UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Training in Diagnostic Imaging and Radiotherapy

2627-3-I0303D016-I0303D078M

Aims

NUCLEAR MEDICINE: the equipment: the Gamma Camera, Single Photon Emission Scintigraphy (SPECT), Positron Emission Tomography (PET). The preparation of radiopharmaceuticals.
Reception and positioning of the patient; the execution of scintigraphic examinations and PET and PET/CT investigations.
RADIOTHERAPY: the equipment: the Simulator, the CT, the linear accelerator. Patient reception; patient positioning and immobilization methods; the setting of the radiotherapy treatment; the execution of the treatment.
HEALTH PHYSICS: Quality controls on equipment, radiation protection of patients and operators.
RADIODIAGNOSTICS: diagnostic techniques of conventional planar, contrastographic and dedicated radiology, CT, Magnetic Resonance Imaging

Contents

By the end of the third year of training, the students will be able to conduct Nuclear Medicine diagnostic investigations and Radiotherapy treatments, knowing the functioning of equipment and the procedures for processing and archiving images.

The students will also be able to respect and apply the standards of radioprotection for patients and workers.

They will know conventional, dedicated, contrastographic radiological techniques and CT and MRI diagnostic techniques.

Detailed program

Prerequisites

Teaching form

Traineeship

Textbook and teaching resource

Semester

Second semester

Assessment method

Evaluation form completed by the tutor at the placement site to assess aspects such as interpersonal skills with the patient, technical management of the examination and use of equipment. Final oral examination conducted with the lecturers in charge of the practical traineeship in order to verify in a structured manner the achievement of the planned training objectives

Office hours

By appointment required by mail

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION