

PORTO CMR

Level 1 Course

ACADEMIA CARDIOVASCULAR
Sociedade Portuguesa de **CARDIOLOGIA**



**Academia
Cardiovascular**
Sociedade Portuguesa de **CARDIOLOGIA**



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PORTO CMR
Level 1 Course

Director: *Nuno Bettencourt, MD, PhD, FESC, FACC, FSCMR, FSCCT*

Number of vacancies: 24

Day 1: Thursday, 30 of May 2024

08h30 - Registration

08h50 - Welcome and Objectives

09h00 - Introduction into MR Physics

09h50 - MR sequences for CMR application

10h50 - Coffee-break

11h20 - MRI Safety

11h40 - Contrast agents

12h00 - Patient preparation & CMR Basic planning for scanning

12h30 - Lunch Break

14h30 - HANDS-ON: Acquisition, advanced post-processing and toolbox-overview

GROUP A: Acquisition & post-processing

Rotation: (2 groups of 6 participants)

Patient Scanning, Image Evaluation/Optimization & Reporting Scanning 3/4 patients

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, 31 of May 2024

08h30 - Day one overview. Feed-back forms

08h50 - Scar and viability assessment: LGE

09h10 - Cardiomyopathies

09h40 - Myocarditis

10h00 - Cardiac Iron Overload

10h15 - Pericardium

10h30 - Coffee-break

11h00 - Flow Imaging MRI Physics and Clinical Application

11h15 - MR Aortic Angiography

11h30 - Stress CMR

12h00 - Cardiac Masses

12h30 - Lunch Break

14h30 - HANDS-ON: Acquisition, advanced post-processing and toolbox-overview

GROUP A: 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.

GROUP B: Acquisition & post-processing

Rotation: (2 groups of 6 participants)

Patient Scanning, Image Evaluation/Optimization & Reporting Scanning 3/4 patients



Day 3: Saturday, 1 of Junho 2024

08h30 - Day two overview. Feed-back forms

08h50 - Congenital Heart Disease - Segmental Approach to Diagnosis

09h20 - Imaging in Children and Adults with Congenital Heart Disease:
The current role of MRI

09h50 - Sedation and Anaesthesia in MR environment

10h10 - CMR for Prognosis

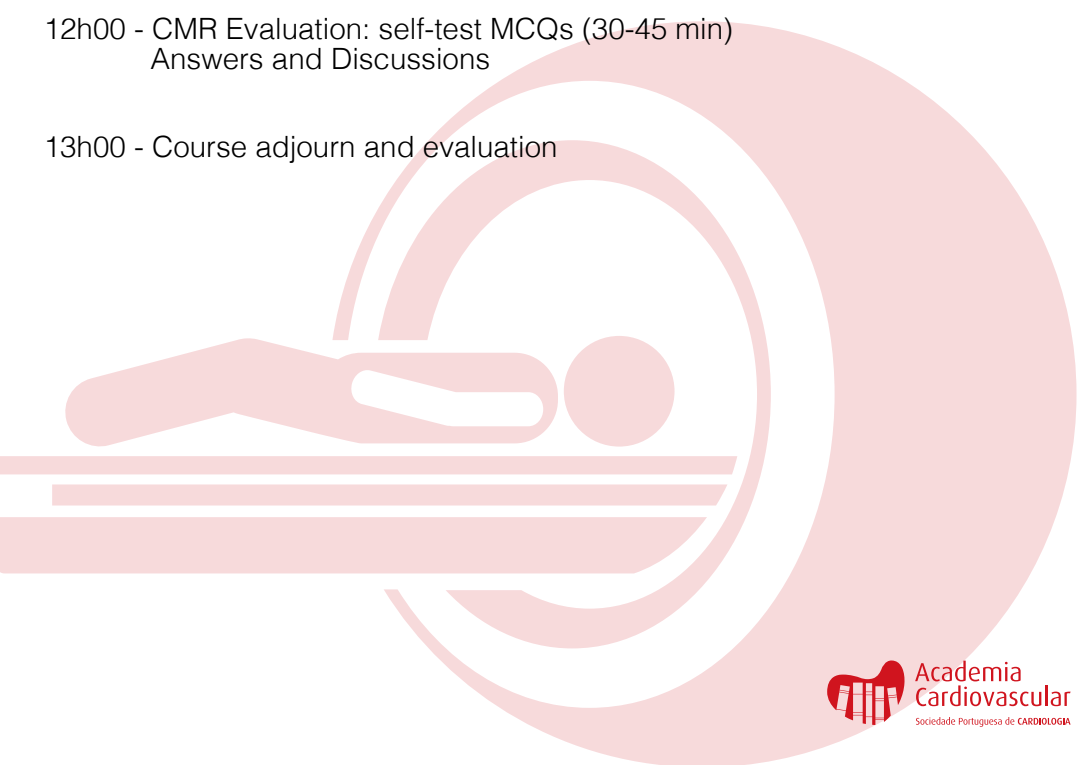
10h30 - Coffee-break

11h00 - New developments in CMR / Future directions

11h20 - CMR Reporting

12h00 - CMR Evaluation: self-test MCQs (30-45 min)
Answers and Discussions

13h00 - Course adjourn and evaluation





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