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MODULE DESCRIPTOR

Module Title

The Patient Pathway

Reference	HS3124	Version	1
Created	February 2018	SCQF Level	SCQF 9
Approved	July 2013	SCQF Points	30
Amended	August 2017	ECTS Points	15

Aims of Module

The aim of this module is to enable the student to develop knowledge and understanding of specialist imaging modalities in the diagnostic and interventional radiological profile of acute and chronic diseases of the head and neck, musculoskeletal system, cardiorespiratory and vascular systems, genito-urinary systems and the gastrointestinal tract and accessory organs.

Learning Outcomes for Module

On completion of this module, students are expected to be able to:

- 1 Analyse pathologies of the head and neck, musculoskeletal system, cardiorespiratory and vascular systems, genito-urinary systems and the gastrointestinal tract and accessory organs.
- 2 Analyse the relevant diagnostic and treatment applications of CT, MRI, ultrasound, radionuclide imaging and interventional radiological procedures.
- 3 Evaluate the outcomes of specialist imaging modalities to a range of pathologies of the head and neck, musculoskeletal system, cardiorespiratory and vascular systems, genito-urinary systems and the gastrointestinal tract and accessory organs.
- 4 Evaluate the radiographic appearances of a range of specialist modality images of the head and neck, musculoskeletal system, cardiorespiratory and vascular systems, genito-urinary systems and the gastrointestinal tract and accessory organs.
- 5 Discuss advances and future trends in the application of specialist imaging modalities and how they may influence the diagnosis and/or treatment of pathologies of the head and neck, musculoskeletal system, cardiorespiratory and vascular systems, genito-urinary systems and the gastrointestinal tract and accessory organs.

Indicative Module Content

Role of conventional radiography as first-line imaging. Advanced physical principles of computed tomography, magnetic resonance imaging, ultrasound, radionuclide imaging. Advanced diagnostic and interventional applications of computed tomography, magnetic resonance imaging, ultrasound radionuclide imaging interventional imaging. Radiographic appearances of specialist imaging modalities of the head and neck, musculoskeletal system, cardiorespiratory and vascular systems, genito-urinary systems and the gastrointestinal tract and accessory organs. Radiographic pathologies, investigations and treatment pathways of the head and neck, musculoskeletal system, cardiorespiratory and vascular systems, genito-urinary systems and the gastrointestinal tract and accessory organs. Research and development in specialist imaging modalities. Evidence based practice including - SIGN, NICE, RCR guidelines.

Module Delivery

Lectures, tutorials and scenario-based workshops.

Indicative Student Workload

	Full Time	Part Time
Contact Hours	65	N/A
Non-Contact Hours	235	N/A
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	300	N/A
<i>Actual Placement hours for professional, statutory or regulatory body</i>		

ASSESSMENT PLAN

If a major/minor model is used and box is ticked, % weightings below are indicative only.

Component 1

Type:	Practical Exam	Weighting:	70%	Outcomes Assessed:	2, 3, 5
Description:	Scenario based coursework presentation				

Component 2

Type:	Practical Exam	Weighting:	30%	Outcomes Assessed:	1, 4
Description:	Computer based objective structured clinical examination (OSCE)				

MODULE PERFORMANCE DESCRIPTOR**Explanatory Text**

C1: Major component C2: Minor component

Module Grade	Minimum Requirements to achieve Module Grade:
A	Grade configuration C1/C2 - AA, AB
B	Grade configuration C1/C2 - AC, AD, BA, BB, BC, CA
C	Grade configuration C1/C2 - BD, CB, CC, CD, DA, DB
D	Grade configuration C1/C2 - DC, DD
E	Grade configuration C1/C2 - AE, BE, CE, DE, EE
F	Fails to achieve the minimum requirements for an E and/or fails to meet the module attendance requirements
NS	Non-submission of work by published deadline or non-attendance for examination

Module Requirements

Prerequisites for Module	Successful completion of all Stage Two modules of Master of Diagnostic Radiography will normally be required.
Corequisites for module	None.
Precluded Modules	None.

INDICATIVE BIBLIOGRAPHY

- 1 RALSTON, S.H. et al., 2022. *Davidson's principles and practice of medicine*. 24th ed. London: Elsevier.
- 2 JACKSON, S.A. & THOMAS, R.M., 2004. *Cross-sectional imaging made easy*. Edinburgh: Churchill Livingstone.
- 3 SANDERS, R.C. & HALL-TERRACCIANO, B., 2015. *Clinical sonography: a practical guide*. 5th ed. Philadelphia: Lippincott Williams & Wilkins..
- 4 SHARP, P.F., GEMMELL, H.G. & MURRAY, A.D., 2008. *Practical nuclear medicine*. 3rd ed. London: Springer.
- 5 WESTBROOK, C., KAUT-ROTH, C. & TALBOT, J., 2018 *MRI in practice*. 5th ed. London: Wiley-Blackwell.
- 6 Journal articles and professional publications.