



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Tecniche e Traccianti in Scintigrafia

2627-3-I0303D036-I0303D085M

Aims

The student must learn which specific radiopharmaceuticals are used in conventional nuclear medicine investigations, scintigraphic image acquisition techniques (planar, static, dynamic, whole body, SPECT and SPECT/TC, gated), diagnostic methods and related acquisition protocols of scintigraphic investigations, general principles of image processing. The student must know the basics of the organisational/managerial aspects of a Nuclear Medicine department, the procedures of quality control of radiopharmaceuticals and equipment (gamma cameras), recognising the quality of a scintigraphic image.

Contents

- Organisational aspects of a nuclear medicine department;
- quality controls on equipment and radiopharmaceuticals;
- procedures for marking radiopharmaceuticals and autologous cells;
- radiopharmaceutical administration methods;
- acquisition techniques and methodological protocols of scintigraphic investigations.

Detailed program

Organisational aspects of an operational nuclear medicine unit, management of equipment and radiopharmaceuticals, quality control prior to the use of radiopharmaceuticals and equipment, structure and management of the hot chamber laboratory, analysis of the role of the TSRM in Nuclear Medicine, procedures for marking and disposal of radiopharmaceuticals, methods of administration of radiopharmaceuticals, acquisition protocols for scintigraphic investigations, acquisition techniques (planar, SPECT, SPECT/TC, gated), adequacy assessment of scintigraphic images, nuclear medicine image processing, image interpretation criteria (pathological

findings, physiological findings and artefacts).

Prerequisites

Teaching form

Lectures will be delivered in a mixed face-to-face mode:

? 8 hours of lectures in delivered mode

? 4 hours of lectures in interactive mode (small group work, presentations and discussion, Nuclear Medicine Unit visit)

Textbook and teaching resource

Teaching material provided by the Teacher, AIMN and EANM guidelines, book: Fondamenti di Medicina Nucleare - Tecniche e Applicazioni. of Volterrani - Erba- Mariani.

Semester

****First semester

Assessment method

Monza

Oral exam

Bergamo

5 multiple choice questions and oral exam

Office hours

By appointment required by mail

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION

