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
20:30-22:30  Group dinner at the hotel
### Day 2 – Friday 30th September

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>08:50-09:10</td>
<td>CMR methodology and applications – S. E Petersen</td>
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<tr>
<td>09:10-09:30</td>
<td>Image quality/artefacts/scan optimization – V. Muthurangu</td>
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<tr>
<td>09:30-10:00</td>
<td>Exam questions demo test n3 and discussion – V. Muthurangu, Steffen E. Petersen, Mark Westwood</td>
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#### 10:00-10:30 Tea/Coffee Break

- CMR in Pericardial disease – L. Natale
- Cardiac masses/tumors – L. Natale
- Incidental non-cardiovascular findings – B. Gerber
- Exam questions demo test n4 and discussion – L. Natale, B. Gerber

#### 12:20-13:20 Lunch


#### 15:05-15:35 Tea/Coffee Break

- CMR in chronic ischaemic heart disease – B. Gerber
- CMR in acute coronary syndromes (infarction, myocarditis, TakoTsubo) – C. Bucciarelli-Ducci
- 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

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<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>08:30-08:50</td>
<td>Congenital sequences and specific lesions – V. Muthurangu</td>
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<tr>
<td>08:50-09:10</td>
<td>Aorta and pulmonary vessels – V. Muthurangu</td>
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<td>09:10-09:30</td>
<td>Valves anatomy/pathology assessment – M. Westwood</td>
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<td>09:30-10:00</td>
<td>Exam questions demo test n6 and discussion – V. Muthurangu, M. Westwood</td>
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<td>10:00-10:30</td>
<td>Ask the Experts: free questions from attendees – All</td>
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#### 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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