# 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

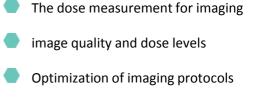
Contact Amélie Roué Tel: 01 69 08 60 83 / amelie.roue@cea.fr

**Course code 40B** Please contact us for more information on this course.



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

## Course content



- Dose calculation: from commercial software to Monte Carlo methods
- Practical situation with dose measurements



#### Why take this course?

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



With the support of :

WWW-INSTN.CEA.FR