

# MRI Basic (5 days) Code: MRBASE5



## TRAINING CONTENT:

- MR Basic.
- MR Sequences.
- Image Quality Parameters.
- artifacts.
- fat Sat Techniques.
- Angiography.
- Diffusion
- Protocols



## TARGET GROUP:

- X-Ray Technologist.
- Biomedical Engineer.
- Student in Medical Imaging.
- Radiologist
- Resident in Radiology

## Training Material :

- Documents

## PREREQUISITE:

- General Knowledge in Radiology.

## DURATION:

- 5 days (15:00-20:00): Virtual



## Detailed Training Program

### Day 1: 15h00 - 20h00

- MR Basics.
- Spin Echo Sequence.
- Spin Echo Sequence Weighting.
- K space.
- Tissues Signal in MRI.
- MR System Component.

### Day 2: 15h00 - 20h00

- Sequence TSE, Restore, Haste.
- Sequence Inversion Recovery (IR, STIR, FLAIR).
- Sequence Gradient Echo.
- Fat Sat Techniques.
- Mapping (T1, T2, T2\*).
- Parallel Acquisition Techniques.
- Diffusion

### Day 3: 15h00 - 20h00

- Contrast.
- Spatial Resolution.
- Acquisition Time.
- Signal to Noise Ratio.
- MR Safety.

### Day 4: 15h00 - 20h00

- Metal Artifact.
- Aliasing Artifact.
- Movement Artifact.
- Chemical Shift Artifact.
- Truncation Artifact.
- Magnetic Susceptibility Artifact.
- Angiography Time Of Flight.
- Angiography Phase Contrast.
- Test Bolus / Bolus Tracking
- Angiography Dynamic.
- Angiography Native.

### Day 5: 15h00 - 20h00

- Protocol Brain.
- Protocol Breast.
- Protocol Abdomen.
- Perfusion T2\* (DSC).
- Evaluation Perfusion T2\*.



## TRAINING FEES:

- 300,00 USD for medical imaging students.
- 500,00 USD or residents and technicians in Radiology.
- 600,00 USD for Engineers and Medical Radiologists.