



Medical Radiation Sciences Radiation Therapy Clinical Practice 2

Information for Clinical Mentors

11th April – 29th April 2022 (Block CP2 A)

This group of 3rd year students forfeited 2 days of 1st year observation placement due to Covid (September 2020) as well as missing some placement in July 2021 (approx. 1 week), but all completed 3 weeks of Clinical Practice 1 placement in December 2021 despite Covid restrictions and have total of 3-4 weeks experience.

The months prior to this Clinical Practice 2A placement, the students have covered the following theory:

RT Studies 3:

- Skin, Brain, GI tract, Lung, & Pancreas sites. Non-malignant conditions and care of radiation injury. Continued planning development Brain, Oesophagus, Pancreas, Lung and Breast sites. SABR and SRS techniques theory. Practical sessions: SXR land marking, calculations, cut-out manufacture and set-up; cast making for different baselines, brain and oesophagus CT simulation, treatment charts and intro to planar image matching (Pelvis and Brain).

Following the completion of the 3-week Clinical Practice 2A placement the students will commence **CT & PET** and **RT Studies 4** theory courses and the material will include:

- **CT & PET:** image evaluation, procedural protocols principles of co-registration, image quality, artefacts post processing and QA. CT/sim protocols, basic procedures and QA, image manipulation for planning prep, image fusion and contrast.
- **RT Studies 4:** Head and Neck techniques, Blood Bourne disease sites, lymphomas, paediatric malignancies. Practical Sessions: electron data and dummy runs, Head and Neck sim and treatment image matching (Thorax and Head and Neck), QA program development, TBI & CSI setup. Planning includes: ICRU 62&71, electron breast boosts, step and shoot, IMRT H&N, bolus, TCP/NTCP evaluation.

Expectations of students for the CP2a clinical placement (Total 3 weeks):

- The main objective of the placement is to continue to participate in radiation therapy procedures which give the student an opportunity to apply what they have learnt.
- There is **(1) treatment competency, (1) simulation participation, (1) planning participation, (1) imaging participation** to be recorded.
- In the student's clinical workbook there are a number of formative reports which require the student to reflect on their week, prior to their mentor completing the assessment.
- Once the student has completed the reflection, the clinical summative report is to be completed by the **Clinical Supervisor in the clinical department** in collaboration with the mentors involved with that student during their placements.
- It is expected that students gain a satisfactory level of achievement (3's) for all attributes in Domain 3 and 4.2 (treatment) of the summative report. Requires improvement to progress (2's) is acceptable for all attributes in Domain 1, 2, and 4.2 (planning and Sim/CT). Satisfactory level of achievement for all attributes in Domain 5 and 6.
- There **is** the expectation that students will exhibit **safe practice** and **professional behaviour**.