

# **Cardiovascular MRI with CT correlation**

## **Porto (PT), 26-28 th May 2021**

### **General Information**

This course is dedicated to teaching the clinical applications of CT and MRI of the heart and vessels. Different pathologies and important issues for daily clinical practice will be discussed in plenary sessions, as well as the technological advances that contribute to a faster and more reliable diagnosis including future perspectives. Workshops will be given to practice image processing tools for MRI.

The course is aimed at Radiologists, Cardiologists, MRI and CT Technicians, Residents in radiology and cardiology, Physicians and Physicists who currently work or will work in the future with MRI and/or CT regarding cardiovascular diagnosis. Participants will have the opportunity to familiarize themselves with the basic knowledge as well as the advanced applications of cardiovascular normal or pathologic conditions.

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

An application has been made to the EACCME® for CME accreditation of this event.

### **COURSE ORGANIZATION:**

Local: J. Alves Costa (Porto, P)

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

**VENUE:** Porto (specific address tba)

### **CONTACTS SECRETARIAT:**

Diana Martins, JCC Diagnostic Imaging

Rua Rosália de Castro n.4, Viana do Castelo, Portugal (Headquarters)

Work email: [ErasmusCoursePortugal@gmail.com](mailto:ErasmusCoursePortugal@gmail.com)

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### **FEE:**

Certified Radiologist/Specialist: 750€/ 800€ - for early / late registration (before / after November 30th, 2020)

Residents / trainees / MRI and CT Technicians (upon proof of status): 550€/ 600€ - for early / late registration (before / after November 30th, 2020)

**Bank Account:** IBAN: PT50 0010 0000 56601840002 87 **SWIFT/BIC:** BBPIPTPL

**Please mention:** Erasmus Course Cardiac 2021

The registration includes the course digital syllabus, coffee breaks, lunches and a meeting dinner. Hotel is not included but we have a special hotel offer.

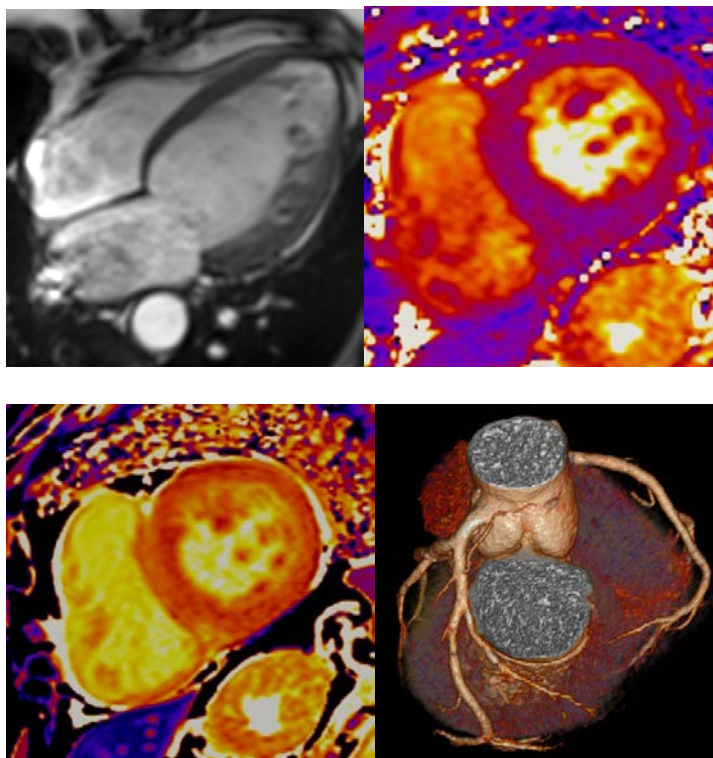
### **CANCELLATION POLICY**

#### **a. In case of cancellation by the participant**

1. Registrations cancelled more than 60 days before the event will be refunded 80% of the registration fees.
2. Registrations cancelled less than 60 but more than 30 days before the event will be refunded 50% of the registration fees.
3. Registrations cancelled less than 30 days before the event will not be eligible for a refund.

#### **b. In case of cancellation or postponement by the organizing committee due to exceptional circumstances (e.g. COVID-19 outbreak...)**

Participants will have the choice either to be refunded or to transfer their registration fee for the same module to be held later.



## **Faculty**

### **Hildo Lamb**

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

### **Albert de Roos**

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

### **Luigi Natale**

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

### **Marco Francone**

Dept. of Radiology, Università La Sapienza Roma, Italy

### **Rodrigo Salgado**

Dept. of Radiology, Antwerp University Hospital UZA, Antwerp, Belgium

### **Maria João Baptista**

Dept. of Pediatric Cardiology, Centro Hospitalar Universitário de São João, Porto, Portugal

### **Joana Alves Costa**

Cardiac Imaging Unit, JCC Diagnostic Imaging, Viana do Castelo – Vila Real – Braga – Porto, Portugal

### **Paulo Donato**

Faculdade de Medicina da Universidade de Coimbra

Dept. of Medical Imaging, Centro Hospitalar e Universitário de Coimbra, Portugal

### **Nuno Bettencourt**

Faculdade de Medicina do Porto, Portugal

### **Miguel Vieira**

Cardiac Imaging Unit, JCC Diagnostic Imaging, Viana do Castelo – Vila Real – Braga – Porto, Portugal

### **Henrique Rodrigues**

## **Program**

### **Wednesday 26 th May**

8.00-8.15: Registration

8.15-8.30: Introduction: (J. Alves Costa, Porto, P)

#### **Basics, Technical Issues and New Technologies**

8.30-9.00: CMR: the future is 3D and EZ: H. Lamb (Leiden, NL)

9.00-9.30: CCT acquisition: a refresh of basic technical aspects: N. Bettencourt (Porto, P)

9.30-10.00: CMR and CCT: challenges in acquisition: how do I managed difficult cases? L. Natale (Rome, I)

10.00- 10.20: Coronary arteries CT anatomy and variants J. Alves Costa (Porto, P)

10.20-10.40: Cardiac CT anatomy besides coronary arteries: M. Vieira (Porto, P)

10.45-11.05: Coffee break

#### **CCT and CMR: Ischemic Heart Disease**

11.10-11.30: Coronary CTA indications and how I report it: M. Vieira (Porto, P)

11.30-12.00: What to report in CTA for evaluation of stents and CABGs: R. Salgado (Antwerp, B)

12.00-12.30: New techniques: CT- FFR vs CMR stress perfusion: Nuno Bettencourt (Porto, P)

12.30-12.50: CMR in Ischemic Heart Disease: from perfusion to infarction: J. Alves Costa (Porto, P)

12.50-13.00: Questions & Answers

13.00-14.30: Lunch

14.30-17.45: Workshops

Workshop I (60'): CMR perfusion and viability: how I do it (L. Natale)

Workshop II (60'): Coronary CTA: stenosis quantification (N. Bettencourt)

Workshop III (60'): CT: anatomy of the heart and coronary arteries anomalies (M. Vieira)

### **Thursday 27 th May**

#### **CMR: Non Ischemic Myocardial Diseases**

8.30-9.00: The role of LGE differentiating non ischemic myocardial diseases: L. Natale (Rome, I)

9.00-9.30: Parametric imaging (T1, T2, T2\* mapping) and recent developments in Iron Quantification: H. Lamb (Leiden, NL)

9.30-10.00: Does T1 mapping and ECV minimize the need of biopsies in cardiac amyloidosis? H. Lamb (Leiden, NL)

10.05-10.25: Coffee break

10.30-11.00: Hypertrophic Cardiomyopathy - tissue characterization: M. Francone (Rome, I)

11.00-11.30: Myocarditis – the role of parametric imaging: A. de Roos (Leiden, NL)

11.30-12.00: Diabesity Imaging: H. Lamb (Leiden, NL)

12.00-12.10: Questions & Answers

12.15-13.45: Lunch

14.00-17.15: Workshops

Workshop IV (60'): Hypertrophic heart and CMR: different diagnosis (M. Francone)

Workshop V (60'): Myocarditis and special cases (A. de Roos)

Workshop VI (60'): CMR in non ischemic heart disease: differentials (M. Vieira)

## **Friday 28 th May**

### **Congenital Heart Disease and Novel Tools for Image Analysis**

8.15- 8.40: Pre-surgical evaluation of Congenital Heart Diseases: CMR or CCT? A. De Roos (Leiden, NL)

8.40-9.10: Post-surgical evaluation of Congenital Heart Disease patients: A. De Roos (Leiden, NL)

9.10-9.40: The cardiologic pediatric point of view: what is it important to know from CCT or CMR before surgical repair of different congenital heart diseases: M.J. Baptista (Porto, P)

9.40-10.10: Artificial Intelligence basics and cardiovascular applications: H. Lamb (Leiden, NL)

10.15-10.35: Coffee break

### **Valvular Heart Disease**

10.40-11.10: Evaluation Pre – and Pos- TAVI: R. Salgado (Antwerp, BE)

11.10-11.40: Valvular Heart Disease: CMR evaluation with 2D and 4D Flow: H. Lamb (Leiden, NL)

### **Aortic Diseases**

11.40-12.10: Acute and chronic aortic diseases: when to use CT or MR? R. Salgado (Antwerp, B)

### **Cardiac Masses and Pericardium**

12.10-12.40: Cardiac masses and pericardium: L. Natale (Rome, I)

12.40-12.55: Questions & Answers

13.10-14.40: Lunch

14.45-18.00: Workshops

Workshop VII: Congenital Heart Diseases: CCT cases (H. Rodrigues)

Workshop VIII: Evaluation of Aortic Stenosis: how I do it (R. Salgado)

Workshop IX: Aortic evaluation: acute syndromes and chronic diseases (Paulo Donato)

18.10-18.40: Test

18.40: Adjourn

Please if interested, follow the link below to register, and please send an email to [ErasmusCoursePortugal@gmail.com](mailto:ErasmusCoursePortugal@gmail.com), with the proof of payment. Payment information is indicated on the registration form.

After complete registration with effective payment, you will receive a confirmation email by the secretary also giving you options of hotels where you have a special price. You just need to inform the hotel that you will participate at ERASMUS COURSE CARDIAC PORTO, when booking your room.

Course registration is only effective after payment.