

Module Details	
Module Title:	Chest and Abdominal Imaging
Module Code:	RAD4007-C
Academic Year:	2019-20
Credit Rating:	30
School:	School of Allied Health Professions and Midwifery
Subject Area:	Radiography
FHEQ Level:	FHEQ Level 4
Pre-requisites:	
Co-requisites:	

Contact Hours	
Type	Hours
Lectures	38
Demonstration	3
Clinical Placement	200
Tutorials	3
Directed Study	56

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Academic Year (Sept - May)

Module Aims
Students will study the body`s cellular structure, and the anatomy, physiology, common pathology and imaging techniques of the chest and abdomen.

Outline Syllabus
Biological Science: Fundamentals of molecular and cell biology. Macroscopic, microscopic and radiographic anatomy, physiology and pathology of the chest and abdominal organs. Radiographic technique for a comprehensive range of routine radiographic examinations of the

chest and abdomen, with consideration of radiation, safety, patient centred care, and appropriate alternative imaging methods, to include Computed Tomography, Magnetic Resonance Imaging and Medical Ultrasound . Evaluation of the evidence base around choice of imaging method, technique and protocols. Patient care, informed consent and equality of service provision for a diverse population. Working as part of a health care team.

Learning Outcomes

1	1.1 Describe fundamental concepts of cell biology 1.2 Describe the basic physical principles associated with ultrasound, MRI and CT and the risks and benefits associated with imaging of the chest and abdomen 1.3 Describe radiographic technique, normal anatomy, physiology and common pathologies of the chest and abdomen.
2	2.1 Gain informed consent for and perform appropriate routine radiographic examinations of the chest and abdominal contents safely and effectively 2.2 Provide appropriate patient care and understand the need to ensure equality of service provision for a diverse population 2.3 Evaluate radiographic images of the chest and abdomen 2.4 Discuss the applications of alternative radiographic imaging and when appropriate for the chest and abdomen.
3	3.1 Identify and evaluate literature guiding evidence based safe practice 3.2 Communicate effectively with service users, carers, and health care staff

Learning, Teaching and Assessment Strategy

Students will achieve module learning outcomes by following an integrated approach to learning, undertaken through academic study and placement learning (indicated below by `Other` hours of study).

Lectures: introduce students to research informed concepts and principles of general radiographic examinations of the chest and abdomen as first line procedures which are subsequently followed up by other imaging modalities. Students will use the evidence base to review the clinical applications of these imaging modalities and their role in chest and abdominal imaging and patient care. Tutorials sessions will support students' application of knowledge in identifying normal and abnormal anatomy and critically appraising radiographic technique.

Other: in clinical practice under supervision of trained clinical staff students will develop skills and apply theory to achieve the subject specific outcomes.

Assessment of the achievement of learning outcomes 1.1 ,1.2, 1.3, 2.3, 2.4 will be undertaken utilising a computer delivered objective structured clinical examination (OSCE). This exam allows an assessment of the full range of knowledge based on medical images and procedures that students will encounter in practice. Student`s clinical learning is directed by their Professional Development e-Portfolio, which assess learning outcomes 2.1, 2.2, 2.3, 3.1 & 3.2.

Mode of Assessment

Type	Method	Description	Length	Weighting
Summative	Computer-based assessment	Objective structured clinical examination	2 hours	80%

Summative	Clinical Assessment	Portfolio	0 hours	20%
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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.