

**Course Director:** Chiara Bucciarelli-Ducci (UK)

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

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

#### 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 simulation scanning and image analysis sessions on dedicated workstations performed directly by attendees.

It also includes a review of clinical 50 cases that can contribute to the logbook of cases to submit for ESC CMR certification.

## Scientific Programme

### Day 1 - Thursday 17<sup>th</sup> March

09:00-13:00 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  
(questions' structure, scoring of exam, common errors and pitfalls)

S. E Petersen

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

15:15-15:45 CMR safety/set up/devices

M. Lombardi

15:45-16:05 CMR methodology and applications

S. E Petersen

16:05-16:35 Image quality/artefacts/scan optimization

V. Muthurangu

16:35-17:05 **Exam questions demo test n2 and discussion**

CBD / SEP / ML

17:05-17:15 Short break

17:15-19:00 Cases on workstations n1 – Pulse sequences and artefacts

All

20:00 Group dinner

### Day 2 - Friday 18<sup>h</sup> March

08:30-08:50 Hypertrophic cardiomyopathy

J. Bogaert

08:50-09:10 ARVC

M. Lombardi

09:10-09:30 DCM, LVNC and transplant

S. E Petersen

09:30-09:50 Cardiac involvement in secondary disease

M. Lombardi

09:50-10:20 **Exam questions demo test n3 and discussion**

SEP / ML / JB

10:20-10:40 Tea/Coffee Break

10:40-11:40 Congenital- sequences and specific lesions

V. Muthurangu

11:40-12:00 Aorta and pulmonary vessels

J. Bogaert

12:00-12:30 Valves anatomy/pathology assessment

J. Bogaert

12:30-13:00 **Exam questions demo test n4 and discussion**

VM / JB

13:00-14:00 Lunch

# EUROPEAN HEART HOUSE

## Preparatory course to certification in CMR

Thursday 17 March – Saturday 19 March, 2016



14:00-15:15 Cases on workstations n2 – Valve/Vascular/Congenital

VM / SP / JB

15:15-15:30 Tea/Coffee Break

15:30-15:50 CMR in chronic ischemic heart disease

S. Plein

15:50-16:10 CMR in acute ischemic heart disease

C. Bucciarelli-Ducci

16:10-16:30 Myocarditis and TakoTsubo

C. Bucciarelli-Ducci

16:30-17:00 Exam questions demo test n5 and discussion

CBD / SP

17:00-18:30 Cases on workstations n3 – Ischaemic and Non-Ischaemic

All

### Day 3 - Saturday 19<sup>th</sup> 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

10:30-10:50 Tea/Coffee Break

10:50-12:00 Cases on workstations n4 – Pericardial/masses/incidental

All

12:00-12:50 Final Exam questions demo test and discussion

CBD / SP / All

12:50-13:00 Certificated and feed-back

End of course