ICRP Task Group 116 Imaging in Radiotherapy Project

The International Commission on Radiological Protection (ICRP) is inviting applications for mentees to join a project organised by Task Group 116 Radiological Protection Aspects of Imaging in Radiotherapy to investigate the feasibility of making measurements to allow comparisons of dose settings used for imaging during radiotherapy treatments.

The measurements will require access to Cone Beam CT imaging facilities on one or more linear accelerators, standard Perspex 32 cm (and 16 cm) diameter CT phantoms, and either 100 cm CT or 6 cc Farmer chambers (preferably both).

The tasks that the mentee would be asked to carry out in the successive phases (1-4) of the project are:

1) Take measurements at their own centres with the phantoms and both types of chamber, if they have them, according to a set protocol, and report results, which would then be assessed.

2) Ask other centre contacts to arrange to carry out similar measurements at their centres. Mentees to collate the results and report them after an agreed period.

3) Collect data on standard treatment protocols for several specified treatments at the same centres and analyse data.

4) Collect data for sets of individual patients for treatments for which protocols were modified for individuals, at some centres as required.