

Module Details	
Module Title	Medical Imaging Option
Module Code	RAD6007-C
Academic Year	2022/3
Credits	30
School	School of Allied Health Professions and Midwifery
FHEQ Level	FHEQ Level 6

Contact Hours	
Type	Hours
Lectures	4
Online Lecture (Synchronous)	8
Seminars	5
Online Seminar (Synchronous)	6
Clinical Placement	175.5
Interactive Learning Objects	7.5
Independent Study	85.5
Practical Classes or Workshops	7.5

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Academic Year

Module Aims
To provide the student with the opportunity to consolidate and extend their knowledge, understanding and practical skills in computed tomography of the head and one other area of diagnostic imaging chosen from a list of options.

Outline Syllabus

In relation to computed tomography (CT): equipment, clinical indications for emergency referrals, techniques, protocols and safety consideration to enable the student to be able to perform standard non-contrast head examination as required by the Health Care Professions Council.

Communication of complex radiographic procedures to include reflection upon own practice and giving and receiving feedback.

Increased knowledge and develop practical skills in one medical modality/procedures previously studied in year 2 of the course. The student will choose from a defined list (for example; CT, MRI, ultrasound and breast imaging).

They will examine the evidence base for:

The application of physical principles of image production and technological and operational design features of equipment to optimise production and visualisation of images. Patient care, before, during and after the examination. Techniques, protocols and patient preparation for the safe and effective conduct of a limited range of routine examinations suitable for practitioner level practice. Normal, variant and pathological anatomical image appearances. Evaluate and implement risk/benefit based patient care pathways (clinical indications and examination justification) and effective multidisciplinary health care provision.

Learning Outcomes

Outcome Number	Description
01	1.1 Appraise the design features of equipment and how they contribute to the optimisation of diagnostic imaging performance 1.2 Critically evaluate and justify the techniques / protocols for a specified range of imaging procedures / examinations
02	2.1 Perform a standard computed tomography (CT) examination of the head. 2.2 Formulate and implement a strategy for the preparation and care of the patient, and where appropriate their relatives / carers, with cognisance to the physically and psychological domain. 2.3 Operate imaging and associated equipment competently and with due regard to technique-specific safety considerations. 2.4 Evaluate images produced and interpret findings, recognising normal anatomy and some common pathologies.
03	3.1 Take responsibility for managing your own learning. 3.2 Critically evaluate the effectiveness of your communication with service users. 3.3 Appraise your ability to work and communicate effectively as part of a multidisciplinary team. 3.4 Use critical thinking and reflective processes, appraise your learning needs, identify and act upon identified areas of improvement.

Learning, Teaching and Assessment Strategy

The module will include on campus and online lectures and seminars. Practical workshops and learning objects such as videos from clinical specialists and reflection upon communication skills will prepare students for clinical placement in CT.

Clinical placement in CT will enable the student to perform a standard computed tomography examination of the head, as required by the Health Care Professions Council, Standards of Proficiency. Lectures and tutorials will be provided by staff with an interest in your chosen area for further study.

Students will through negotiation with the module leader identify an area of imaging practice of interest to them from a defined list. Students will consolidate and extend their knowledge and practical skills in the selected area by organising and undertaking a clinical placement in the chosen practice area. Students will take complete responsibility for their clinical learning by organising a suitable two week placement in a department offering their chosen specialism (normally in the UK at a SCoR approved training department). A named placement mentor will be required to supervise the student, give formative feedback and conduct a final interview to assess and give feedback on the students' performance and professional conduct during the placement.

Small group seminars at the University and online will support independent study.

Assessments: Completion of a CT head assessment in clinical practice will form part of the students clinical portfolio in semester 1 or 2 and will assess learning outcome 2. Development of an ePortfolio to include evidence of reflection upon personal communication skills, review of an examination/patient observed during individual placement, critical review of examination protocols, working practices and clinical decision making. This will assess learning outcomes O1 and o3

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Mode of Assessment

Type	Method	Description	Weighting
Summative	Coursework - Portfolio/e-portfolio	Semester 2 paper based clinical portfolio demonstrating students competence in clinical practice	30%
Summative	Coursework - Portfolio/e-portfolio	To include experience and critical review of examinations during individual clinical placement	70%

Reading List

To access the reading list for this module, please visit <https://bradford.rl.talis.com/index.html>

Please note:

This module descriptor has been published in advance of the academic year to which it applies. Every effort has been made to ensure that the information is accurate at the time of publication, but minor changes may occur given the interval between publishing and commencement of teaching. Upon commencement of the module, students will receive a handbook with further detail about the module and any changes will be discussed and/or communicated at this point.