

YHFS Specialised Foundation Programme Clinical Research Project Competencies

The following is guidance for your academic curriculum goals and should be discussed with your Educational and/or Academic Supervisor.

Although this is a Clinical Research Placement, trainees are encouraged to participate in Medical Education where possible. Please see the Medical Education Placement Guidance.

Evidence should be uploaded to your e-Portfolio, including a personal development plan, evidence of activities during the 4-month placement, and Education / Academic Supervisors report.

Trainee Name:	GMC Number:
Trust:	
Educational Supervisor:	
Academic Supervisor:	

Table 1: Essential

No	Competency	Evidence	Competent	Knowledge/ understanding	N/A
			(✓)	(✓)	(✓)
1	Identifying a research supervisor / key stakeholders / collaborator	Organises meetings with research supervisor / stakeholders / collaborators Emails / notes of meetings			
2	Identifying a research topic	Describe the different research methods available			
3	Structured / systematic review of literature	Written synthesis of literature which has been searched through a structured/systematic process and appraised.			
4	Defining a research question	Formulates a credible / realistic and answerable research question			
5	Observational and experimental research design / developing a research proposal	Develops a written piece or a presentation that articulates a good understanding of observational and experimental designs, how they are applied in answering a research question & mechanisms to ensure translation of the research into the clinical setting			
6	Critical appraisal of a paper / topic	Step by step / checklist and comments on paper's validity (internal and external)			

No	Competency	Evidence	Competent	Knowledge/ understanding	N/A
			(✓)	(✓)	(✓)
7	Carrying out a study / experiment	Description of systematic and scientific methods / approach used Reflective writing on the findings demonstrating strengths/weaknesses and implications of the study			
8	Qualitative data collection, statistical analysis, interpretation and presentation	Evidence of appropriate skills to analyse and interpret statistical data. Data is collected, analysed and presented			
9	Poster Design	Completed Poster			
10	Familiarisation of research ethics and how it is monitored	Describes the general ethical principles that underpin research Describes the process for ethical approval			
11	Knowledge of issues around misuse of research	Ability to recognise misuse of research and describe what should be done if a project proposal raises concerns			
12	Research and integrity (awareness of complex dilemmas in scientific research)	Knowledge of robust practice across the full research process i.e. the planning and conduct of research, the recording and reporting of results, and the dissemination, application and exploitation of findings			
13	Understanding PPIE (Patient and Public Involvement and Engagement)	Recognising the value of PPIE			

Table 2: Optional

No	Competency	Evidence	Competent	Knowledge/ understanding	N/A
			(✓)	(✓)	(✓)
14	Writing a grant application / funding process	Describes the different funding sources available Accurately estimates the study costs Completed funding application Funding approval / feedback from a funding source			
15	Writing research paper	Use of appropriate structure and writing style for an academic paper			
16	Writes and submits an application for ethical approval (local /national)	Completed application for ethical approval			
17	Information storage and retrieval	Familiarisation of systematic collection and cataloguing of data so that it can be easily located. Understand the principles of data management and data safety issues			
18	Patent and Intellectual property	Trade secrets Trade marks Copyrights Patents			
19	Writing Skills	Completed manuscript Acceptance letter from a journal Published paper in listed / unlisted Journal Other pieces of academic writing			
20	Laboratory safety / techniques	Performs laboratory techniques specific to their area of study Applies laboratory safety principles specific to their area of study Reflective report on lab techniques			
21	Clinical trials / legislation	EU Clinical Trial Regulation			

No	Competency	Evidence	Competent	Knowledge/ understanding	N/A
			(✓)	(✓)	(✓)
22	Home office and animal licences / animal husbandry / storage of human tissue	Animals (Scientific Procedures) Act 1986 The Human Tissue Act 2004			
23	NHS Structure and Regulations	NHS England / CCGs / Public Health England / Health and Wellbeing Boards			
24	Fraud / scientific misconduct	An awareness of fraud/scientific misconduct, impact and repercussions			

Table 4: Communication / Education

25	Presentation Skills / Poster presentation	Acceptance letter at a local / national / international meeting Poster / PowerPoint slides Published conference abstract / programme Certificate of attendance			
26	Electronic media / audio visual presentation skills	PowerPoint slides			
27	Communicate research to lay audience or research naïve audience	A presentation, policy brief, practice guidance, poster, social media feed, an article/blog/info-graph written for non-academic audience			
28	Teaching skills experience	Lesson Plan Aims, objectives, feedback Reflective logs on teaching sessions			
29	Effective networking and collaboration	Engages with multi-professional groups Understands their personal impact on others			

No	Competency	Evidence	Competent	Knowledge/ understanding	N/A
			(✓)	(✓)	(✓)
30	Ability to work co-operatively and creatively with colleagues	Understands how individuals and teams function and the most effective way to work with them Invites and encourages regular feedback from patients / service users / multidisciplinary team / senior colleagues / peers on personal and project performance and acts upon this Reflective writing			
31	Assertiveness Skills	360-degree appraisal / reflective writing			
32	Understanding of self / leadership styles	360-degree appraisal / reflective writing			