



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

SYLLABUS DEL CORSO

Diagnostica e Terapia in Medicina Nucleare

2425-3-I0303D036-I0303D061M

Aims

The student will have to learn the fundamental notions on the main clinical applications of scintigraphic and PET investigations in the study of cardiovascular, respiratory, gastrointestinal, urogenital, locomotor, central nervous system, endocrine system, inflammatory/infectious pathologies, pediatric and oncological pathologies. The student will also have to learn the basic notions relating to therapeutic treatments in nuclear medicine (radiometabolic, radioreceptor therapy, with radioligands and radioembolization treatments).

Contents

Clinical notes, diagnostic path and clinical indications of scintigraphic and PET investigations in the cardiovascular, respiratory, gastrointestinal, urogenital, locomotor, neurological, endocrinological, infectious diseases, pediatric and oncology fields. Clinical indications for therapies with radiopharmaceuticals (radiometabolic, radioreceptor therapy, with radioligands and radioembolization treatments)

Detailed program

Scintigraphic investigations for the study of ischemic heart disease, pathologies of the respiratory system (acute and chronic pulmonary embolism), of the gastrointestinal system (gastro-entero-pancreatic neuroendocrine tumors), of the urogenital system (study of obstructive hydronephrosis, nephro-vascular hypertension, of the transplanted kidney, of vesicoureteral reflux, pyelonephritis, malformative diseases of the kidney), of the musculoskeletal system (complicated joint prostheses, non-oncological skeletal pathology, primary and secondary oncological), of the central nervous system (study of movement disorders and neurodegenerative diseases), of the endocrine system (non-oncological and oncological thyroid pathology, pathologies of the parathyroid glands, pathology of the adrenal glands), study of inflammatory/infectious processes (infections of joint prostheses, diabetic

foot, endocarditis, vasculitis, spondylodiscitis, fever of unknown origin, systemic and cardiac sarcoidosis), pediatric pathologies (lymphomas, sarcomas, neuroblastoma), oncological pathologies (PET oncology diagnostics, search for the sentinel lymph node in breast cancer, melanoma and gynecological tumors) . General principles of the use of radiopharmaceuticals for therapeutic purposes; notes on radiometabolic therapy of thyroid tumors, neuroendocrine tumors, prostate cancer.

Prerequisites

Teaching form

10 frontal lessons of 2 hours carried out in attendance

Textbook and teaching resource

The Teachers will provide educational materials

Semester

First semester

Assessment method

5 multiple choice questions and oral exam

Office hours

By appointment required by mail

Sustainable Development Goals

GOOD HEALTH AND WELL-BEING | QUALITY EDUCATION
