



UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Applied Medical Technincal Sciences A

2122-4-H4101D020-H4101D081M

Aims

The pharmacological aspects of diagnostics medicinal products. Topics include fundamental of pharmacokinetics, pharmacodynamics and regulatory aspects related to their use in Diagnostic imaging. Introduction to the potential use of Molecular Neuroimaging to clinical practice and research

Contents

Pharmacology of Diagnostic Medicinal Products

Detailed program

Pharmacology of Diagnostic Medicinal Products

- Radiological contrast media: mechanism of action, pharmacokinetics and safety
- Radiopharmaceuticals: mechanism of action, kinetics of biodistribution and safety
- Regulatory affairs relative to their classification and reimbursement

Introduction to the potential use of Neuroimaging in clinical research

Prerequisites

Basic knowledge on chemistry, physics and physiology and pharmacology that will be presented during the course if necessary

Teaching form

Lessons will be provided in presence, subject to any ministerial changes following the COVID pandemic situation

Textbook and teaching resource

Slides presented during the course, paper and quiz for self evaluation

Semester

Second

Assessment method

Evaluation with oral self-assessment test performed during the course; (closed questions or multiple choice); to test the ongoing learning skills, students will receive a list of question on the various lessons presented; in addition, to verify the exact understanding of the methods presented to answer a specific scientific question, papers will be provided and discussed in class;

Evaluation criteria: theoretical knowledge, synthesis skills, ability in the application of diagnostic methods to a specific clinical or experimental contest.

Final test: mutichoice quiz

Office hours

By Agreement with the teacher (email or telephone)
