



**EMRI Erasmus  
Course  
Cardiovascular with  
CT correlation**

## *EMRI Erasmus Course Cardiovascular MRI with CT correlation*

**Rome, 13-14 June 2019**

This course focuses on teaching of clinical applications of CT and MR imaging of the heart and vascular system. Issues relevant to daily clinical practice will be discussed in plenary sessions, as well as more advanced topics and future outlooks. Workshops will be given to practice image processing tools for CT and MRI.

The course is aimed at Radiologists, Cardiologists, MR and CT technicians, Residents in radiology and cardiology, and Physicians and Physicists who currently are, or in the future will be working with cardiovascular MRI and CT are given the opportunity to get acquainted with basic as well as advanced applications of MRI and CT in cardiovascular diagnosis.

Those who pass an examination at the end of the course will receive a certificate.

CME-accreditation will be requested.

FEE: €500 for the 2-day course (trainees / residents €350, have your status certified by your head of department).

The registration includes a handout, coffee, lunches and a social event. Hotel is not included but we have a special hotel offer.

Cancellation: Refund of registration fee (minus 20%) will be made when cancellation is received at least 2 weeks prior to the course.

### **Thursday June 13th**

8.00-8.45 Registration

8.45-9.15 Introduction

(R. Manfredi, Rome, I)

9.15-9.45 Test

### **Basics**

9.45-10.15 CMR: basic technical principles  
H. Lamb (Leiden, NL)

10.15-10.45 CCT: basic technical principles  
GC. Savino (Rome, I)

10.45-11.00 **Coffee break**

11.00-11.30 CMR and CCT: how to deal with “difficulties”  
L.Natale (Rome, I)

11.30-12.00 Cross-sectional anatomy: coronary arteries  
GC. Savino (Rome, I)

12.00-12.30 Cross-sectional anatomy: chambers, valves, great vessels  
A. Meduri (Rome, I)

12.45-13.30 **Lunch**

### **Ischemic heart disease part I**

14.00-14.20 Coronary artery CTA: CAD detection, reporting, indications  
N. Galea (Rome, I)

14.20-14.50 Cardiac CT and risk stratification:  
R. Marano (Rome, I)

14.50-15.10 Cardiac CT after revascularization: stents and CABGs  
R. Marano (Rome, I)

15.10-15.30 Cardiac CT: new developments. Perfusion and FFR  
R. Marano (Rome, I)

### **15.45-18.30 Workshops**

WS I (60'): CCT: imaging post-revascularization (C. Loewe)

WS II (60'): Coronary CTA: stenosis quantification (R. Marano)

WS III (60'): CAD rule out/detection N. Galea (Rome, I)

## **Friday June 14th**

### **Ischemic heart disease II**

- 8.30-9.00 CMR in ischemic heart disease: from ischemia to chronic myocardial infarction. Detection, reporting, indications, outcome  
N. Galea (Rome, I)
- 9.30-10.00 CMR in non ischemic heart disease: cardiomyopathies and differential diagnosis of late gadolinium enhancement  
L. Natale (Rome, I)
- 10.00-10.20 CMR: parametric imaging (T1, T2, T2\* mapping)  
H. Lamb (Leiden, NL)
- 10.20-10.45 Nuclear Medicine perfusion imaging in CAD: SPECT and PET  
A. Giordano, (Rome, I)

### **10.45-11.00 Coffee break**

- 11.00-11.20 Diagnostic approach to congenital heart diseases pre- and post-treatment  
A. Secinaro (Rome, I)
- 11.20-11.50 CT and MR in acute and chronic aortic diseases: from lumen to vessel wall  
R. Marano (Rome, I)
- 11.50-12.15 CMR and CCT in valvular heart disease  
A. Meduri (Rome, I)
- 12.15-12.45 CMR: updates in myocarditis  
A. Esposito (Milan, I)
- 14.00-14.30 Electrophysiology and non invasive imaging (CMR and CCT)  
A. Esposito (Milan, I)
- 14.30-15.15 Cardiac masses and pericardium: CMR or CCT?  
L. Natale (Rome, I)

### **15.30-18.15 Workshops**

- Workshop IV: Non-ischemic myocardial diseases: differentials (L. Natale)
- Workshop V: Valvular heart diseases: practical concepts and cases  
(A. Meduri)
- Workshop VI: CMR in ischemic heart disease. Perfusion, acute infarction and viability: how I do it (N. Galea)

18.30-19.00 Test

19.00 Adjour

***Faculty***

**Antonio Esposito**

Institute of Radiology, S. Raffaele Hospital, Università Vita e Salute Milan, Italy

**Nicola Galea**

Institute of Radiology, Università La Sapienza Roma, Italy

**Alessandro Giordano**

Institute of Nuclear Medicine, Dept. of Bioimaging and Radiological Sciences, Catholic University of Rome, Italy

**Hildo Lamb**

Dept. of Radiology, Leiden University Medical Center, The Netherlands

**Riccardo Marano**

Institute of Radiology, Dept. of Bioimaging and Radiological Sciences, Catholic University of Rome, Italy

**Agostino Meduri**

Institute of Radiology, Dept. of Bioimaging and Radiological Sciences, Catholic University of Rome, Italy

**Giancarlo Savino**

Institute of Radiology, Dept. of Bioimaging and Radiological Sciences, Catholic University of Rome, Italy

**Luigi Natale**

Institute of Radiology, Dept. of Bioimaging and Radiological Sciences, Catholic University of Rome, Italy

**Aurelio Secinaro**

Radiology , IRCCS Ospedale Pediatrico Bambino Gesù, Rome, Italy

## **General Informations:**

### **Date and Venue**

June, 13-14, 2019

Radiology Institute, Fondazione Policlinico Universitario A. Gemelli

L.go A. Gemelli, 8 - 00168 Rome, Italy

### **Course organization**

Local: L. Natale (Rome, I)

Co-organizer: H. Lamb (Leiden, NL)

Contacts

L. Natale, Radiology – Catholic University, Fondazione Policlinico Universitario Gemelli IRCCS,  
Rome, Italy

Work phone: +39-06-30153516

Work email: [luigi.natale@unicatt.it](mailto:luigi.natale@unicatt.it)

### **Registration**

Please express your interest by email to the course contacts.

After registration, request a registration form, payment information and hotel information will be sent by email. Registration will be confirmed only after effective payment.