



**EMRI Erasmus
Course
Cardiovascular with
CT correlation**

Ulm, 11-12 October
2018 – final version

Endorsed by the Working Group cardiac and
vascular imaging of the German Roentgen
Society



Thursday October 11th, 2018

Registration and Introduction

08.15-09.00 Registration

09.00-09.15 Introduction

M. Beer (Ulm, D)

Basic elements of Cardiac CT

09.15-09.45 coronary and vascular anatomy

S. Klömpken (Ulm, D)

09.45-10.15 basic technical principles and radiation issues

M. Beer (Ulm, D)

10.15-10.45 patient preparation and contrast agent management

O. Klass (Köln, D)

10.45-11.00 **Coffee break**

Essential elements of Cardiac CT

11.00-11.30 coronaries I: calcium + FFR

M. Beer (Ulm, D)

11.30-12.00 coronaries II: plaques + stenoses

H. Brunner (Ulm, D)

12.00-12.30 valves (TAVI), stents, and bypasses

L. Lehmkuhl (Bad Neustadt, D)

12.30-14.00 **Lunch**

Clinical applications of Cardiac CT

14.00-14.20 guidelines and study update

B. Petritsch (Würzburg, D)

14.20-14.50 acute chest pain: differential diagnoses

Chr. Schnabel (Tübingen, D)

14.50-15.10 current and future indications including perfusion

Chr. Schlett (Heidelberg, D)

15.10-15.30 **Coffee break**

15.30-18.00 **Workshops**

WS I (45'): Hands-on CT

WS II (60'): Case reading CT

WS III (45'): Image processing CT

Friday October 12th, 2018

Basic elements of Cardiac MRI

09.00-09.30 cardiac anatomy plus variants

M. Radermacher (Ulm, D)

09.30-10.00 patient preparation and determination of heart axes

M. Beer (Ulm, D)

10.00-10.30 basic technical principles and innovations

V. Rasche (Ulm, D)

10.30-10.45 **Coffee break**

Essential elements of Cardiac MRI

10.45-11.15 morphology and function

D. Buckert (Ulm, D)

11.15-11.45 perfusion and flow

U. Reiter und G. Reiter (Graz, AUT)

11.45-12.15 late enhancement and mapping

M. Francone (Rome, IT)

12.15-13.45 **Lunch**

Clinical applications of Cardiac MRI

13.45-14.15 ischemic heart disease

A. de Roos (Leiden, NL)

14.15-14.45 cardiomyopathies including myocarditis

M. Pirnat (Maribor, SLO)

14.45-15.15 heart failure

R. Manka (Zürich, CH)

15.15-15.30 **Coffee break**

15.30-18.00 **Workshops**

WS I (45'): Hands-on MRI

WS II (60'): Case reading MRI

WS III (45'): Image processing MRI

18.30-19.00 Test

Faculty

External Faculty

Marco Francone

Institute of Radiology, Università La Sapienza Roma, Italy

Oliver Klass

Radiology, MediaPark-Klinik, Köln, Germany

Lukas Lehmkuhl

Institute of Radiology, RHÖN-KLINIKUM, Campus Bad Neustadt, Germany

Robert Manka

Institute of Radiology, UniversitätsSpital Zürich, Switzerland

Bernhard Petritsch

Institute of Radiology, University Hospital Würzburg, Germany

Maja Pirnat

Institute of Radiology, University Clinical Center, Maribor, Slovenia

Ursula Reiter

Department of Radiology, Medical University Graz, Austria

Gert Reiter

Department of Radiology, Medical University Graz, Austria

Albert de Roos

Department of Radiology, Leiden University Medical Center, The Netherlands

Christoph Schnabel

Department of Radiology, University Hospital Tübingen, Germany

Christopher Schlett

Department of Radiology, University Hospital Heidelberg, Germany

Internal Faculty

Department for Diagnostic and Interventional Radiology

Department for Cardiology

General Informations

Background: This course is part of an education initiative of twelve European universities, supported by the European Commission (ICP-92-B- 1071/12), aiming at the implementation of a standard course for the EC. The students are evaluated at the end of the courses and the Erasmus certificate is awarded to those who have successfully completed the entire series of courses within a three year period. The Erasmus Program is now incorporated in the SOCRATES program.

Course objectives: This course focuses on teaching of clinical applications of MR imaging of the heart and vascular system, with CT correlation. Issues relevant to daily clinical practice will be discussed in plenary sessions. Experts in the field using selected case material, displayed on workstations, provide more extensive individual teaching. A hands-on workshop will be held to practice MR and CT examinations, as well as image processing tools. The course is accessible for 50 participants.

Who should attend: Radiologists, Cardiologists, Residents in radiology and cardiology, 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.

Certificate: Those who pass a written examination at the end of the course will receive a certificate.

EACCME: applicated

Course Venue: Ulm University Medical Center, Ulm, Germany. Follow signs to course registration at the UKU – Albert-Einstein-Allee 23, 89081 Ulm, or go to the reception at the main entrance and ask for directions

Course 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.

Course organization: Local: Meinrad Beer, Clara Hoener (Ulm, D)

Clara.Hoener@honest-events.de