RTS5010 CLINICAL STUDIES 4

Leader: Ms Liz Parkinson
Credit points: 3
Prerequisites: Successful completion of all units in year 1 of the course
Co-requisites: NMS5000

Synopsis:

Students will develop clinical professional skills and proficiencies consistent with the requirements for more complex planar, SPECT and gated imaging studies, with emphasis on cardiovascular, oncology, CNS and endocrine imaging. Experience in performing studies on a range of patients including adult, paediatric, geriatric, those of a non-English speaking background and those with special needs. Students will commence the development of clinical professional skills and proficiencies consistent with the requirements of hybrid imaging systems, PET imaging, cell labelling, non-imaging procedures, radionuclide therapy and cannulation. Further experience in general nuclear medicine procedures, patient care, radiopharmacy and quality assurance procedures in the workplace.

Objectives:

Through means of appropriate rostering and clinical supervision, students will gain experience in the imaging and radiopharmacy practices outlined in Nuclear Medicine and Radiopharmacy 2, Physics and Instrumentation 2 and Professional Practice 2. Upon successful completion of this unit, students will be able to:

1. Implement and evaluate more complex imaging studies on adult patients with minimal supervision;
2. Conduct radiopharmacy practices with minimal supervision;
3. Modify and adapt SPECT and gated imaging acquisitions;
4. Communicate understanding of the role of PET and hybrid imaging;
5. Communicate understanding of radionuclide therapy procedures;
6. Demonstrate beginner level expertise in cannulation, cell labelling and non-imaging procedures;
7. Demonstrate an understanding of the multidisciplinary approach to the clinical management of paediatrics, geriatrics and non-English speaking patients and those with special needs;
8. Apply quality assurance principles in the clinical setting;
9. Apply the principles of body section nuclear medicine imaging;
10. Identify personal learning goals in respect to the development of professional expertise in more complex imaging studies and radiopharmacy practice;
11. Manage a camera room in terms of patient sequencing, clinical staff and patient care;
12. Appreciate the nature of the professional inter-relationship between all members of the nuclear medicine team for imaging and non-imaging procedures;
13. Evaluate more complex imaging studies in terms of the condition of the patient, the clinical question, radiopharmaceutical biodistribution, results obtained, additional views or requirements and image quality.
14. 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:

Five continuous weeks in a clinical nuclear medicine centre.