YHFS Specialised Foundation Programme
Clinical Research Project – Competencies

The following is guidance as to your academic curriculum goals and should be discussed with your Research Supervisor. You will also need to consider which PG Cert Modules you are doing in relation to your clinical placements to ensure that your employer can release you.

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

Trainee Name:	**GMC Number:**
Trust:	

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			

No	Competency	Evidence	Competent (✓)	Knowledge/ understanding (✓)	N/A (✓)
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)			
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			
22	**Home office and animal licences / animal husbandry / storage of human tissue**	Animals (Scientific Procedures) Act 1986 The Human Tissue Act 2004			

No	Competency	Evidence	Competent (✓)	Knowledge/ understanding (✓)	N/A (✓)
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			
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			