PORTO CCT
Level 1 Course

ACADEMIA CARDIOVASCULAR
Sociedade Portuguesa de **CARDIOLOGIA**

Academia
Cardiovascular
Sociedade Portuguesa de **CARDIOLOGIA**

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PORTO CCT
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CCT

Duration - 28 hours

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

Training Program & Institution
Cardiovascular R&D Unit - Faculty of Medicine, University of Porto
Cardiovascular Academy - Portuguese Society of Cardiology

Trainees
Cardiologists; Radiologists; Cardiologists in training;
Radiologists in training; Radiographers

Objectives
To provide high quality and clinically relevant CCTA level I training (introductory training for familiarity with CCT) – working as a complement to a mandatory ≥4-week period of dedicated fellowship.
This training provides appropriate basic background in CCT for clinical practice in cardiology or general radiology – and focus in important clinical components, namely appropriate indications, limitations, patient preparation, scan-acquisition and post-processing.
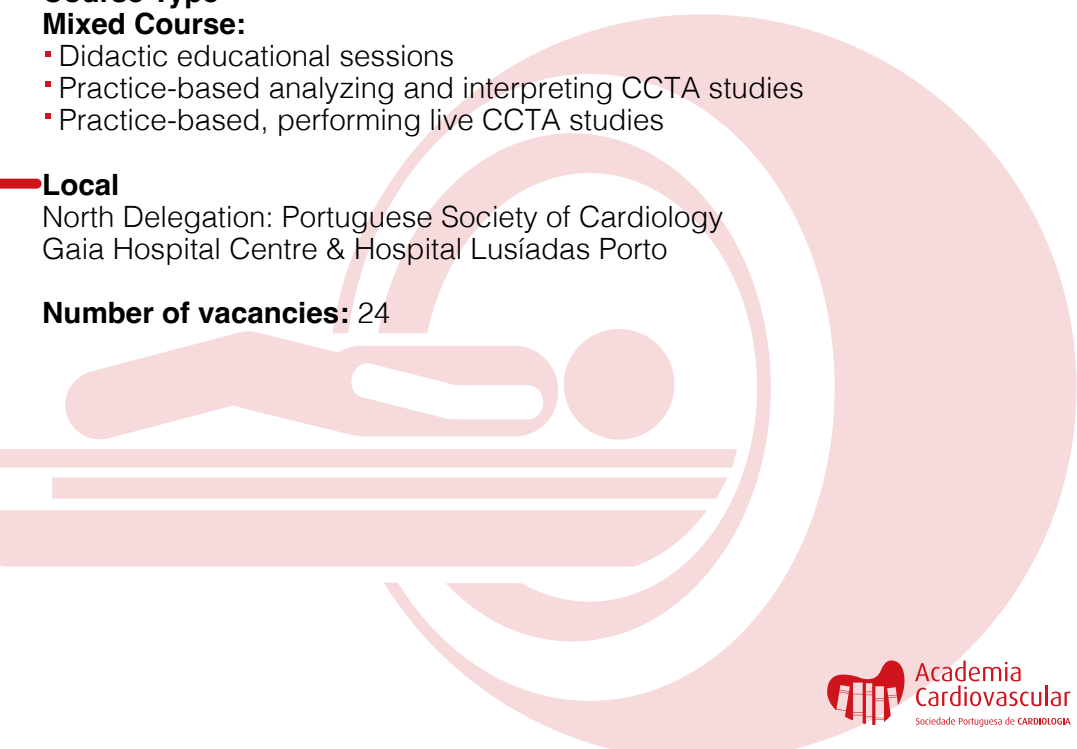
Course Type
Mixed Course:
- Didactic educational sessions
- Practice-based analyzing and interpreting CCTA studies
- Practice-based, performing live CCTA studies

Local
North Delegation: Portuguese Society of Cardiology
Gaia Hospital Centre & Hospital Lusíadas Porto

Number of vacancies: 24

08h00 - Registration & Welcome

08h30 - Introduction to the course: Learning objectives/evaluation
Nuno Bettencourt

08h40 - MDCT: Basic principles & technical developments
Nuno Bettencourt

09h10 - Radiation in Cardiac CT
Ricardo Ladeiras Lopes

09h40 - Contrast media in Cardiac CT
Miguel Correia

10h00 - Indications for Cardiac CT
Luís Oliveira

10h20 - *Coffee-break*

10h50 - Topographic cardiac & coronary anatomy
Ana Almeida

11h10 - Patient preparation. Medication in Cardiac CT
Ana Faustino

11h30 - Acquisition protocols. Optimization
Mónica Carvalho

11h50 - Calcium Score
Pedro Matos

12h10 - Coronary angiography
António Miguel Ferreira

12h30 – *Lunch*

14h30 – 19h00 – Pratical Sessions / *Hands-on*

Grupo A: Performing live CCTA studies
Protocols of acquisition and reconstruction
Expert mentoring in patient selection, patient preparation, scan planning and acquisition, data set reconstruction and scan interpretation (2 groups of 6 trainees)
   a) ULSG/E – *Nuno Ferreira, Rita Faria, Mariana Silva, Ana Pimentel, MónicaCarvalho.*
   b) Hospital Lusíadas Porto – *Nuno Bettencourt, Américo Santos, Gisela Sousa*

Grupo B: Analyzing and interpreting CCTA studies. Post-processing
Hands-on workstation experience: 1-2 participants per workstation (rotation of 4 groups of 3 trainees)
   1. Tool-box overview & Calcium Scoring - *António Ferreira / Pedro Matos*
   2. Native coronary angiography – *Catarina Ferreira / Miguel Correia*
   3. Coronary stents & bypass grafts evaluation – *Adriana Pereira / Luís Oliveira*
   4. Aorta; TAVI & Structural intervention planning – *Mariana Vasconcelos / Luís Puga*

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08h00 - Overview of Day 1

08h30 - Feedback forms. Groups distribution
Nuno Bettencourt

08h40 - Visualization & Post-processing
Adriana Pereira

09h00 - Quantification of volumes & function evaluation.
Ana Almeida

09h20 - Valve Evaluation. TAVI
Nuno Ferreira

09h50 - MDCT in AF: LAA closure & P.V. ablation
Rita Faria

10h10 - Aorta. TEVAR
Rita Faria

10h30 - *Coffee-break*

11h10 - Extra-cardiac findings
Raquel Themudo

11h30 - New developments: Perfusion, FFR-CT, …
Mariana Silva

11h50 - Interpretation & reporting
Catarina Ferreira

12h30 – *Lunch*

14h30 – 19h00 – Pratical Sessions / *Hands-on*

Grupo B: Analyzing and interpreting CCTA studies. Post-processing
Hands-on workstation experience: 1-2 participants per workstation (rotation of 4 groups of 3 trainees)
1. Tool-box overview & Calcium Scoring - *António Ferreira / Pedro Matos*
2. Native coronary angiography – *Catarina Ferreira / Miguel Correia*
3. Coronary stents & bypass grafts evaluation – *Adriana Pereira / Luís Oliveira*
4. Aorta; TAVI & Structural intervention planning – *Mariana Vasconcelos / Luís Puga*

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08h00 - Overview of Day 2. Feedback forms. Software overview

08h30 - Tutorized Case Reading (I)
Ana Almeida; António Ferreira; Rita Faria; Ana Faustino; Adriana Pereira; Nuno Ferreira

Correlation with invasive coronary angiography
Hands-on workstation experience: 2 participants per workstation

10h30 – ***Coffee-break***

11h00 - Tutorized Case Reading (II)
Catarina Ferreira; Mariana Vasconcelos; Mariana Silva; Pedro Matos; Raquel Themudo

Correlation with invasive coronary angiography
Hands-on workstation experience: 2 participants per workstation

12h30 - CCT Evaluation: self-test MCQs (30-45 min)

Answers and Discussions
Nuno Bettencourt; David Monteiro

14h00 - Course adjourn and evaluation

Participants must be present in all the course sessions and to fill the case-logbook in order to obtain the course certificate.

Limited to a maximum of 24 participants

SCCT
Endorsed Course

Endorsed by the Society of Cardiovascular Computed Tomography, the professional society devoted exclusively to cardiovascular CT.
SCCT has no involvement with the organization or administration of this course. SCCT endorses this content as relevant and to benefit to the cardiovascular computed tomography community.

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