

MODULE DESCRIPTOR

Module Title

Radiographic Appearances of Musculo-skeletal Patho-physiology and Trauma

Reference	HSM132	Version	6
Created	October 2022	SCQF Level	SCQF 11
Approved	March 2013	SCQF Points	15
Amended	March 2023	ECTS Points	7.5

Aims of Module

The aim of the module is to enable the participant to develop the knowledge base, interpretive and evaluative skills required for recognition of patho-physiological appearances demonstrated on diagnostic images of the appendicular and axial musculo-skeletal systems.

Learning Outcomes for Module

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

- 1 Interpret and evaluate physiological, pathological and traumatic appearances demonstrated on diagnostic images of the appendicular and axial musculo-skeletal systems.
- 2 Critically appraise and communicate patho-physiological and trauma related findings in a holistic manner relative to the clinical presentation of the patient.
- 3 Critically assess the factors involved in pattern recognition, image interpretation and the reporting of clinical findings in the context of patho-physiological appearances.
- 4 Critically evaluate the significance of normal variant appearances that may be demonstrated on diagnostic images of the appendicular and axial musculo-skeletal systems.

Indicative Module Content

Clinical application of the principles of pattern recognition and image interpretation of diagnostic images of the appendicular and axial musculo-skeletal systems (adult and paediatric); Principles of reporting, specific to the appendicular and axial musculo-skeletal system; Radiological appearances of normal and pathological presentations of the appendicular and axial musculo-skeletal systems; Normal variants; Role of other imaging modalities in the diagnosis of appendicular and axial musculo-skeletal conditions; Radiation dose, protection and risk; Assessment and significance of clinical information in the context of the diagnostic pathway.

Module Delivery

Delivery will be based on directed study supported by tutorials, workshops and seminars delivered on-line.

Indicative Student Workload

	Full Time	Part Time
Contact Hours	N/A	60
Non-Contact Hours	N/A	90
Placement/Work-Based Learning Experience [Notional] Hours	N/A	N/A
TOTAL	N/A	150
<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:	Examination	Weighting:	100%	Outcomes Assessed:	1, 2, 3, 4
Description:	Computer based objective structured clinical examination (OSCE)				

MODULE PERFORMANCE DESCRIPTOR**Explanatory Text**

This module is assessed by one component: C1 100% weighting. Module pass mark = Grade D.

Module Grade	Minimum Requirements to achieve Module Grade:
A	An A in component 1.
B	A B in component 1.
C	A C in component 1.
D	A D in component 1.
E	An E in component 1.
F	An F in component 1.
NS	Non-submission of work by published deadline or non-attendance for examination

Module Requirements

Prerequisites for Module	Refer Regulation A2: Admission and Enrolment for admission requirements and/or course specific entry requirements.
Corequisites for module	None.
Precluded Modules	None.

INDICATIVE BIBLIOGRAPHY

- 1 DEPARTMENT OF HEALTH (DOH), 2017. i: Ionising radiation (medical exposure) regulations. Norwich. ii. DOH. / REGULATION AND QUALITY IMPROVEMENT AUTHORITY (RQIA), 2018. Ionising radiation (medical exposure) regulations (Northern Ireland). Belfast: RQIA.
- 2 HEALTH AND SAFETY EXECUTIVE (HSE), 2017. i: Ionising radiation regulations. London. ii: HSE. / HEALTH AND SAFETY EXECUTIVE NORTHERN IRELAND (HSENI), 2017. Ionising radiation regulations (Northern Ireland). Belfast: HSENI.
- 3 HOLMES, E.J. & MISRA, R.R., 2006. A-Z of emergency radiology. Cambridge: Churchill Livingstone.
- 4 McCONNELL, J., EYRES, R. & NIGHTINGALE, J., 2005. Interpreting trauma radiographs. Oxford: Blackwell Publishing Limited.
- 5 PEH, W |Editor., 2017. Pitfalls in Musculoskeletal Radiology. Cham: Springer International. (Ebook)
- 6 RABY, N., BERMAN, L., MORLEY, S. & De LACEY, G., 2014. *Accident & emergency radiology: a survival guide*, 3rd ed. London: Saunders Limited.
- 7 RAFIEE, H., 2019. *Chapman & Nakielny's aids to radiological differential diagnosis*, 7th ed. London: Elsevier.
- 8 SOCIETY AND COLLEGE OF RADIOGRAPHERS (SCoR), 2009. *Practice standards for the imaging of children and young people*. London: SCoR.