



Portuguese Society of Cardiology

Rua do Campo Alegre, 830 - Sala 8

Porto, Portugal

Day 1: Thursday, 30th of May 2019

8:30 REGISTRATION

9:00 Welcome and Objectives

9:10 - 10:40 Introduction into MR Physics

10:40 - 11:00 MR sequences for CMR application

11:00 - 11:20 Coffee-break

11:20 - 11:40 Contrast agents

11:40 - 12:00 MRI Safety

12:00 - 12:30 Patient preparation & CMR Basic planning for scanning

12:30 - 14:00 LUNCH BREAK

14:30 - 18:30 HANDS-ON: Acquisition, advanced post-processing and toolbox-overview

GROUP A: Acquisition & post-processing

- Rotation: (2 groups of 6 participants)
 1. Patients and Volunteer Scanning”;
 2. Optimising image quality”;image Reading & recognition of artefacts

GROUP B: Post-processing and case reading

- Rotation: (4 groups of 3 participants)
 1. Morphology and functional analysis using CMR;
 2. Ischemic cases review;
 3. Congenital cases review;
 4. Cardiomyopathies review.

Day 2: Friday, 31st of May 2019

9:00 - 9:20 Scar and viability assessment: LGE

09:20 - 09:50 Cardiomyopathies

09:50 - 10:10 Myocarditis

10:10 - 10:25 Cardiac Iron Overload

10:25 - 11:00 Masses and Pericardium

11:00 - 11:20 Coffee-break

11:10 - 11:30 Flow Imaging MRI Physics and Clinical Application

11:30 - 11:50 MR Aortic Angiography

11:50 - 12:10 Adenosine Stress MR

12:10 - 12:30 Dobutamine Stress MR

12:30 - 14:00 LUNCH BREAK

14:30 - 18:30 HANDS-ON: Acquisition, advanced post-processing and toolbox-overview

GROUP B: Acquisition & post-processing

- Rotation: (2 groups of 6 participants)
 1. Patients and Volunteer Scanning”;
 2. Optimising image quality”; image Reading & recognition of artefacts

GROUP A: Post-processing and case reading

- Rotation: (4 groups of 3 participants)
 1. Morphology and functional analysis using CMR;
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Day 3: Saturday, 1st of June 2019

- 9:00 - 9:30 Congenital Heart Disease – Segmental Approach to Diagnosis
- 9:30 - 10:00 Imaging in Children and Adults with Congenital Heart Disease: The current role of MRI
- 10:00 - 10:30 Sedation and Anaesthesia in MR environment
- 10:00 - 11:00 New developments in CMR / Future directions
- 11:00 - 11:20 Coffee-break**
- 11:20 - 11:50 CMR Reporting
- 12:00 - 13:00 CMR Evaluation: self-test MCQs (30-45 min)
Answers and Discussions
- 13:00 - 13:30 Course adjourn and evaluation

LIMITED TO A MAXIMUM OF 24 PARTICIPANTS