

Module Details	
Module Title	Clinical Computed Tomography
Module Code	RAD7010-C
Academic Year	2022/3
Credits	30
School	School of Allied Health Professions and Midwifery
FHEQ Level	FHEQ Level 7

Contact Hours	
Type	Hours
Interactive Learning Objects	12
Lectures	24
Online Lecture (Asynchronous)	6
Online Lecture (Synchronous)	18
Online Tutorials (Synchronous)	4
Project Supervision	3
Tutorials	4
Work based learning	120
Directed Study	30
Independent Study	79

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Non-Standard Academic Year

Module Aims
(1) To enable the student to critically evaluate the Computed Tomography (CT) protocols used in clinical practice with respect to the evidence base to inform service delivery and practice policy. (2) To develop the student's ability to evaluate CT images within a structured and monitored experiential learning environment.

Outline Syllabus

The student will perform a wide range of CT examinations in clinical practice thereby gaining a practical knowledge and understanding of:

- (1) How CT techniques and sequence parameters can be optimised to produce diagnostic images and examination.
- (2) Patient care and management.
- (3) Clinical applications of CT.
- (4) How the appearances of pathology and normal variants on CT images relate to the use of CT in clinical practice.
- (5) Relevant Guidelines.
- (6) Clinical governance, service evaluation and audit.
- (7) Reflective practice.
- (8) Critical appraisal of published literature.

Learning Outcomes

Outcome Number	Description
LO 1	For a range of examinations critically analyse and evaluate the use and application of Computed Tomography (CT) imaging protocols and resultant image appearances in clinical practice.
LO 2	Make informed clinical judgements in the selection of imaging protocols and technical parameters and employ them appropriately, considering patient care and management.
LO 3	Identify and evaluate continuous professional development opportunities in CT clinical practice to influence service delivery and lead service improvement initiatives, in line with local, national and international guidelines.
LO 4	Demonstrate ethical, inclusive practice and effective professional communication skills.
LO 5	Demonstrate reflective practice, self-direction and evaluate complex issues in an ethical, systemic and creative manner.
LO 6	Critically appraise relevant literature and research.

Learning, Teaching and Assessment Strategy

This module is designed to offer the student the opportunity to reflect, critique, evaluate and develop their own clinical practice and that of others within their department. The lectures will guide and support the student to plan their work-based learning and identify areas of their practice to explore further and evaluate.

Students will be permitted a choice of topics within their portfolio which allow them to identify the evidence base. In addition, students will be able to critique clinical practice and protocols and evaluate service. In the clinical workplace students will undertake clinical CT examinations of a wide range of anatomical regions/systems for a variety of clinical indications, gaining experience of advanced practice where applicable. Technology will be used to support directed study & reflection on practice whilst students are away from the university; opportunities for formative feedback (peer, tutor, and self) will be facilitated.

Achievement of the learning outcomes will be demonstrated through the completion of a formal examination on case based clinical applications and presentations (learning outcome 1); completion of a work-based portfolio (learning outcomes 1, 3, 4, 5, 6) and a clinical assessment to demonstrate clinical competence mentor (learning outcome 2).

Mode of Assessment			
Type	Method	Description	Weighting
Summative	Computerised examination	75 minutes Objective Structure Image Viewing Examination (OSIVE). PASS AT 40%, MUST PASS	40%
Summative	Coursework - Portfolio/e-portfolio	Work-based portfolio: practice and service evaluation. (PASS AT 40%, MUST PASS)	60%
Summative	Clinical Assessment	Mentor sign-off (PASS/FAIL, MUST PASS)	0%
Formative	Computerised examination	Peer and tutor discussions on OSIV exam style questions.	N/A
Formative	Self and Peer Assessment	Tutor facilitated peer feedback on portfolio assessment	N/A
Formative	Clinical Assessment	Mentor feedback on clinical performance	N/A

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.

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