

Introduction to Image Interpretation

Module Code:	RAD5007-B
Academic Year:	2018-19
Credit Rating:	20
School:	School of Allied Health Professions and Midwifery
Subject Area:	Radiography
FHEQ Level:	FHEQ Level 5
Module Leader:	Mr Edward Cadogan

Additional Tutors:
Kayleigh Hackett

Pre-requisites:

Co-requisites:

Contact Hours

Type	Hours
Lectures	20
Seminar	10
Clinical Placement	158
Directed Study	12

Availability Periods

Occurrence	Location/Period
BDA	University of Bradford / Academic Year (Sept - May)

Module Aims

To allow students to use current research informed evidence to examine the underlying principles of image perception and pattern recognition and apply these principles to the specialist functions of diagnostic image interpretation and relate these to clinical commenting, radiographic and radiology reporting. To understand the patient safety requirements of accurate and timely clinical image reporting.

Outline Syllabus

Professional and legal rules and codes of professional conduct. The requirements of the Health and Care Professions Council in regard to standards of proficiency and conduct. Competence and negligence, continuing professional development and study skills. Visual perception; physiology of vision; image display; picture archive and communication systems; psychology of decision making; professional accountability and medico-legal aspects of radiographer reporting; report / comment writing - protocols and professional guidelines; communication principles and skills; methods for evaluation of report quality.

Module Learning Outcomes

On successful completion of this module, students will be able to...

- 1.1 Discuss how the physical and cognitive processes of vision and visual perception impact on pattern recognition
- 1.2 Demonstrate understanding of the use of image display workstations and how images are manipulated and as part of the image interpretation process.
- 1.3 Demonstrate understanding of the working practices of reporters of medical images and how they contribute to effective patient management
- 2.1 Analyse human factors theory and its implications for interprofessional practice alongside concepts of professionalism, professional conduct, application of codes of conduct to the clinical role & continuing professional development
- 2.2 Evaluate the role of the radiographer in the multi-professional team, particularly the legal & professional responsibilities of the reporting radiographer.
- 2.3 Appraise how current legislation affects medical imaging service provision.
- 2.4 Compose technically acceptable comments for a range of routine medical imaging examinations
- 3.1 Use developing technical knowledge to communicate with health care professionals in an effective dialogue.
- 3.2 Identify, interpret and present information appropriately and accurately.
- 3.3 Analyse problems in order to solve them through applying specialist knowledge and skills.

Learning, Teaching and Assessment Strategy

Students will achieve the module learning outcomes by utilising current legislation & professional body guidance, research, appraisal of evidence & following an integrated approach to learning which is undertaken through both academic study & placement learning. Lectures: Students will be introduced to underlying anatomy, physiology & cognitive processes of visual perception. Case studies will enable understanding of safe & accurate image interpretation processes. Practical: The Picture Archiving & Communication System suite will be utilised to introduce students to principles, application & manipulation of image displays. Tutorials: Case studies will allow students to evaluate how accountability, medico-legal issues, protocols & professional guidelines affect the role of health

professional involved in commenting & reporting & allow opportunities for formative feedback. Directed study: students will collate current research & clinical & professional practice info to inform their essay & clinical practice image interpretations. Other: Clinical learning will direct students towards ascertaining how these abstract skills are applied in practice allowing them to research & evaluate how theoretical principles & evidence-based practice function in clinical settings & the appropriateness of different inter-professional approaches as well as providing opportunities for formative feedback of progress from clinical practitioners.

The professional development e-portfolio will assess learning outcomes 1.3,2.1,3.1,3.2,3.3; coursework will test learning outcomes 1.1,1.2,2.2,2.3,2.4.

Mode of Assessment

Type	Method	Description	Length	Weighting	Final Assess'
Summative	Coursework	Critical evaluation of physiological, technical & legal issues involved in diagnostic imaging report writing, 1500 words	0-1500 words	60%	No
Summative	Coursework	ePortfolio 5 independent image interpretations, comparison to definitive, reflection on differences in style/content.		40%	Yes

Legacy Code (if applicable)

Reading List

To view Reading List, please go to [rebus:list](#).