

Suggested areas/subjects to achieve imaging competencies for Neurosensory STP trainees undertaking the Clinical Assessment and Investigation (CA&I) rotation module

Learning outcome	Competencies	Knowledge and understanding	Suggestions
Identify key anatomical landmarks on images obtained using ionising and non-ionising imaging media in the investigation of patients with ... conditions resulting in referral to audiology, neurophysiology or ophthalmic and vision science services, and describe the limitations and impact of results on patient diagnosis, treatment and care.	View and identify key anatomical landmarks and abnormal pathology related to the relevant body systems on images obtained using ionising and/or non-ionising imaging media.	<ul style="list-style-type: none"> Relevant health and safety policies for the imaging department for the safe use of ionising and non-ionising imaging equipment. 	Radiology Review local rules for ionising and non-ionising safety.
		<ul style="list-style-type: none"> Key anatomical landmarks appropriate to the investigation. Normal and abnormal images. How different imaging tests contribute to the holistic approach in the diagnosis and management of relevant common conditions. 	Radiology In relation to your specialism: Observe and review CT head scans; Observe and review MRI head scans; Discuss findings and implications.
		<ul style="list-style-type: none"> Choice of test equipment and the safety, calibration and quality assurance checks required for diagnostic imaging equipment services. The selection of a particular imaging modality in preference to another. Key research and development areas that are likely to translate to improvements in imaging technique. The range of equipment within the scope of learning, its use, application and limitations. The strengths and weaknesses of each imaging modality within relevant care pathways. 	Medical Physics Observe routine QA for CT or MRI equipment; Observe patient dose measurement for radiological equipment; Review results of patient dose surveys; Discuss developments in imaging technology.
	Review and assist in making measurements on images on Picture Archiving Systems (PACS).	<ul style="list-style-type: none"> PACS applications and measurement systems. Confidentiality and information governance issues related to PACS. How imaging measurements are undertaken in a range of imaging modalities and how these contribute to patient management. 	Medical Physics Observe use of PACS system to store and retrieve images; Discuss confidentiality relating to image storage and transfer; Observe quantitative measurements on stored image data.
In a supportive role assist in performing safety checks, calibration and quality assurance of imaging... equipment using local, national or international standards.	Critically evaluate the role of calibration and quality assurance in: imaging departments; In ensuring accuracy of test outcomes and identifying any potential errors or risks when applied in clinical practice.	<ul style="list-style-type: none"> Methods of risk assessment relevant to work activity. Hazards and risks associated with the working environment and the procedures to be performed. The implication of defective equipment and devices on patient care. 	Radiology Review risk assessment for an imaging room; Observe/assist safe working practices in the use of ionising radiation; Review/assist staff radiation dose measurements.