



University of Pretoria Yearbook 2020

Nuclear medicine 701 (KDE 701)

Qualification	Postgraduate
Faculty	Faculty of Health Sciences
Module credits	25.00
Programmes	BRadHons Nuclear Medicine
Prerequisites	No prerequisites.
Contact time	1 discussion class per week, 2 seminars per week
Language of tuition	Module is presented in English
Department	Radiography
Period of presentation	Year

Module content

Module consists of two sections to integrate with theoretical knowledge gained in TKG 710 (Theory of nuclear medicine). Clinical practice to operationalise and integrate the fundamental theoretical components. Choice of examination, patient positioning, field of view, orientation, routine views, static and dynamic imaging, SPECT imaging, modified views, acquisition and processing of data, correct labelling of data, patient care. Quality control. Pattern recognition and interpretation of procedures. Problems and pitfalls. Hot laboratory rules, regulations, skills, calculations. Cold laboratory equipment and procedures. Application of radiation safety. Advanced imaging and processing techniques. Procedures involving the use of emerging technologies and radiopharmaceuticals. Paediatric nuclear medicine diagnostic imaging. Management and administration of therapeutic radiopharmaceuticals. Radiation safety aspects. Comprehensive quality assurance and unit management. Establishing nuclear medicine services. Advanced concepts, current quality management theory, accreditation, and audit documentation. Basic principles and practices necessary for effective supervision and leadership in a healthcare environment. Principles and practices in human resource management in healthcare settings.

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