Postgraduate Medical Training

Research and Scholarshipsyllabus

OST Curriculum domain

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| **Level 1** |
| **Learning Outcome** | **Descriptors** |
| ***An ophthalmologist achieving this level will, in addition:*** |
| **Adopt an evidence-based approach to clinical practice.** | * Understand GMC guidance on good practice in research.
* Understand the difference between audit and research.
* Understand some of the following areas: research ethics, research design, literature / database searching, evidence appraisal skills, statistical approaches, funding for research.
* Undertake one audit, which can take the form of leading a local departmental audit or demonstrating involvement in a national audit.
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| **Critically appraise existing published research.** | * Understand principles of qualitative, quantitative, bio-statistical and epidemiological research methods.
* Critically appraise one published clinical trial and present to clinical supervisor.
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| **Distil research and deliver oral presentations.**  | * At least one presentation to local postgraduate teaching / Journal Club.
* At least one presentation at regional annual trainees’ research symposium.
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| Level 2 |
| **Learning Outcome** | **Descriptors** |
| ***An ophthalmologist achieving this level will, in addition:*** |
| **Implement an evidence-based approach to shared decision making and enhancing patient outcomes.** | * Demonstrate secure understanding of principle qualitative, quantitative, bio-statistical and epidemiological research methods.
* Identify a research question relevant to clinical practice and undertake a literature review to identify what is known on the topic.
* Publish at least one peer-reviewed review (systematic or literature) on subject of trainee’s choice (in close collaboration with clinical supervisor).
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| **Demonstrate competencies for commencing clinical research.** | * Collect evidence for portfolio that demonstrates ability to apply knowledge encompassing research ethics, research design, literature/database searching, evidence appraisal skills, statistical approaches, funding for research.
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| **Distil research, deliver poster presentations and improve oral presenting.** | * Critically appraise one published clinical trial and present to local postgraduate teaching / Journal Club.
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| Level 3 |
| **Learning Outcome** | **Descriptors** |
| ***An ophthalmologist achieving this level will, in addition:*** |
| **Implement service improvement by revision and development of guidelines, treatments and practical procedures using current clinical research and contemporary evidence.** | * Acquire additional research skills relevant to own clinical or research interests.
* Develop and commence a research study to address research question identified at Level 2.
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| **Lead research sessions and critically appraise oral presentations.** | * Chair and organise local postgraduate teaching at least once.
* Give formative feedback to presenters at above session.
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| Level 4 |
| **Learning Outcome** | **Descriptors** |
| ***An ophthalmologist achieving this level will, in addition:*** |
| **Understand the principles of research methods, research governance, application of ethics to research and the translation of research into practice.** | * Apply advanced knowledge of principles of qualitative, quantitative, bio-statistical and epidemiological research methods.
* Apply involvement in research governance and research ethics applications, e.g. Health Research Authority and Research Ethics Committee (REC) for a clinical research project.
* Apply adherence to GMC and other guidance on ethical conduct in research and consent for research.
* Apply service improvement by revision/development of guidelines based on: contemporary clinical research/evidence; own research.
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| **Promote innovation in ophthalmology.** | * Have undertaken evidence review to inform own research.
* Continue own research to completion – producing peer-reviewed papers as first or lead author is one way to demonstrate competence.
* Demonstrate collaboration and participation in research led by others.
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