

THE DOSE IN KV-CT AND CBCT IMAGING



Course overview

This course provides an introduction to the measurement of the dose delivered by the X-ray imaging in order to concretely understand the issue of additional doses received by patients. Optimization protocols without degradation of image quality are proposed.

Who is the course for ?

- medical physicists and technicians working in radiotherapy and medical imaging,
- engineers, researchers, PhD in Medical Physics

Entry requirements

Practice an activity in a radiotherapy or radiology department

Competences covered

- Understand the specificities of the dose measurements for low energies
- Know how to measure or calculate a dose using the various tools available
- Implement a process of dose optimization in the frame of imaging protocols

Duration 2 days

Location DOSEO Platform, CEA Saclay

Groupe limited to 14 persons

Contact Amélie Roué Tel: 01 69 08 60 83 / amelie.roue@cea.fr

Course code 40B

Please contact us for more information on this course.



GE Scanner of DOSEO platform (credit: L. Godart/ CEA)

Course content

- The dose measurement for imaging
- image quality and dose levels
- Optimization of imaging protocols
- Dose calculation: from commercial software to Monte Carlo methods
- Practical situation with dose measurements



MEDICAL FACILITIES



PRACTICE FOR REAL LIFE SCENARIOS



PRACTICAL WORK

Why take this course ?

- ✓ Expertise of **CEA trainers (Metrology, Instrumentation, Information Department)**
- ✓ Practical work on linear accelerators and scanner
- ✓ Partnership with DOSEO

