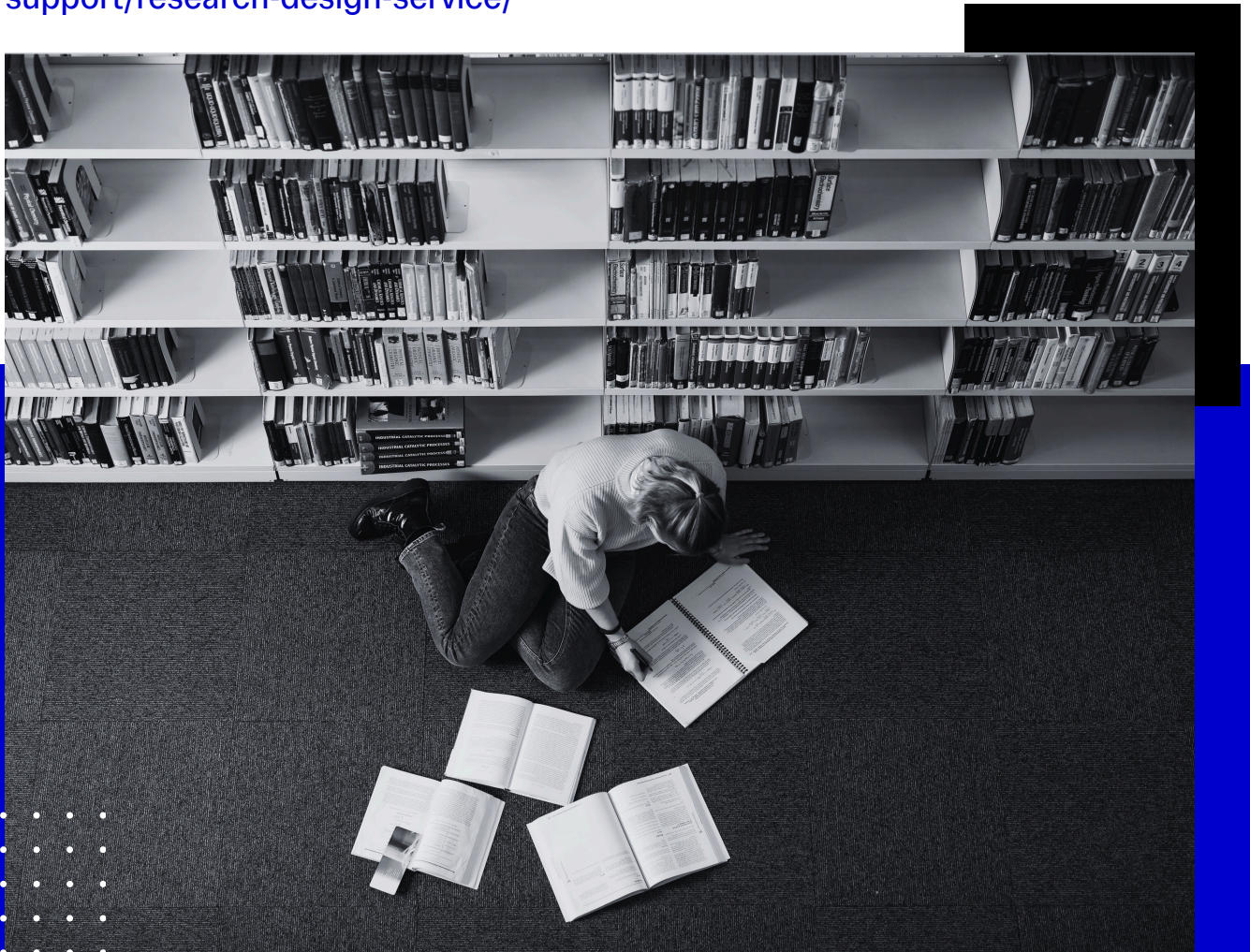
Good study design is important.

The trial design should be considered before the protocol is developed to ensure that all requirements are identified and met, particularly with regard to appropriate funding sources and amounts,

A good study plan will help with the development of funding applications, ethics committee and R&D approvals, NHS approvals, and any other regulatory permissions required.

Imperial offers a research design service that can support the development of your study design:

<https://www.imperial.ac.uk/medicine/fom-staff/support-and-services/research-support/research-design-service/>





# DOCUMENTATION

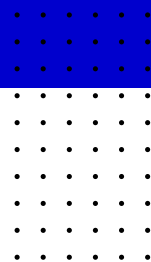
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## In this section:

- Important Documents
- Study Documents



# IMPORTANT DOCUMENTS



## Delegation Log

The Delegation Log is a vital record of the project or study team and designates the responsibilities and permissions of the team for the execution of the project.

The Delegation Log is a good example of a living document. It should be checked regularly for accuracy and should be updated promptly when there are any changes to the project team or their responsibilities.



## Investigator Site File (ISF)

The ISF includes all of the important documentation that demonstrates the project is being undertaken in line with regulatory requirements.

This includes items like the SOP, participant consent forms and information sheets, delegation logs, safety reports, IMP manuals etc. ISFs should be kept at all sites.



## Trial Master File (TMF)

Similar to the ISF, the TMF forms a record of the important project documents, but is usually kept solely at the coordinating project site, under the supervision of the CI or study leads.

The TMF should contain all major documents related to the project, from funding agreements and contracts, to copies of the SOP and participant-facing documents, to the statistical analysis plan.



# IMPORTANT DOCUMENTS



## Research Agreements / Contracts

Written records of agreements with your Sponsor, the research facility or facilities where your project will take place, and any other similar agreements. Some projects will have dissemination agreements which lay out how the results of the project will be made public after the end of the study.



## Funding Agreements

The specific documents recording any funding you are being awarded, the financial amounts, from whom the funding is being provided, and the duration for which the funding is valid. These documents will also cover any stipulations or conditions relating to the funding, such as the items or project needs the funding may be used for.

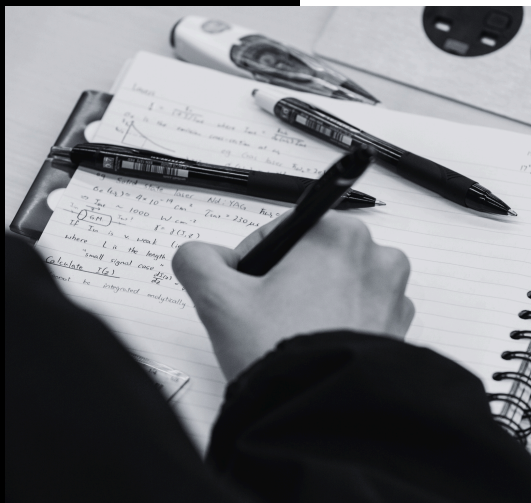


## Record of REC Approval (Favourable Decision)

The official letter of the Research Ethics Committee's approval of your project, also known as a "Favourable Opinion".

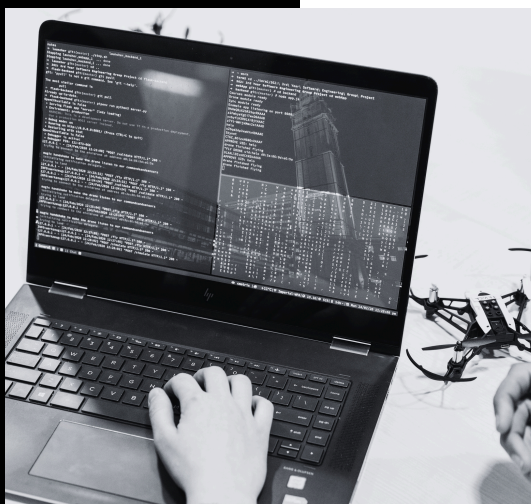
You must have this in place before starting your project.

# IMPORTANT DOCUMENTS



## **Trial Team: CVs**

You must obtain and store the CVs of all team members who will be working on the project so that you have a written record demonstrating the competencies and qualifications of your team.



## **Trial Team: Insurance**

Some team members, usually senior team such as the CI / PI, or clinical staff like doctors and nurse, may require liability insurance to be in place when they work on your study. For clinical staff, this may be taken care of by the NHS or their normal employer.

You may also need more general liability or indemnity insurance for your project - Check with your Sponsor.



## **Trial Team: Training & Certifications**

You should store copies of any training certificates obtained by, or required by, your team. This can include Good Clinical Practice training, First Aid, ANTT training, and data security trainings, amongst others.



# STUDY DOCUMENTS



## Standard Operating Procedures (SOP)

### Manual of Procedures (MOP)

This document includes the full information about the project. It should include a brief summary of the supporting literature, but should primarily focus on the subject of the project, how you plan to carry out the project, and specific items such as participant recruitment criteria, appointment structures, and outputs.



## Participant Information Sheet (PIS)

This is the document that will form the basis of the information prospective participants receive about the project. It should be detailed enough for participants to make an informed choice about joining the project, but should be in clear and easy-to-understand language.



## Participant Information Sheet Summary (PIS-S)

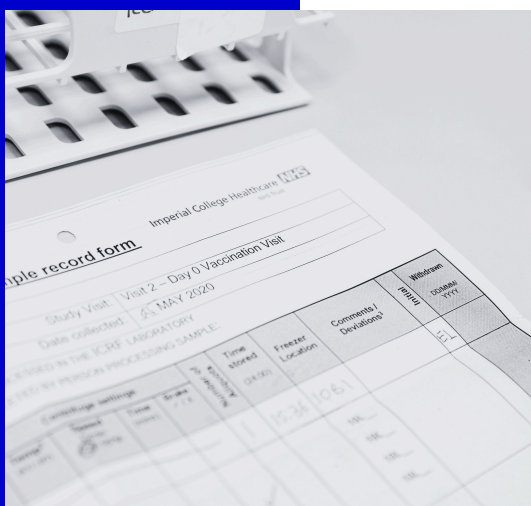
Provided to participants, this document should succinctly summarise the PIS, which may be quite lengthy depending on the project, into a single side of A4. You should try to include all the key information, and should make an effort not to omit any major points.

# STUDY DOCUMENTS



## Consent Form

This form will be read, understood, and signed by participants after they have read the PIS and have had time to ask questions about the project. The consent form should thoroughly record consent for all aspects of participation in the project.



## Case Report Form (CRF / eCRF)

The CRF or eCRF record all data related to the project. They may be completed at participant appointments, and will be the primary data source for the project. The CRF should be thorough, and should be designed to record all relevant data.



## Other information and templates

Imperial-approved templates and further information on study documents can be found at:

<https://www.imperial.ac.uk/research-and-innovation/research-office/research-governance-and-integrity/sop-associated-documents--templates/>



# SPONSOR

The Sponsor is responsible for ensuring appropriate arrangements are in place for:

- The Site Initiation Visit (SIV)
- The management and oversight of the project.
- The overall management of financing the project.

More guidance on the process at Imperial can be found here :

<https://www.imperial.ac.uk/research-and-innovation/research-office/research-governance-and-integrity/project-planning/obtaining-sponsorship/responsibilities-for-imperial-or-icht-as-a-sponsor/>

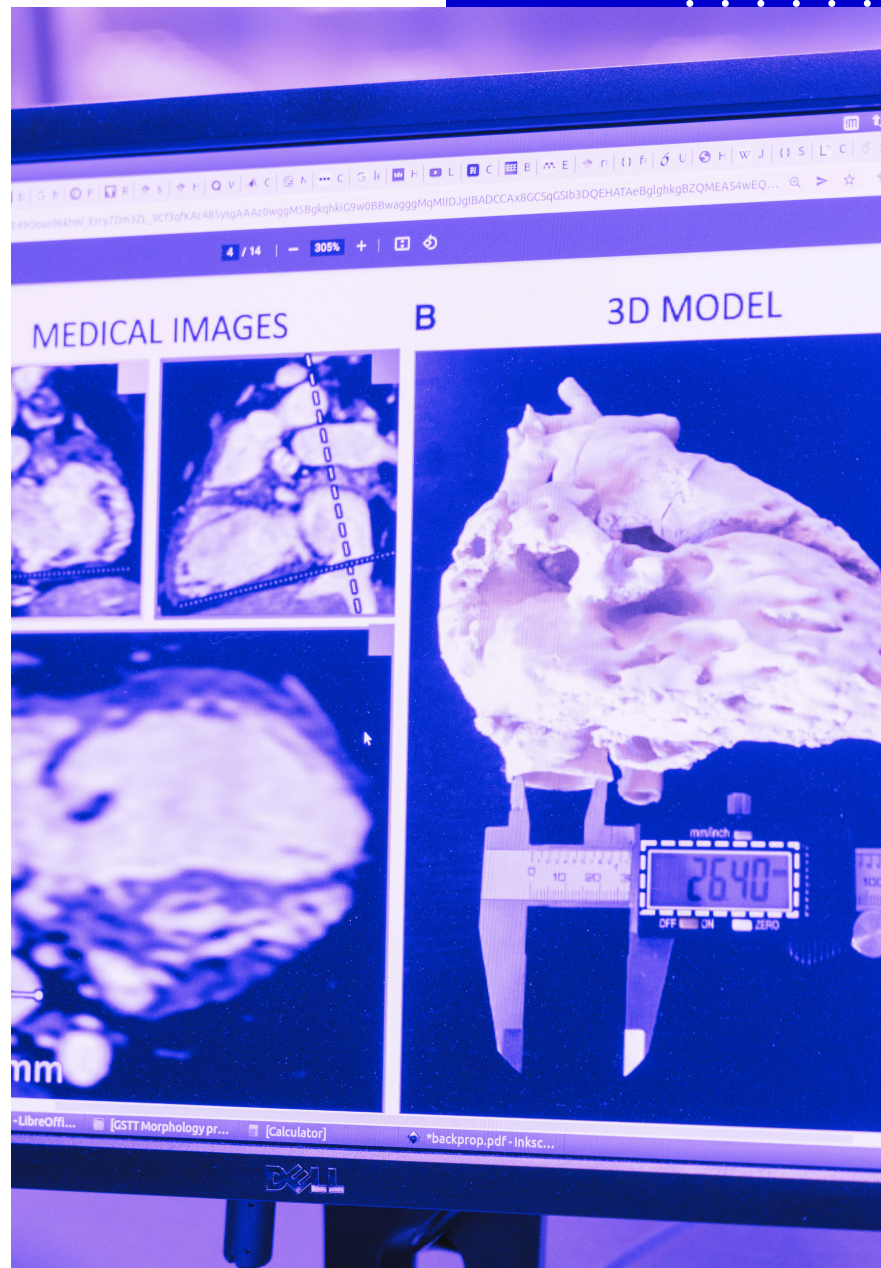


# RESEARCH ETHICS

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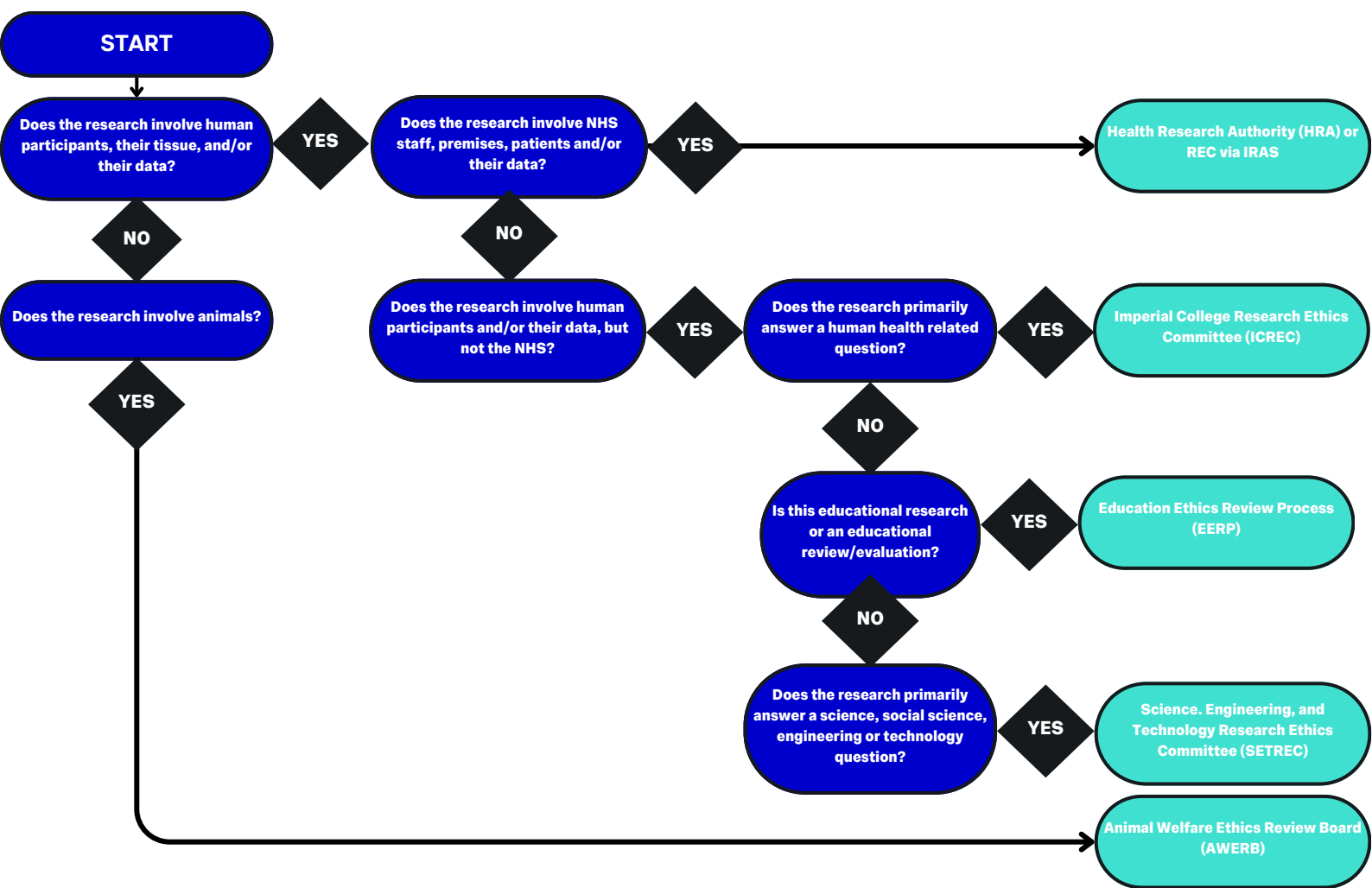
## In this section:

- Do I need to apply for Ethics?
- Research Ethics Committees
- The Integrated Research Application System (IRAS)





# DO I NEED TO APPLY FOR ETHICS?



# RESEARCH ETHICS COMMITTEES



## Health Research Authority RECs via IRAS

HRA RECs mainly assess project proposals for research that uses human participants, and is planned to take place within the NHS.

You can find out more at:

<https://www.hra.nhs.uk/approvals-amendments/what-approvals-do-i-need/research-ethics-committee-review/>



## Imperial College Research Ethics Committee (ICREC)

Imperial College Research Ethics Committee (ICREC) is the College Ethics Committee which reviews health-related research involving human participants and/or their data that is undertaken by Imperial staff or students.

You can find out more at:

<https://www.imperial.ac.uk/research-ethics-committee/committees/icrec/>



## Education Ethics Review Process (EERP)

This process is designed for educational projects, i.e. projects completed as part of education, only.

You can find out more at:

<https://www.imperial.ac.uk/research-and-innovation/support-for-staff/education-ethics/the-eerp-process/>



# RESEARCH ETHICS COMMITTEES



## Science, Engineering and Technology Research Ethics Committee (SETREC)

This committee reviews non-health related research that involves human participants and/or their data. They also review high-risk educational research projects.

You can find out more at:

<https://www.imperial.ac.uk/research-ethics-committee/committees/setrec/>



## Animal Welfare Ethics Review Board (AWERB)

AWERBs review projects that intend to use animal subjects.

You can find out more at:

<https://www.imperial.ac.uk/research-and-innovation/about-imperial-research/research-integrity/ethics/animal/>

You can refer to the following video for an additional explanation of Research Ethics:  
<https://imperial.cloud.panopto.eu/Panopto/Pages/Embed.aspx?id=8ff22531-0c2d-4f05-8498-acb1010e34d2&v=1&autoplay=true>



## THE INTEGRATED RESEARCH APPLICATION SYSTEM (IRAS)

### You will need to prepare:

- **Study documents** including the Study Protocol, Research Agreements, Confirmation of Sponsor, Funding Agreements, Case Report Forms (CRFs) etc.
- For clinical trials using human participants, you will need any and all **participant facing documents** such as the Participant Information Sheet and Consent Forms.
- All details of, and **documents relating to the study team**, including CVs, insurance details (where applicable), and the Delegation Log.
- **Documentation or manuals for any medical devices or medicines** related to the trial.
- **A comprehensive background to the project** including relevant literature, scientific background, and any existing data.
- Guidance on the IRAS can be found at:  
<https://www.myresearchproject.org.uk/help/hlpcollatedqsg-nhsrec.aspx> or  
<https://www.hra.nhs.uk/planning-and-improving-research/policies-standards-legislation/clinical-trials-investigational-medicinal-products-ctimps/combined-ways-working-pilot/step-step-guide-using-iras-combined-ways-working-cwow/>



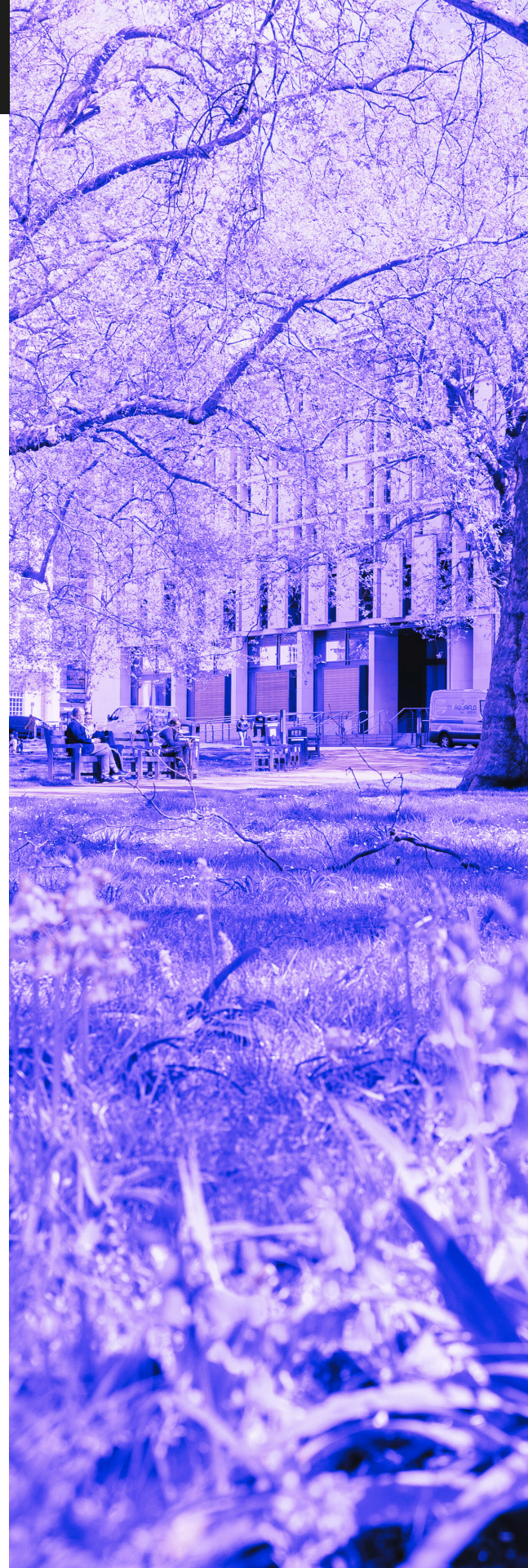
# SITE INITIATION VISIT

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Once all of the relevant approvals are in place, all documentation has been finalised, and all sites have the information they need, the trial can go ahead.

Typically, a site initiation meeting, or “visit”, is held at each site (in person or virtual - **N.B.** The core research team must attend in person where possible). The Chief Investigator is then able to confirm all technical aspects of a trial and that protocol requirements are fully understood by all site staff, and necessary documents are in place.

The visit also provides the site team with an opportunity to ask questions. Trial or facility specific training normally happens at this stage.





# FACILITIES AT IMPERIAL

If you are an Imperial researcher or staff member, or if your project is Sponsored by Imperial, you may be eligible to access the Imperial NHS Trust Clinical Research Facility (ICRF). The ICRF is a clinical facility at Hammersmith Hospital, London, specifically designed to accommodate research projects.

You can find information on the ICRF at:

<https://www.imperial.ac.uk/nih-cr/research/who-can-use-cr/>







## SPINOUTS AT IMPERIAL

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Imperial is committed to supporting spinouts for Imperial-developed innovations. The point at which you spinout will depend on the specific innovation, and any specific project needs.

You can find further guidance on spinouts at Imperial at:  
<https://www.imperial.ac.uk/enterprise/staff/creating-a-spinout-company/imperials-vision-for-spinout-companies/>

# GLOSSARY

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- **CTIMP** – Clinical Trial of Investigational Medicinal Product
- **NON-CTIMP** – Clinical Trial that is not using an Investigational Medicinal Product.
- **PPIE** - Patient and Public Involvement and Engagement
- **RCT** - Randomised Controlled Trial
- **REC** - Research Ethics Committee
- **AWERB** – Animal Welfare Ethics Review Board





# ADDITIONAL READING & RESOURCES

RESOURCE	TOPICS	LOCATION
<b>MEDICAL RESEARCH COUNCIL</b>	Information published by the MRC giving guidelines on conducting research with human participants and their tissues and data.	<a href="https://www.ukri.org/councils/mrc/">https://www.ukri.org/councils/mrc/</a>
<b>NIHR: PLANNING AN RCT</b>	A paper summarising some of the trial activities that would need to be considered.	<a href="https://www.ct-toolkit.ac.uk/documents/planning-a-randomised-controlled-trial-rtc-points-to-consider/27168">https://www.ct-toolkit.ac.uk/documents/planning-a-randomised-controlled-trial-rtc-points-to-consider/27168</a>
<b>NHS RESEARCH &amp; DEVELOPMENT FORUM</b>	The NHS R&D Forum is a network for those involved in managing and supporting R&D in health and social care. Information on key activities and developments is regularly updated.	<a href="https://rdforum.nhs.uk/">https://rdforum.nhs.uk/</a>
<b>NIHR CLINICAL TRIALS GUIDE</b>	Designed to support NIHR trainees interested in getting involved in clinical trials.	<a href="https://www.nihr.ac.uk/documents/clinical-trials-guide/20595">https://www.nihr.ac.uk/documents/clinical-trials-guide/20595</a>
<b>DIRUM</b>	An open-access Database of Instruments for Resource Use Measurement.	<a href="https://www.dirum.org/">https://www.dirum.org/</a>
<b>MULTI-ARM MULTI-STAGE TRIALS</b>	Some recommendations on the design of MaMs	<a href="https://journals.sagepub.com/doi/10.1177/0962280212465498">https://journals.sagepub.com/doi/10.1177/0962280212465498</a>
<b>INFORMING RCTs</b>	Outlines the key issues to consider in the optimal development and review of operational progression criteria for RCTs with an internal pilot phase.	<a href="https://bmjopen.bmj.com/content/bmjopen/7/2/e013537.full.pdf">https://bmjopen.bmj.com/content/bmjopen/7/2/e013537.full.pdf</a>
<b>PILOT STUDIES</b>	Tips for developing and using progression criteria for internal pilot studies.	<a href="https://www.methodologyhubs.mrc.ac.uk/files/1114/8768/7541/Infographic_pilot_studies.pdf">https://www.methodologyhubs.mrc.ac.uk/files/1114/8768/7541/Infographic_pilot_studies.pdf</a>

# ADDITIONAL READING & RESOURCES

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RESOURCE	TOPICS	LOCATION
STATISTICAL ANALYSIS PLANS	Recommendations for a minimum set of items that should be addressed and included in Statistical Analysis Plans for clinical trials.	<a href="https://jamanetwork.com/journals/jama/fullarticle/2666509">https://jamanetwork.com/journals/jama/fullarticle/2666509</a>
AVOIDABLE WASTE IN RESEARCH	Recommendations and guidelines.	<a href="https://www.thelancet.com/journals/lancet/article/PIIS0140-6736%2809%2960329-9/fulltext">https://www.thelancet.com/journals/lancet/article/PIIS0140-6736%2809%2960329-9/fulltext</a> <a href="https://pubmed.ncbi.nlm.nih.gov/24411645/">https://pubmed.ncbi.nlm.nih.gov/24411645/</a>
THE EXPERIMENTAL MEDICINE TOOLKIT (MRC)	Resources supporting research using health data and human tissue samples, designed by the MRC.	
NIHR CENTRE FOR ENGAGEMENT & DISSEMINATION	leads NIHR's work to make health and care research representative, relevant and ready for use. The centre brings together its activities in patient and public involvement (PPI), engagement and participation with its strengths in research dissemination.	<a href="https://www.sscr.nihr.ac.uk/nihrs-new-centre-for-engagement-and-dissemination/">https://www.sscr.nihr.ac.uk/nihrs-new-centre-for-engagement-and-dissemination/</a>
PATIENT & PUBLIC INVOLVEMENT (PPI)	Resources relating to Patient & Public Involvement	<a href="https://www.nihr.ac.uk/documents/ppi-patient-and-public-involvement-resources-for-applicants-to-nihr-research-programmes/23437">https://www.nihr.ac.uk/documents/ppi-patient-and-public-involvement-resources-for-applicants-to-nihr-research-programmes/23437</a> <a href="https://pubmed.ncbi.nlm.nih.gov/25475243/">https://pubmed.ncbi.nlm.nih.gov/25475243/</a> <a href="https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4459695/">https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4459695/</a>



# ADDITIONAL READING & RESOURCES

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RESOURCE	TOPICS	LOCATION
<b>PATIENT &amp; PUBLIC INVOLVEMENT (PPI)</b> CONTINUED	Information on how to find PPI volunteers.	<a href="https://www.peopleinresearch.org/">https://www.peopleinresearch.org/</a>
	Showcases a range of different experiences in healthcare including participation and involvement in health research.	<a href="https://healthtalk.org/">https://healthtalk.org/</a>
<b>HEALTH RESEARCH AUTHORITY (HRA)</b>	The HRA Framework for research provides the basis of legislative regulation for research in the UK.	<a href="https://www.hra.nhs.uk/planning-and-improving-research/policies-standards-legislation/uk-policy-framework-health-social-care-research/uk-policy-framework-health-and-social-care-research/">https://www.hra.nhs.uk/planning-and-improving-research/policies-standards-legislation/uk-policy-framework-health-social-care-research/uk-policy-framework-health-and-social-care-research/</a>



## CONTACT INFO



<https://www.imperial.ac.uk/medtechone/medtechone-streams/collaborative/>



[mt1-collaborative@imperial.ac.uk](mailto:mt1-collaborative@imperial.ac.uk)



**Find other useful Imperial research contacts at:**

<https://www.imperial.ac.uk/research-and-innovation/research-office/research-governance-and-integrity/about-us/staff-list/>