UNIVERSITY of BRADFORD

Module Descriptor

Module Details	
Module Title	Interventional Radiography and Fluoroscopy
Module Code	RAD5504-B
Academic Year	2024/5
Credits	20
School	School of Allied Health Professions and Midwifery
FHEQ Level	FHEQ Level 5

Contact Hours	
Type	Hours
Directed Study	3
Independent Study	112
Seminars	6
Lectures	15
Clinical Placement	46
Placement	18 (of which 9 are virtual simulated placement activities)

Availability	
Occurrence	Location / Period
BDA	University of Bradford / Semester 2

Module Aims
The module will enable students to demonstrate appropriate fluoroscopic and interventional imaging techniques whilst maintaining the safety of the patient, environment and the multiprofessional team.

Outline Syllabus

Vascular anatomy and physiology.
Vascular and non-vascular symptomatic indications of pathology to be imaged or treated under angiographic or fluoroscopic control.
Fluoroscopic and angiographic equipment and technology.
Radiation protection in the fluoroscopic environments including operating theatres and multi-professional working.
Pre- examination preparation and requirement for, and interpretation of, pre-examination test results.
Sterile environments and sterile techniques including infection control and control of hazardous substances.
Consumable equipment: catheters, lines, tubes, wires ? types, uses and image appearances.
Anaesthesia, sedation, medication and contrast agent use.
Monitoring of patients during invasive examinations.
Identifying procedural complications.
Radiographers role in emergency action, crash trolley preparation and basic life support.

Learning Outcomes

Outcome Number	Description
01	Interpret patient monitoring data and provide appropriate care prior to, during and after fluoroscopic procedures including signs of complications and emergency events.
02	Understand and employ sterile techniques during fluoroscopic procedures, reducing hazard and dealing with contamination including actions related to waste and spillage.
03	Identify normal vascular anatomical appearances, pathophysiological processes, and common pathologies on fluoroscopic images.
04	Demonstrate the imaging techniques for diagnostic fluoroscopic and interventional procedures including radiation protection of patient and multi-professional team and preparation and use of appropriate drugs and contrast agents.

Learning, Teaching and Assessment Strategy

Keynote lectures will introduce key concepts. Face to face learning activities will include group discussions and seminars, virtual and practice simulations and scenario activities using campus C-arm, X□ray and CT facilities supported by a simulation portfolio. This will facilitate students to apply their knowledge and gain practical skills.
Clinical placement will enable students to assist and perform fluoroscopic examinations in a variety of multidisciplinary settings including the operating theatre and participate in maintaining clean and sterile environments thereby embedding their knowledge and skills in contemporary practice.
Asynchronous directed learning activities will support the development of independent learning skills through reflection and self-assessment of understanding of the learning materials. The reading list and VLE materials will support further exploration of the module syllabus to provide learning extension for students.

A computer based examination will assess module learning outcomes (1,2,3,4) and the students? knowledge and evaluation of safely undertaking fluoroscopic and interventional procedures. The exam will include a range of question styles to reduce bias in assessment design.

Mode of Assessment			
Type	Method	Description	Weighting
Summative	Computerised examination	Varied style exam questions	100%
Formative	Computerised examination	Example questions structured as a mock exam. (30mins)	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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