

Clinical Magnetic Resonance Imaging

Module Code:	RAD7011-C
Academic Year:	2018-19
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
Tutorials	6
Laboratory	3
Directed Study	116.75
Other (DO NOT USE)	164
Examinations DO NOT USE	0.25

Availability Periods

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

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 gaining a practical knowledge and understanding of: how MRI techniques and sequence parameters can be optimised to produce diagnostic images and examination; patient care and management; clinical applications of MRI; how the appearances of pathology and normal variants on MR images relate to the use of MRI in clinical practice; safety in clinical practice; presentation skills for oral presentations; reflective practice and the effective use of audit in medical imaging; critical appraisal of published literature.

Module Learning Outcomes

On successful completion of this module, students will be able to...

- 1 For a range of examinations critically analyse and evaluate the use and application of MR imaging protocols in clinical practice;
- 2 Make informed clinical judgements in the selection of imaging protocols and technical parameters and employ them appropriately considering patient care and management.
- 3 Describe and differentiate normal from abnormal anatomical and pathological appearance on MR images.
- 4 Critically appraise MR protocols used within the clinical environment with respect to the published evidence in order to inform and improve service delivery and practice policy;
- 5 Demonstrate ethical, inclusive practice and professional effective communication skills.
- 6 Demonstrate reflective practice, self-direction & evaluate complex issues & originality in practical problem solving.

Learning, Teaching and Assessment Strategy

The learning in the module will utilise the knowledge & understanding gained in the MRI module & apply it to the student`s own clinical practice. Evidence-based content will be delivered by Faculty experts with support from the technical & clinical fields. Students will be encouraged to identify the evidence base & critique clinical practice & protocols. 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. Use of PACS and case scenarios will be used to facilitate peer learning and discussion and enhance the student`s confidence in debating and justifying imaging techniques. Technology will be used to support directed study & reflection on practice whilst students are away from the university. The teaching & assessment strategy will develop the student's level 7 research skills in preparation for the final stages of the MSc programme, and provide opportunities for formative feedback (peer, tutor and self).

Achievement of the learning outcomes will be demonstrated through the completion of a portfolio, to include work-based projects/case studies (LO 1,3,4,5) and reflection on practice

(LO 2,4,5,6), 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 (LO 1,2,3,4,5,6).

Mode of Assessment

Type	Method	Description	Length	Weighting	Final Assess'
Summative	Presentation	PowerPoint presentation		20%	No
Summative	Coursework	portfolio	0 hours	80%	Yes

Legacy Code (if applicable)

HRPP702T

Reading List

To view Reading List, please go to [rebus:list](#).