RTS 5022 CLINICAL STUDIES 5

Leader: Ms. Liz Parkinson
Credit points: 3
Prerequisites: NMS5000, RTS5010
Co-requisites: NMS5020

Synopsis:
Clinical experience in nuclear medicine studies involving modification of general and advanced methods, techniques and other procedural variables. PET and hybrid imaging studies. Radionuclide therapy. Radiopharmacy and laboratory procedures. Paediatric studies. Quality assurance procedures in the clinical setting. Participation in complimentary imaging modalities in particular CT and sonography.

Objectives:
Through appropriate supervised clinical experience and rostering, students will extend the clinical knowledge, understanding and skills in nuclear medicine as addressed in Nuclear medicine and radiopharmacy 3, Physics and Instrumentation 2 and Professional Practice 2. Upon successful completion of this unit, students will be able to:

1. Demonstrate appropriate clinical professional skills and proficiencies in PET imaging, paediatric studies, cell labelling, non-imaging studies and cannulation;
2. Prepare radiopharmaceuticals for treatment purposes;
3. Implement and adapt imaging studies involving hybrid imaging systems;
4. Implement more complex imaging processing procedures, and demonstrate understanding of image archival systems;
5. Demonstrate an understanding of the multidisciplinary approach to patient management;
6. Manage a camera room in terms of patient sequencing, clinical staff and patient care;
7. Manage a hot laboratory / radiopharmacy procedures including ordering, receipt, storage, preparation, dispensing and waste management.
8. Demonstrate continued development of clinical professional skills and proficiencies in relation to general nuclear medicine practice, including SPECT and gated acquisitions, with experience of increasing complexity or difficulty of examination determined by either patient status, procedural technique, patient and professional communication, image processing, image evaluation, supplementary images or review, organisational or legal obligations.
9. Demonstrate effective communication skills with clinical staff and patients (and their carers), provide a safe working environment, demonstrate effective work practices, and conduct nuclear medicine studies in a professional and ethical manner.

Assessment:
Learning contract + Case reports related to examinations and patient interactions + Clinical skills assessment (imaging & radiopharmacy) + Clinical studies professional portfolio

Off-campus attendance requirements:
Placement for 14 continuous weeks in a clinical nuclear medicine centre (5 weeks academic credit, 9 weeks professional credit).