

The course will offer:

Lectures – Up to 100 hours

Personal attendance – Minimum 120 cases

Hands-on scanning – 36 h

Clinical reporting – Minimum 150 cases

Specific clinical application project

Log book to be kept of cases attended

Faculty

Lamia AIT ALI' MD, Ph.D.*
Giovanni Donato AQUARO MD °
Andrea BARISON MD, Ph.D. °
Valerio BARRA TR °
Michelangelo BERTASI TR °
Alberto CLEMENTE MD °
Daniele DE MARCHI TR °
Michele EMDIN MD, Ph.D. °
Pier Luigi FESTA MD °
Luna GARGANI MD, Ph.D.*
Alessia GIMELLI MD °
Chrysanthos GRIGORATOS MD °
Sara GUERRIERI Nurse °
Petra KEILBERG TR °
Antonella MELONI Ph.D. °
Danilo NEGLIA MD °
Cristina PETERSEN MD, Ph.D. °
Alessia PEPE MD, Ph.D. °
Vincenzo POSITANO MSc °
Giancarlo TODIERE MD °

° Fondazione Toscana G. Monasterio (FTGM)

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in collaboration with
Istituto di Fisiologia Clinica del CNR



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Fondazione Toscana
Gabriele Monasterio



Three-months training course in CMR

1/6/2016 - 9/9/2016

Magnetic Resonance Lab
Area della Ricerca CNR di Pisa
Via Moruzzi, 1

This program is intended for cardiologists and radiologists wishing to gain in-depth knowledge of and experience in the principles of cardiac MR, its practical implementation in a clinical environment, and reading and interpretation of CMR images. In our MR Lab more than 2500 patients are clinically scanned every year in the whole field of the cardiology. Training is propaedeutic to obtain level 2 CMR accreditation.

Objective

This program is intended for cardiologists and radiologists wishing to gain on basic cardiovascular magnetic resonance.

Setting

The CMR Unit in Pisa is an international referral centre, performing more than 2500 cardiovascular CMR studies per year covering a wide range of clinical issues.

The fee will cover:

- Tutor assistance
- Hands on CMR acquisitions and analysis
- Case reading
- Stress CMR and multimodality lectures
- Teaching material
- Lunch ticket
- Social dinner
- Attendance certificate

Cost

€ 4500 euros + 22% VAT for each physician, € 4500 + 22% VAT for each accompanying technical radiologist or nurse Maximum 2 participants. CME credits will be provided if required with an extra-fee of € 1000 + 22% VAT for each participant.

Location

Magnetic Resonance Lab
Area della Ricerca CNR di Pisa
Via Moruzzi, 1 Pisa, Italy



Topics to be covered include:

Antonella Meloni, PhD – 7 h

Basic principles of MRI / MRI hardware / Image quality (SNR, CNR and resolution) / Image artefacts / Heart, liver and pancreatic T2* MR assessments

Vincenzo Positano, MsC - 7 h

Introduction to CMR image analysis and DICOM standard / Heart function assessment by CMR / 3D visualization / Flow analysis
Myocardial perfusion analysis / LGE image analysis / CMR relaxometry

Sara Guerrieri, Nurse – 2 h

MRI Safety / MRI patient's preparation (basal and stress)

Daniele De Marchi, TR - 7 h

Sequence design / K-space strategies and rapid imaging / Quality in CMR

Petra Keilberg, TR - 7 h

Cardiac anatomy, imaging planes and appearances / Quality in MR / CMR Acquisition protocol: Thalassemia, Stress, Cardiomyopathy

Valerio Barra, TR - 1h

CMR Acquisition protocol: myocarditis

Michelangelo Bertasi, TR - 1 h

CMR Acquisition protocol: ARVC

Giovanni Donato Aquaro, MD – 9 h

Physic for dummies / Ventricular volumes, mass and function / Myocardial perfusion imaging / Contrast medium and LGE quantification / ARVC / Stress MRI using dobutamine / Cardiac tumor and pericardial masses

Alessia Pepe, MD, PhD – 9 h

Stress MRI using dipiridamole and adenosine / Iron overload cardiomyopathy / Liver and pancreatic iron quantification by MR T1, T2, T2* map / Mdc / CMR in LV non compaction / CMR in reumatologic disease / CMR in oncology



Andrea Barison, MD, PhD – 5 h

T1 mapping / Laminopathies and muscular Dystrophies / ardiac Amyloidosis / Thoracic Aorta / Dilated cardiomyopathy

Giancarlo Todiere, MD – 6 h

Hypertrophic cardiomyopathies / Myocarditis / Ischemic CMP / LGE in non ischemic cardiomyopathy: prognostic value

Chrysanthos Grigoratos, MD - 2 h

CMR in vasculopathies

Pierluigi Festa, MD, PhD and Lami Ait Ali, MD – 10 h

Congenital heart disease: an overview / Bicuspid aortic valve and CMR study of aortic wall / Aortic coarctation and aortic arch anomalies / Dilatation of the right ventricle and anomalous pulmonary venous return / Post repaired Tetralogy of Fallot / Systemic right ventricle / Functionally Univentricular heart CMR evaluation pre and post palliation / CMR in congenital heart disease: Tips and tricks / CMR in pre and post interventional cardiac catheterization in congenital heart disease / Cases presentation of congenital heart diseases

Cristina Petersen, MD Ph.D. - 1 h

When and why Echo is better than MRI

Luna Gargani, MD Ph.D. - 1 h

Integrated cardio-pulmonary ultrasound: the physical examination of the III millennium

Alessia Gimelli, MD - 1 h

Myocardial scintigraphy: when and why

Alberto Clemente, MD - 1 h

Cardiac CT: when and why

Danilo Neglia, MD - 1 h

Multimodality imaging comparisons in CAD

Michele Emdin, MD Ph.D - 1 h

The clinician's point of view

