

| Module Details |   |
|----------------|---|
| Module Title   | Clinical Computed Tomography                      |
| Module Code    | RAD7010-C   |
| Academic Year  | 2021/2  |
| Credits        | 30  |
| School         | School of Allied Health Professions and Midwifery |
| FHEQ Level     | FHEQ Level 7                                      |

| Contact Hours                 |       |
|-------------------------------|-------|
| Type                          | Hours |
| Lectures                      | 9     |
| Online Lecture (Synchronous)  | 8     |
| Online Lecture (Asynchronous) | 2     |
| Interactive Learning Objects  | 4.5   |
| Work based learning           | 165   |
| Seminars                      | 1     |
| Tutorials                     | 1.5   |
| Project Supervision           | 3     |
| Directed Study                | 20    |
| Independent Study             | 86    |

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

| Module Aims  |
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| 1. To provide the student with a structured and monitored experiential learning opportunity.<br>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.<br>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

| Outcome Number | Description   |
|----------------|---|
| 01             | For a range of examinations critically analyse and evaluate the use and application of CT imaging protocols in clinical practice.   |
| 02             | Make informed clinical judgements in the selection of imaging protocols and technical parameters and employ them appropriately.   |
| 03             | Describe and differentiate normal from abnormal anatomical and pathological appearance on CT images.  |
| 04             | 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. |
| 05             | Evaluate complex issues in a systematic and creative manner.  |
| 06             | Demonstrate reflective practice, self direction and originality in practical problem solving.   |

## Learning, Teaching and Assessment Strategy

This module will utilise the knowledge and understanding gained in the CT module in applying it to the student`s own clinical practice enabling them to reflect, critique, evaluate and develop both the student`s own practice and that within the department. The lectures will guide and support the student to plan their workbased learning and identify areas of their practice to explore further and evaluate. 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.

online Tutorials will be used to facilitate group discussion to support students and the expectations of this work based learning module. Students will be supported to explore aspects of CT clinical practice by practice experts. The virtual learning environment (VLE) will be used to support directed study by facilitating sharing and collaboration in problem solving whilst students are away from the University.

Achievement of the learning outcomes will be demonstrated through the completion of a portfolio, to include critical appraisal of clinical practice and reflection on practice supported by the use of published literature (LO 1,2,3,4,5,6), and a log of clinical experience as part of the learning process. The students will also make a presentation to their peers on a patient case that they have been involved with (learning outcomes 4,5,6).

## Mode of Assessment

| Type      | Method                             | Description                        | Weighting |
|-----------|------------------------------------|------------------------------------|-----------|
| Summative | Presentation                       | Power Point presentation (15 Mins) | 20%       |
| Summative | Coursework - Portfolio/e-portfolio | 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.*

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