

Module Details	
Module Title	Chest and Abdominal Imaging
Module Code	RAD4007-C
Academic Year	2021/2
Credits	30
School	School of Allied Health Professions and Midwifery
FHEQ Level	FHEQ Level 4

Contact Hours	
Type	Hours
Lectures	22.5
Online Lecture (Synchronous)	3
Online Lecture (Asynchronous)	3
Practical Classes or Workshops	13.5
Interactive Learning Objects	12
Independent Study	189
Seminars	4.5
Clinical Placement	52.5
Clinical Placement	Assessment of the achievement of learning outcomes 1.1, 1.2, 1.3, 2.1, and 2.2 will be undertaken utilising a computer delivered examination. This exam allows an assessment of the full range of knowledge based on medical images and procedures that students will encounter in practice.

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

## 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

Outcome Number	Description
01	1.1 Describe fundamental concepts of cell biology 1.2. Describe normal anatomy, physiology and common pathologies of the chest and abdomen 1.3. Describe and evaluate the radiographic technique and appropriate patient care for routine examinations of the chest and abdomen
02	2.1 Evaluate radiographic images of the chest and abdomen 2.2 Discuss the applications of alternative radiographic imaging and when appropriate for the chest and abdomen including associated risks and benefits.

## Learning, Teaching and Assessment Strategy

Students will achieve the module learning outcomes by following an integrated approach to learning which is undertaken through both academic study and simulated learning. Students will engage with a series of online learning resources and canvas quizzes as well as a set of structured activities (reading, online discussions etc.) that 'scaffold' the learning and provide formative feedback on progress.

Students will also engage in an on-campus practical to translate the conceptual material into simulated clinical setting.

Students will achieve module learning outcomes by following an integrated approach to learning, undertaken through academic study and placement learning.

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.

Practical sessions, seminars and learning objects will support students' application of knowledge in identifying normal and abnormal anatomy and critically appraising radiographic technique.

Clinical practice: 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, 2.1, and 2.2 will be undertaken utilising a computer delivered examination. This exam allows an assessment of the full range of knowledge based on medical images and procedures that students will encounter in practice.

### Mode of Assessment

Type	Method	Description	Weighting
Summative	Examination - Closed Book	computer based examination (2Hrs)	100%

### 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.*