UNIVERSITÀ
DEGLI STUDI DI MILANO-BICOCCA

COURSE SYLLABUS

Mri Diagnostic Techniques in Neuroradiology

2021-2-I0303D035-I0303D056M

Aims

Students are expected to acquire basic knowledge on MR physics, MRI techniques, and main clinical indications of MR for neuro imaging.

Students are required to demonstrate confidence in the use of coils, application of acquisition protocols in the context of neuro MR imaging.

Contents

The course aims to provide students with basic knowledge of physical principles, techniques, diagnostic protocols and applied aspects of Magnetic Resonance Imaging in Neuroradiology.

Detailed program

MRI in neuroradiology: the main sequences and their application in neuroradiology; standard study of the brain, the stony rocks, the pituitary, the facial, the temporal lobe, orbit, cranial nerve; the MRI study of the spine and

spinal cord, the study of diseases of the white matter; special MRI techniques, therapeutic techniques in neuroradiology. Advanced MRI techniques : DWI, PWI, fMRI , Spectroscopy, complementarities and differences between CT and MRI. The MRA

Prerequisites

Diagnostic Imaging Techniques I

Teaching form

Exercises

Textbook and teaching resource

TECNICHE DI TOMOGRAFIA COMPUTERIZZATA E DI RISONANZA MAGNETICA - Cei Luigi

EDITRICE UNIVERSO

The teacher will provide other educational materials

Semester

Second semester

Assessment method

Oral examination

Office hours

By appointment required by mail