

Curriculum 2024 Guide for Special Interest Professional Module (SIPM): Clinical Research (CR)

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Contents

1.	The Clinical Research SIPM	4
2.	Design of the SIPM	4
3.	Capabilities in Practice (CiPs)	4
4.	GMC Generic Professional Capabilities (GMCs)	9
5.	Evidence required	10
6.	Career guidance	11
7.	Further resources	11



4

1. The Clinical Research SIPM

This SIPM is aimed at learners with an interest in clinical research. Clinical research skills are essential in obstetrics and gynaecology, and they are a requirement of the Core Curriculum. Learners who undertake this SIPM will develop the knowledge and skills beyond the 'core' expectation, and will be able to competently support clinical research as an active participant (Principal Investigator, Co-applicant/Collaborator, Recruiter) in a primary, secondary or tertiary care setting. The SIPM aims to increase the opportunities for clinicians in non-academic posts to develop a specialised understanding of research governance, and allow them to become directly involved in NIHR and industry portfolio trials. It is expected that the SIPM would foster research skills and encourage NHS-relevant, practice-changing, multi-centre collaborative research.

As a learner progresses through the SIPM, they will be exposed to and participate in a wide variety of research scenarios. Learners will also participate in educational events to further develop their training.

Throughout training, learners will need to reflect on whether a project has gone well, learn from positive and negative experiences, and use this to improve their own skills.

Before signing off on this SIPM, the Educational Supervisor will decide whether the learner is meeting expectations for completion of each Clinical Research Capability in Practice (CiP). More detail is provided in Section 5 of the <u>Special Interest Training Definitive Document</u>.

2. Design of the SIPM

The 2024 Clinical Research SIPM is made up of two Clinical Research CiPs. If undertaking the module full time, it is expected to take 18–24 months. However, this timeframe is indicative as training is entirely competency based.

This SIPM is not required for certificate of completion of training (CCT), but will develop the learner's professional skills in the field of clinical research.

Here is the GMC-approved Clinical Research SIPM:

3. Capabilities in Practice (CiPs)

Clinical Research CiP 1: The doctor will have an understanding of and be able to apply the principles of clinical research methodology.

Key skills	Descriptors
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5

Can develop a research idea and write a research protocol Can develop and review a study or trial protocol	 Critically appraises papers or research proposals involving a prospective clinical study. Evaluates published literature. Obtains, receives and incorporates advice from research into their practice. Pays attention to detail and accuracy. Is sensitive to ethical issues. Explains justification for study to all audiences. Is aware of potential risks and how to manage 	
	 these. Develops a database and data management strategy. Develops operating procedures. 	
Can present research	 Contributes to writing a grant proposal or a peer-reviewed paper. Prepares an oral or a poster presentation. Writes letters to journals. Organises and presents data. Critically appraises literature. Pays attention to detail and accuracy. Interprets and defines the clinical relevance of data. 	
Can use statistical techniques and carry out data analysis	 Familiar with general statistical and scientific skills. Pays attention to detail and accuracy. Interprets and defines the clinical relevance of data. 	
Can use epidemiological methods to carry out medical research	 Familiar with epidemiological methods. Can design, analyse and write reports using epidemiological data. Uses different sampling techniques. Pays attention to detail and accuracy. Interprets and defines the clinical relevance of data. 	
Evidence to inform decision – exampl	les of evidence (not mandatory requirements)	
 Attendance at an online or face-to-face journal club Presentation of a research paper at a journal club or departmental clinical meeting Participation in an oral presentation or poster submission at a regional, national or international forum Evidence of participation in critical evaluation of BJOG articles (e.g. responses to Continuing Professional Development (CPD) questions on BJOG articles in TOG Written critical appraisal of a clinic research protocol 		

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6

- Documentary evidence of a British Journal of Obstetrics and Gynaecology (BJOG) or The Obstetrician and Gynaecologist (TOG)-based research appraisal (e.g. publication in BJOG/correspondence section)
- Draft or published manuscript, • poster or presentation
- Attendance at appropriate course ٠
 - basic research methodology
 - medical statistics

Mandatory requirements

No mandatory evidence

Knowledge criteria

- Aware of hierarchy/strength of evidence
- Appreciates the need for high quality proposals •
- Knowledge of regulations governing research •
- Descriptive statistics
- Data distribution •
- Parametric and non-parametric tests •
- Generalised linear modelling •
- Survival data •
- Multivariate analysis •
- Simple random sampling, stratification •
- Sample sizes, practical issues in sample surveys
- Strengths, limitations and weaknesses of different study designs and sources of epidemiological data (e.g. prospective and retrospective studies)
- Measures of health and disease incidence (risk, rate, odds)
- Prevalence, measures of effect (e.g. relative and absolute risk)
- Understanding standardisation, causality in non-randomised studies

Clinical Research CiP 2: The doctor will be able to carry out clinical studies.	
Key skills	Descriptors
Can prepare research project submissions	 Completes appropriate documentation, including: Integrated Research Application System (IRAS) submission (incorporating ethics) Research and development (R&D) submission Home Office personal or project licence (e.g. clinical trial authorisation (CTA) application, data access application). Understands patient and public involvement (PPI) in research. Respects patients' rights. Awareness of cultural diversity.



	Communicates the rationale of the research and ethical	
	considerations.	
Can develop study documentation and maintain appropriate licences and approvals for research Can carry out research	 Develops a patient information leaflet, consent and case report form, and carries out data collection. Performs ethical research. Reports on adverse events, serious adverse events (SAEs) and SUAS report. Works with standard operating procedures (SOPs). Awareness of the requirements of clinical governance, especially probity. Adheres to appropriate standards and legislation. 	
ethically and with integrity	 Awareness of issues surrounding fraud and scientific misconduct. Awareness of complex issues in scientific research. Awareness of plagiarism and can use plagiarism software. Reports concerns about research conduct. Develops ethical research practice. 	
Can close a study	 Takes responsibility for end of study procedures. Applies ethical, R&D and CTA requirements for the end of a study. Archives consent, data and tissues. Completes reports and notifications. Ensures that data and samples are anonymised. Pays attention to detail. 	
	xamples of evidence (not mandatory requirements)	
 Evidence of personal involve competence at, recruitment portfolio research study rele specialty or subspecialty. Th personal listing on the deleg portfolio clinical trial AND ex personally recruiting reason appropriate numbers of part such a trial(s) Participation in the local adr a clinical trial or research stu delegation log/site file) Acknowledgement of approv research from the ethics cor Research & Development 	into arelevant clinical research challenges encountered during the Clinical Research SIPM (about 5,000 words).is will include a is will include a tation log of aResearch SIPM (about 5,000 words).Examples of potential themes to be covered could include: o actual/potential adverse events o ethical issues/challenges posed o potential modifications to trial design that could have been addressed differently o factors that militated against optimal recruitment of trial	



- Good clinical practice certification to cover the following objectives:
 - demonstrate an understanding of the importance of the interwoven laws, frameworks and guidelines which govern the set up and conduct of clinical research
 - demonstrate an understanding of the roles and responsibilities of different individuals and organisations in clinical research
 - understand the regulatory applications required before clinical research can be started in the UK
 - identify a range of essential documents and the purpose of maintaining a trial master file

 understand the process of receiving informed consent and the roles and responsibilities of those involved in this process

- demonstrate the ability to correctly and accurately complete case report forms and other relevant documentation and understand the process for resolving data queries
- demonstrate an awareness of the correct safety reporting requirements that keep patients safe
- know where to go for further advice and support and how to keep updated

No mandatory requirements

No mandatory evidence

Knowledge criteria

- Understands trial design:
 - o controls
 - o protocols
 - o blind and double-blind arrangements
 - cross-over trials
 - o meta-analysis

- potential clinical translation/benefits of study findings
- Attendance at PPI meeting
- Forms approved by Ethics Committee, including:
 - \circ study consent form
 - o patient information leaflet
 - o data collection form
- Attendance at appropriate course:
 - research methodology
 - local research network
 - Medical Research Council (MRC) online resources
 - o good clinical practice
 - local specialty group or clinical study group
- Use of appropriate plagiarism software
- Documents demonstrating appropriate closure of study
- Archiving of data



- Understands research project approval requirements:
 - o sponsorship
 - o **R&D**
 - o Clinical Trial Authority
 - Home Office
 - o Caldicott Guardian
 - National Institute for Health and Care (NIHC) portfolio adoption
- Ethical Committee regulations and requirements
- Good clinical practice
- Understands research infrastructure:
 - National Institute for Health and Care (NIHR) structure and function local, national, clinical study groups
 - Use of research networks and support
- Understands issues around misusing research
- Knows how to report concerns about research conduct
- Understands plagiarism
- Understands ethical, R&D, CTA requirements for the end of a study

4. GMC Generic Professional Capabilities (GMCs)

The key skills in the Clinical Research CiPs also map to a variety of generic professional capabilities (GPCs). When providing evidence of their progress in this SIPM, learners should make sure that it also displays progress/capability in the GMC GPCs, such as dealing with complexity, teamwork and leadership, and knowledge of patient safety issues.

Mapping to the GPCs

Domain 1: Professional values and behaviours

Domain 2: Professional skills

Domain 3: Professional knowledge

Domain 4: Capabilities in health promotion and illness prevention

Domain 5: Capabilities in leadership and team-working

Domain 6: Capabilities in patient safety and quality improvement

Domain 7: Capabilities in safeguarding vulnerable groups

Domain 8: Capabilities in education and training



Domain 9: Capabilities in research and scholarship

Learners can expect to be assessed on their wider skills as a medical professional, their skills in leadership and teamwork and those relating to knowledge and processes of clinical research. Evidence showing progress in these areas will result in the learner progressing through the SIPM.

To help learners and Educational Supervisors determine what acceptable progress looks like, there is a Statement of Expectations for each Clinical Research CiP.

	Statement of Expectations for the Clinical Research SIPM
Meeting	Learners meeting expectations are able to understand, review and critique
expectations	a research idea, study or trial protocol. They can develop a study or trial
for the Clinical	protocol, and employ epidemiological methods to carry out medical
Research CiP1	research. They have the ability to use statistical techniques to analyse
	study data. The learner can present a research idea or study within
	different settings, employing a range of presentational formats.
Meeting	Learners meeting expectations are able to understand the ethical
expectations	framework and good practice of clinical research within the NHS. They can
for the Clinical	apply for and receive approvals for research studies, and maintain the
Research CiP2	associated research documentation safely and securely. Learners can
	independently provide leadership or collaboration in clinical research
	studies of various types, enabling recruitment of patient participants into
	portfolio clinical studies. Learners are able to complete and conclude
	clinical studies, and recognise and manage clinical research events.

The CiP knowledge criteria show the processes/frameworks a learner should understand and the professional knowledge they must have if they want support clinical research as an active participant. This is more in-depth than the knowledge base expected for the MRCOG. The key skills and descriptors outline the expected learning outcomes for the SIPM. However, learners will not experience the entire range of possible scenarios during their training for this SIPM; therefore, after completing the module they should continue their learning and skill development through their independent practice in this field.

5. Evidence required

As learners progress through SIPM training, they are expected to collect evidence that demonstrates development and acquisition of the key skills and knowledge. This evidence will be reviewed by the SIPM Educational Supervisor when they are making their assessment for each CiP. Examples of types of evidence a learner may use to show progress in the SIPM are given below. **Please note that this list shows possible, not mandatory, types of evidence** (see Section 5 in the <u>Special Interest Training Definitive Document</u> for more detail).

•	Case-based discussions	Attendance at relevant conferences
		and courses
•	Reflective log of study conduct	Quality improvement activity
•	Local, deanery and national teaching	Observation of or participation in
		meetings
•	Delegation log	• RCOG Learning, BJOG or other
		eLearning
•	Recruitment log	Peer-reviewed journal publications
•	Case report forms	GPC certificate

If workplace-based assessments are listed, then at least one must be presented as evidence. The emphasis should be firmly on the **quality** of evidence, not the quantity.

6. Career guidance

Learners can undertake any of the three SIPMs. There is no 'protected' training time allocated to undertake SIPMs, and they are not required for CCT. The Clinical Research SIPM can be undertaken at any stage during the training programme. The most appropriate stage to consider undertaking this SIPM will be from ST3 onward, so that learners can focus on the clinical research skills in the Core Curriculum before embarking on the SIPM, where they will develop those skills and knowledge to a higher level. Learners aspiring to take on clinical research roles in their consultant career should undertake this SIPM.

For further careers advice, learners should have a discussion with their SIPM Director.

7. Further resources

The further resources listed below can be found on the <u>RCOG Curriculum 2024 webpages:</u>

- Essential Curriculum Guide
- <u>Special Interest Training Definitive Document</u>

Find out more at rcog.org.uk/curriculum2024

