

**EACVI**European Association of
Cardiovascular Imaging

EACVI Preparatory Course to Certification in CMR

– 29th September – 1st October 2022 –

European Heart House, Sophia Antipolis, France

Course Director

Chiara Bucciarelli-Ducci (UK)

Co-Director

Steffen E. Petersen (UK)

Faculty Members

Bernhard Gerber (BE), Vivek Muthurangu (UK), Luigi Natale (IT), Mark Westwood (UK)

Course Programme

Day 1 – Thursday 29th September (Physics pre-course 08:00-12:00)

08:00-08:30 Registration

08:30-08:35 Welcome and introduction – C. Bucciarelli-Ducci

08:35-10:00 Physics: The basics of signal generation ; Spatial encoding – V. Muthurangu

10:00-10:30 Tea/Coffee Break

10:30-12:00 Physics: Tissue contrast ; Flow imaging – V. Muthurangu

12:00-12:30 Lunch

12:30-12:50 Intro to ESC CMR exam – S. E Petersen
(questions' structure, scoring of exam, common errors and pitfalls)

12:50-13:35 Physics-basic principles and signal encoding – V. Muthurangu

13:35-14:05 CMR safety/set up/devices – L. Natale

14:05-14:35 Tea/Coffee Break

14:35-15:15 Physics-basic and advanced pulse sequences/techniques – V. Muthurangu

15:15-15:35 Exam questions demo test n1 and discussion – V. Muthurangu

15:35-15:55 HCM and ARVC – C. Bucciarelli-Ducci

15:55-16:15 DCM, LVNC and transplant – S. E Petersen

16:15-16:35 Cardiac involvement in secondary disease – M. Westwood

16:35-17:05 Exam questions demo test n2 and discussion – C. Bucciarelli-Ducci, S. E Petersen,
M. Westwood

17:05-17:35 Short break

17:35-19:35 Cases on workstations n1 –Non-Ischaemic – S. E Petersen, M. Westwood, L. Natale

20:30-22:30 Group dinner at the hotel

**ESC**European Society
of Cardiology

**EACVI**European Association of
Cardiovascular Imaging**Day 2 – Friday 30th September**

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 – V. Muthurangu, Steffen E. Petersen,
Mark Westwood

10:00-10:30 Tea/Coffee Break

10:30-10:50 CMR in Pericardial disease – L. Natale
10:50-11:20 Cardiac masses/tumors – L. Natale
11:20-11:50 Incidental non-cardiovascular findings – B. Gerber
11:50-12:20 Exam questions demo test n4 and discussion – L. Natale, B. Gerber

12:20-13:20 Lunch**13:20-15:05 Cases on workstations n2 – Pericardial/masses/incidental – L. Natale, B. Gerber****15:05-15:35 Tea/Coffee Break**

15:35-16:05 CMR in chronic ischaemic heart disease – B. Gerber
16:05-16:35 CMR in acute coronary syndromes (infarction, myocarditis, TakoTsubo) – C. Bucciarelli-Ducci
16:35-17:05 Exam questions demo test n5 and discussion – C. Bucciarelli-Ducci / B. Gerber
17:05-18:30 Cases on workstations n3 – Ischemic – C. Bucciarelli-Ducci / B. Gerber

Day 3 – Saturday 1st October

08:30-08:50 Congenital sequences and specific lesions – V. Muthurangu
08:50-09:10 Aorta and pulmonary vessels – V. Muthurangu
09:10-09:30 Valves anatomy/pathology assessment – M. Westwood
09:30-10:00 Exam questions demo test n6 and discussion – V. Muthurangu, M. Westwood
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 – Valve/Vascular/Congenital – V. Muthurangu, M. Westwood**

12:15-13:00 Final Exam questions demo test and discussion – C. Bucciarelli-Ducci, V. Muthurangu,
M. Westwood

13:00-13:15 Feed-back

End of course, lunch box and grouped transportation by bus from the European Heart House to Nice Airport

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**NEOSOFT****ESC**European Society
of Cardiology