

Module Details	
Module Title	Clinical Magnetic Resonance Imaging
Module Code	RAD7011-C
Academic Year	2022/3
Credits	30
School	School of Allied Health Professions and Midwifery
FHEQ Level	FHEQ Level 7

Contact Hours	
Type	Hours
Lectures	20
Interactive Learning Objects	4
Work based learning	145
Online Tutorials (Synchronous)	6
Project Supervision	3
Directed Study	30
Independent Study	92

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

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

Outline Syllabus

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

- (1) How MRI techniques and sequence parameters can be optimised to produce diagnostic images and examination.
- (2) Patient care and management.
- (3) Clinical applications of MRI and MRI Safety.
- (4) How the appearances of pathology and normal variants on MR images relate to the use of MRI 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
01	For a range of examinations critically analyse and evaluate the use and application of MR imaging protocols in clinical practice.
02	Make informed clinical judgements in the selection of imaging protocols and technical parameters and employ them appropriately considering patient care and management.
03	Identify and evaluate continuous professional development opportunities in MRI clinical practice to influence service delivery and lead service improvement initiatives in line with local, national, and international guidelines.
04	Demonstrate ethical, inclusive practice and professional effective communication skills.
05	Demonstrate reflective practice, self-direction & evaluate complex issues in an ethical, systematic, and creative manner..
06	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 within the department. Technology will be used to support directed study and reflection on practice whilst students are away from the university; opportunities for formative feedback (peer, tutor, and self) will be facilitated.

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 MRI examinations of a wide range of anatomical regions/systems for a variety of clinical indications, gaining experience of advanced practice where applicable.

Achievement of the learning outcomes will be demonstrated through the completion of:

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

Mode of Assessment			
Type	Method	Description	Weighting
Summative	Computerised examination	75 minutes Objective Structured Image Viewing examination (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	Classroom test	Peer and tutor discussions on exam style questions	N/A
Formative	Self and Peer Assessment	Tutor facilitated peer discussion on collating elements of portfolio	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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