

Module Details	
Module Title	Medical Image Reporting - Musculoskeletal Radiographs
Module Code	RAD7016-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
Tutorials	16
Online Lecture (Synchronous)	12
Online Lecture (Asynchronous)	10
Online Tutorials (Synchronous)	12
Work based learning	120
Directed Study	110

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

Module Aims
To provide the student with a structured and monitored experiential learning opportunity to enable the student to develop the theoretical and clinical knowledge base required to interpret musculoskeletal radiographs and construct clear and concise medical image reports.

Outline Syllabus

The syllabus will include: the signs and symptoms of musculoskeletal disease and trauma and develop clinical assessment competencies to underpin their clinical decision making; undertake a wide range of reports of musculoskeletal radiographs developing expertise and autonomy in an advanced level role; actionable report writing and communication with the wider clinical team; gain knowledge of image optimisation for diagnosis and appreciate the relevance of alternative imaging modalities and diagnostic tests; explore their role and responsibility in maintaining and improving evidence based image acquisition techniques and quality; understand their responsibility as a professional role model and support development of the wider clinical team within the specialty; analyse the contribution of image reporting pathways to patient care and management and reflect on ethical, legislative and professional guidance in the context of potential scope of practice, service quality and safety; reflect on personal skills, knowledge and practice development, completing an audit of practice to demonstrate clinical application of learning.

Learning Outcomes

Outcome Number	Description
1	Critically analyse patient presentation, clinical history and radiographic images and reflect on their diagnostic utility.
2	Critically reflect on the relationship between the radiographic technique and the influence that the image report can have on patient management and clinical pathways.
3	Apply their skills to construct clear, concise and actionable musculoskeletal radiographic reports.
4	Effectively communicate imaging outcomes and relevant advice with stakeholders, including patients, carers and referrers.
5	Recognise the limitations of own skills and knowledge, identifying when to seek advice and support from peers and the multiprofessional team.
6	Demonstrate effective use of technology in their role.
7	Undertake peer review and audit to recognize the learning needs of self and others, identifying and providing continuous professional development opportunities.
8	Evaluate complex issues in an ethical, systematic and creative manner.
9	Evaluate opportunities for self and team to influence servicedelivery and lead service improvement initiatives in responseto population health needs and policy drivers.

Learning, Teaching and Assessment Strategy

A combination of online and on-campus teaching and learning approaches will be used to enhance understanding and analysis of the roles of practitioners undertaking radiographic reporting. Particular emphasis is placed on the medicolegal framework and the transferrable analysis, decision-making and communication skills involved in image interpretation. Learning will develop the theoretical knowledge base underpinning the identification and communication of imaging appearances of pathology and disease processes. Limitations of the imaging techniques and complementary technologies will be considered. On-campus PACS activity and case scenarios will be used to facilitate group discussion and enhance student confidence in verbalising image appearances. Directed study will enable students to identify and meet personal learning objectives to support the development of the skills necessary to produce independent actionable reports.

In addition, there will be opportunities to share learning with others through group activity and peer discussion in the academic, virtual and clinical environments supporting learning of wider team. Technology will be used to support the students learning and facilitate sharing and collaboration in problem solving.

Achievement of the learning outcomes will be demonstrated through a collection of posters (assessment 1) allowing demonstration, through service evaluation and pictorial reviews, of their underpinning knowledge base and critical thinking (learning outcomes 6,7,8); their clinical competence in reporting (assessment 2) is assured through workplace supervised practice (learning outcomes 1,2,3,4,5,6) and a formal examination (assessment 3: learning outcomes 1,2,3,5).

Mode of Assessment			
Type	Method	Description	Weighting
Summative	Presentation	5 posters (300-500 words each, up to 2500 words equivalent overall) - PASS AT 40%, MUST PASS	50%
Summative	Clinical Assessment	Clinical Audit (Min 500 cases) - PASS/FAIL, MUST PASS	0%
Summative	Computerised examination	90 minutes Image Reporting Examination - PASS AT 90%, MUST PASS. Supplementary/resit: As summative plus pass/fail viva	50%
Formative	Presentation	10 minutes poster presentation with tutor and peer feedback	N/A
Formative	Classroom test	Ongoing online quizzes and campus based mock examinations with group feedback.	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.