University of Pretoria Yearbook 2023

Diagnostic radiography 300 (DIR 300)

Qualification	Undergraduate
Faculty	Faculty of Health Sciences
Module credits	20.00
NQF Level	07
Programmes	Bachelor of Radiography in Diagnostics [BRad in Diagnostics]
Prerequisites	DIR 200, RSC 200, CDR 200, RPH 200, RAN 280
Contact time	1 discussion class per week, 1 lecture per week, 1 seminar per week
Language of tuition	Module is presented in English
Department	Radiography
Period of presentation	Year

Module content

Needle placement: The preparation of patients for contrast media radiographic investigations, technical imaging procedures, and needle placements. Venous needle placement.
Cardiovascular system: Selective angiography. Intervention techniques (vascular and non-vascular). Venography. Seldinger technique, contrast media, medication, catheters, guide wires and accessories. Quality assurance and quality control. Patient care. Medico-legal aspects. Pattern recognition.
Mammography: Introduction to principles of soft tissue radiography. Communication and health promotion. Medico-legal aspects. Management of breast disease, patient care, radiation safety and technique factors. Processing requirements. Positioning principles and special procedures. Systematic evaluation of the images. Pattern recognition.
Hystero-salpingography: Booking procedures, patient-radiographer relationship, procedural considerations and evaluation criteria. Pattern recognition.
Bone densitometry: Principles, bone biology and remodelling, osteoporosis, core competencies for radiographers, physical principles of dual X-ray absorptiometry and other bone densitometry techniques.
Ultrasonography: General principles in obstetrics and gynaecology, abdomen and pelvis, musculo-skeletal system.
Computer Tomography: Protocols for different examinations. Patient care. Image interpretation.
Magnetic resonance imaging: Principles and protocols for the different examinations. Patient care. Myelography.
Contrast media administration: Contrast media used in 2-D and 3-D imaging procedures (including MRI), overview of chemical make-up and physical properties of contrast agents, patient risk factors, pre-medication strategies, indicators/symptoms of patient reactions, care and treatment of reactions to contrast agents.

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