

Preparatory course to certification in CMR Thursday 23 March – Saturday 25 March, 2017



Course Director: Chiara Bucciarelli-Ducci (UK)

Co-Directors: Steffen E Petersen (UK), Sven Plein (UK)

Faculty: Jan Bogaert (BE), Massimo Lombardi (IT), Vivek Muthurangu (UK)

Target Audience

The course is designed for trainees and consultants, either cardiologists or radiologists that want to get certified in CMR by the EACVI.

Objectives

The programme encompasses a mix of interactive lectures, heavily hands-on practical with image analysis sessions on dedicated workstations performed directly by attendees.

It also includes the review of a number of clinical cases that will be certified and contribute to the logbook of cases to submit for ESC CMR certification.

Course Programme

Day 1 – Thursday 23 March

- 09:00-12:30 Registration
- 12:00-12:30 Lunch
- 12:30-12:35 Welcome and introduction – C. Bucciarelli-Ducci
- 12:35-13:05 Intro to ESC CMR exam – S. E Petersen
(questions' structure, scoring of exam, common errors and pitfalls)
- 13:05-13:35 Physics-basic principles and signal encoding – V. Muthurangu
- 13:35-14:15 Physics-basic and advanced pulse sequences/techniques – V. Muthurangu
- 14:15-14:45 **Exam questions demo test n1 and discussion** – V. Muthurangu
- 14:45-15:15 **Tea/Coffee Break**
- 15:15-15:35 Hypertrophic cardiomyopathy – J. Bogaert
- 15:35-15:55 ARVC – M. Lombardi
- 15:55-16:15 DCM, LVNC and transplant – S. E Petersen
- 16:15-16:35 Cardiac involvement in secondary disease – M. Lombardi
- 16:35-17:05 **Exam questions demo test n2 and discussion** – SEP / ML / JB
- 17:05-17:35 **Short break**
- 17:35-17:45 Presentation of software by Medis
- 17:45-17:55 Presentation of software by Pie Medical Imaging
- 17:55-18:05 Presentation of software by Circle Cardiovascular Imaging
- 18:05-19:35 **Cases on workstations n1 –Non-Ischaemic** – SEP / ML / JB
- 20:30 **Group dinner**

Day 2 – Friday 24 March

- 08:30-08:50 CMR safety/set up/devices – M. Lombardi
- 08:50-09:10 CMR methodology and applications – S. E Petersen
- 09:10-09:30 Image quality/artefacts/scan optimization – V. Muthurangu
- 09:30-10:00 **Exam questions demo test n3 and discussion** – VM / SEP / ML

10:00-10:30 Tea/Coffee Break

10:30-11:20 Congenital- sequences and specific lesions – V. Muthurangu

11:20-11:40 Aorta and pulmonary vessels – J. Bogaert

11:40-12:00 Valves anatomy/pathology assessment – J. Bogaert

12:00-12:20 **Exam questions demo test n4 and discussion** – VM / JB

12:20-13:20 Lunch

13:20-15:05 **Cases on workstations n2 – Valve/Vascular/Congenital** – VM / JB

15:05-15:35 Tea/Coffee Break

15:35-15:55 CMR in chronic ischemic heart disease – S. Plein

15:55-16:15 CMR in acute ischemic heart disease – C. Bucciarelli-Ducci

16:15-16:35 Myocarditis and TakoTsubo – C. Bucciarelli-Ducci

16:35-17:05 **Exam questions demo test n5 and discussion** – CBD / SP

17:05-18:30 **Cases on workstations n3 – Ischemic** – CBD/SP

Day 3 – Saturday 25 March

08:30-08:50 CMR in Pericardial disease – J. Bogaert

08:50-09:10 Cardiac masses/tumours – J. Bogaert

09:10-09:30 Incidental non-cardiovascular findings – S. Plein

09:30-10:00 **Exam questions demo test n6 and discussion** – SP / JB

10:00-10:30 **Ask the Experts:** free questions from attendees – All

10:30-11:00 Tea/Coffee Break

11:00-12:15 **Cases on workstations n4 – Pericardial/masses/incidental** – JB/SP

12:15-13:00 **Final Exam questions demo test and discussion** – CBD / SP / All

13:00-13:15 Feed-back

End of course

*Grouped transportation by bus from the European Heart House to **Nice Airport.***