

MODULE DESCRIPTOR

Module Title

Patient Pathways 1

Reference	HS3073	Version	3
Created	July 2017	SCQF Level	SCQF 9
Approved	November 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 musculoskeletal, neurological, cardiorespiratory, integumentary, lymphatic and immune systems.

Learning Outcomes for Module

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

- 1 Analyse pathologies of the musculoskeletal, neurological, cardiorespiratory, integumentary, lymphatic and immune systems.
- 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 musculoskeletal, neurological, cardiorespiratory, integumentary, lymphatic and immune pathologies.
- 4 Evaluate the radiographic appearances of a range of specialist modality images of the musculoskeletal, neurological, cardiorespiratory, integumentary, lymphatic and immune systems.
- 5 Discuss advances and future trends in the application of specialist imaging modalities and how they may influence the diagnosis and/or treatment of musculoskeletal, neurological, cardiorespiratory, integumentary, lymphatic and immune pathologies.

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 musculoskeletal, neurological, cardiorespiratory, integumentary, lymphatic and immune systems. Radiographic pathologies, investigations and treatment pathways of the musculoskeletal, neurological, cardiorespiratory, integumentary, lymphatic and immune systems. 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: performance assessed with a grading descriptor C2: equally weighted questions; marked in accordance with agreed outline answers Overall grade determined as follows:

Module Grade	Minimum Requirements to achieve Module Grade:
A	Grade configuration C1/C2 - AA or AB
B	Grade configuration C1/C2 - AC or BA or BB or BC or CA or AD
C	Grade configuration C1/C2 - BD or CB or CC or CD or DA or DB
D	Grade configuration C1/C2 - DC or DD
E	Grade configuration C1/C2 - AE or BE or CE or DE or EE or EA or EB or EC or ED
F	Grade configuration C1/C2 - AF or BF or CF or DF or EF or FF or FA or FB or FC or FD or FE
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 BSc (Hons) Diagnostic Radiography will normally be required.
Corequisites for module	None.
Precluded Modules	None.

INDICATIVE BIBLIOGRAPHY

- 1 COLLEDGE, N.R., WALKER, B.R., & RALSTON, S.H., 2014. *Davidson's principles and practice of medicine*. 22nd ed. London: Churchill Livingstone Elsevier.
- 2 JACKSON, S.A. & THOMAS, R.M., 2004. *Cross-sectional imaging made easy*. Edinburgh: Churchill Livingstone.
- 3 KALENDER, W.A., 2011. *Computed tomography: fundamentals, system technology, image quality, applications*. 3rd ed. New Jersey: Wiley VCH.
- 4 SANDERS, R.C. & HALL-TERRACCIANO, B., 2015. *Clinical sonography: a practical guide*. 5th ed. Philadelphia: Lippincott Williams & Wilkins..
- 5 SHARP, P.F., GEMMELL, H.G. & MURRAY, A.D., 2008. *Practical nuclear medicine*. 3rd ed. London: Springer.
- 6 WESTBROOK, C., KAUT-ROTH, C. & TALBOT, C., 2011 *MRI in practice*. 4th ed. London: Wiley-Blackwell.
- 7 Journal articles and professional publications.