



Module Specification

Intermediate Imaging Theory

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Part 1: Information

Module title: Intermediate Imaging Theory

Module code: UZYYDS-30-2

Level: Level 5

For implementation from: 2023-24

UWE credit rating: 30

ECTS credit rating: 15

Faculty: Faculty of Health & Applied Sciences

Department: HAS School of Health and Social Wellbeing

Partner institutions: None

Field: Allied Health Professions

Module type: Module

Pre-requisites: None

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: This module covers the application of diagnostic radiography equipment to produce images of a wide range of anatomical systems for a range of complex diagnostic examinations. The addition of the underpinning theory of contrast enhanced procedures with a range of contrast media is important for the preparation of its use in practice and an understanding of the safety procedures and patient care required.

Features: Not applicable

Educational aims: As specified in Overview.

Outline syllabus: Typically, this module will cover:

Anatomy, disease and clinical applications

Imaging modalities and equipment used in the demonstration of anatomy,
Physiology and common pathologies within the context of patient care pathways.

Specialist Imaging areas

Emergency department

Mammography

Interventional procedures

Operating theatre and mobile radiography

Patient types

Multicultural and diversity management of people attending diagnostic imaging
including Bariatric, elderly, paediatric and those with additional learning needs.

Pharmacology

Contrast media and drug reactions

Pharmaco-dynamics and Pharmaco-kinetics

Radiobiology

Effects of radiation on cells

Risk versus benefit of imaging modalities

Health and safety issues

Radiation protection

Legal and ethical frameworks

Part 3: Teaching and learning methods

Teaching and learning methods: The addition of the underpinning theory of contrast enhanced procedures with a range of contrast media is important for the preparation of its use in practice and an understanding of the safety procedures and patient care required.

Module Learning outcomes: On successful completion of this module students will achieve the following learning outcomes.

MO1 Demonstrate an analytical understanding and application of the theoretical principles underpinning diagnostic imaging of the human body systems

MO2 Critically evaluate and compare the utilisation of different radiographic techniques including both unenhanced and contrast enhanced examinations

MO3 Demonstrate understanding of the health & safety requirements for diagnostic imaging practice, including relevant pharmacology of contrast agents and drugs use

MO4 Discuss the role of diagnostic radiography in the management and delivery of patient care

MO5 Demonstrate understanding of imaging policies and procedures which impact on patient pathways related to a range of clinical conditions

Hours to be allocated: 300

Contact hours:

Independent study/self-guided study = 228 hours

Face-to-face learning = 72 hours

Total = 300

Reading list: The reading list for this module can be accessed at [readinglists.uwe.ac.uk](https://rl.talis.com/3/uwe/lists/8AB13578-40BC-25CF-3B1C-C0934429CEE0.html?login=1) via the following link <https://rl.talis.com/3/uwe/lists/8AB13578-40BC-25CF-3B1C-C0934429CEE0.html?login=1>

Part 4: Assessment

Assessment strategy: Assessment Task 1: 1.5 hour Objective Structured Clinical Examination (OSCE)

Rationale: The examination will allow the student to be assessed on and demonstrate a depth and breadth of knowledge and understanding of pharmacology, radiobiology and health and safety procedures associated with diagnostic radiography under controlled conditions.

Assessment Task 2: 1500 word written assignment on a patient pathway

Rationale: A written assignment based on a patient pathway will enable the demonstration of an awareness of the role of diagnostic radiography in the management and delivery of patient care together with a critical comparison of the utilisation of different radiographic techniques.

Formative Assessment

There will be simulated scenarios to allow practice for the pharmacology and safety related questions. There will be mock exam questions available to allow for practice of exam technique.

Assessment tasks:

Practical Skills Assessment (First Sit)

Description: 1.5 hour OSCE

Weighting: 50 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3

Written Assignment (First Sit)

Description: 1500 word written assignment on a patient pathway

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO2, MO4, MO5

Practical Skills Assessment (Resit)

Description: 1.5 hour OSCE

Weighting: 50 %

Final assessment: Yes

Group work: No

Learning outcomes tested: MO1, MO2, MO3

Written Assignment (Resit)

Description: 1500 word written assignment on a patient pathway

Weighting: 50 %

Final assessment: No

Group work: No

Learning outcomes tested: MO2, MO4, MO5

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Diagnostic Radiography {Apprenticeship-UWE} [Glenside] BSc (Hons) 2022-23