Course Competency

NMT 2932 Nuclear Medicine Seminar

Course Description

The student will learn to incorporate all theory related to the production of a nuclear medicine image. The student will also learn about radiation protection, instrumentation, physics, pharmacology, and Quality Assurance/Quality Control.

Course Competency	Learning Outcomes
Competency 1: demonstrate an understanding of basic RADIATION PROTECTION	1. Critical thinking
 Listing and describing the need for patient and personnel protection. Discussing the need for area/facilities monitoring. Discussing the importance of proper handling of radioactive materials. 	
Competency 2: demonstrate knowledge of RADIONUCLIDES AND RADIOPHARMACEUTICALS	
 Discussing the physical properties of radioactive materials. iscussing the characteristics of Radiopharmaceutical. Listing the appropriate steps for preparation and administration of radiopharmaceuticals. 	
Competency 3: demonstrate knowledge of INSTRUMENTATION AND QUALITY CONTROL	
 Applying the various techniques used in instrumentation and quality control: Survey Meter. Dose Calibrator 	

 Scintillation Detector System. Gamma Camera PET Scanner. Gas and Aerosol Delivery Systems. Image Acquisition Data Processing 	
Competency 4: demonstrate knowledge of DIAGNOSTIC AND THERAPEUTIC PROCEDURES	
 Listing the steps in patient positioning escribing the factors affecting image quality Analyzing the various procedures for specific diagnostic and therapeutic procedures 	
Competency 5: demonstrate knowledge of PATIENT CARE AND EDUCATION	1. Ethical Issues
 Discussing the importance of ethical and legal aspects of patient care Describing various principles of interpersonal communication Describing various techniques of maintaining infection control escribing principles and methods of physical assistance and transfers of patients escribing and recognizing medical emergencies 	

Updated: FALL TERM 2013