

CC20 Ethical research

To ensure that research is undertaken using relevant ethical guidelines		
Knowledge	Assessment Methods	GMP Domains
Outline the GMC guidance on good practice in research	ACAT, C	1
Outline the differences between audit and research	AA, C, Mi	1
Describe how clinical guidelines are produced	C	1
Demonstrate knowledge of research principles	C, Mi	1
Outline the principles of formulating a research question and designing a project	C, Mi	1
Comprehend principal qualitative, quantitative, bio-statistical and epidemiological research methods	C	1
Outline sources of research funding	C	1
Skills		
Develop critical appraisal skills and apply these when reading literature	C	1
Demonstrate the ability to write a scientific paper	C	1
Apply for appropriate ethical research approval	C	1
Demonstrate the use of literature databases	C	1
Demonstrate good verbal and written presentations skills	C, D	1
Understand the difference between population-based assessment and unit-based studies and be able to evaluate outcomes for epidemiological work	C	1

Behaviours		
Recognise the ethical responsibilities to conduct research with honesty and integrity, safeguarding the interests of the patient and obtaining ethical approval when appropriate	C, M	1
Follow guidelines on ethical conduct in research and consent for research	C	1
Show willingness to the promotion of involvement in research	C	1
Level Descriptor		
1	Obtains Good Clinical Practice (GCP) certification Defines ethical research and demonstrates awareness of GMC guidelines Differentiates audit and research Knows how to use databases	
2	Demonstrates critical appraisal skills	
3	Demonstrates knowledge of research funding sources Demonstrates good presentation and writing skills	
4	Provides leadership in research Promotes research activity Formulates and develops research pathways	

Emergency department context	
1	Conducts effective literature search to determine the audit gold standard
2	Completes a BestBET including the formulation of three-part question, search and review Demonstrates the ability to recruit a patient to a clinical trial
3	Completes a draft CTR Successfully completes a regional mock critical appraisal paper or goes on critical appraisal course Completes an evidence-based guideline in the ED**
4	Completes a successful CTR Successfully submits a research application Completes the CEM online research governance e-learning
Leadership	Specialty trainees should demonstrate competence in all elements of domains, with some evidence in setting direction
Demonstrating personal qualities	Completes draft CTR on time and submits for review by trainers ***
Working with others	Supports audit or research by junior trainees or nurses with advice, direction and providing constructive review
Managing the service	Uses evidence to create guidelines or pathways for patient care * Supports research from ED or other departments into daily practice – contributing to patient recruitment and data collection
Improving services	Introduces the results of high quality research into patient pathways in the ED – including business case development for new equipment, drugs or services or redesigning pathways *
Setting direction	Contributes to strategy for research and audit in the department for a defined period e.g. 5 year plan