

Module Details	
Module Title:	Clinical Computed Tomography
Module Code:	RAD7010-C
Academic Year:	2019-20
Credit Rating:	30
School:	School of Allied Health Professions and Midwifery
Subject Area:	Radiography
FHEQ Level:	FHEQ Level 7 (Masters)
Pre-requisites:	
Co-requisites:	

Contact Hours	
Type	Hours
Lectures	10
Work based learning	164
Tutorials	6
Directed Study	120

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Semester 2 (Feb - May)

Module Aims
<ol style="list-style-type: none"> 1. To provide the student with a structured and monitored experiential learning opportunity. 2. To enable the student to critically evaluate Computed Tomographic (CT) protocols used in clinical practice with respect to the evidence base in order to inform service delivery and practice policy. 3. To develop the student's ability to evaluate CT images.

Outline Syllabus
The student will perform a wide range of CT examinations gaining a practical knowledge and understanding of: how CT techniques and exposure parameters can be optimized to produce

diagnostic images; patient care and management; clinical applications of CT; how the appearances of pathology and normal variants on CT images relate to the use of CT in clinical practice; radiation dose and safety issues; presentation skills for oral presentations; reflective practice and the effective use of audit in medical imaging.

Learning Outcomes

1	For a range of examinations critically analyse and evaluate the use and application of CT imaging protocols in clinical practice.
2	Make informed clinical judgements in the selection of imaging protocols and technical parameters and employ them appropriately.
3	Describe and differentiate normal from abnormal anatomical and pathological appearance on CT images.
4	Critically appraise CT protocols used within the clinical environment with respect to the published evidence in order to inform and improve service delivery and practice policy.
5	Evaluate complex issues in a systematic and creative manner.
6	Demonstrate reflective practice, self direction and originality in practical problem solving.

Learning, Teaching and Assessment Strategy

The learning in the module will utilise the knowledge and understanding gained in the CT module and apply it to the student's own clinical practice. 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 in their clinical placement.

Tutorials will be used to facilitate group discussion and case scenarios to support students and the expectations of this work based learning module. Aspects of CT clinical practice will be explored through lectures by practice experts. The VLE will be used to support directed study by facilitating sharing and collaboration in problem solving whilst students are away from the University.

Whilst on placement the student will complete a record of clinical experience and undertake work-based projects/case studies as part of the learning process. These work-based tasks will include a critical appraisal of clinical practice (learning outcomes 1,2,4,5) and reflection on their practice (learning outcomes 2,4,5,6), supported by the use of published literature. The students will also make a presentation to their peers on a patient case that they have been involved with (learning outcomes 1,2,3,4,5,6).

Mode of Assessment

Type	Method	Description	Length	Weighting
Summative	Presentation	PowerPoint presentation	25 minutes	20%
Summative	Coursework	Portfolio		80%

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.