

# PORTO CCT

## Level 1 Course

**ACADEMIA CARDIOVASCULAR**  
Sociedade Portuguesa de **CARDIOLOGIA**



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



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**PORTO CCT**  
Level 1 Course

**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  $\geq 4$ -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**

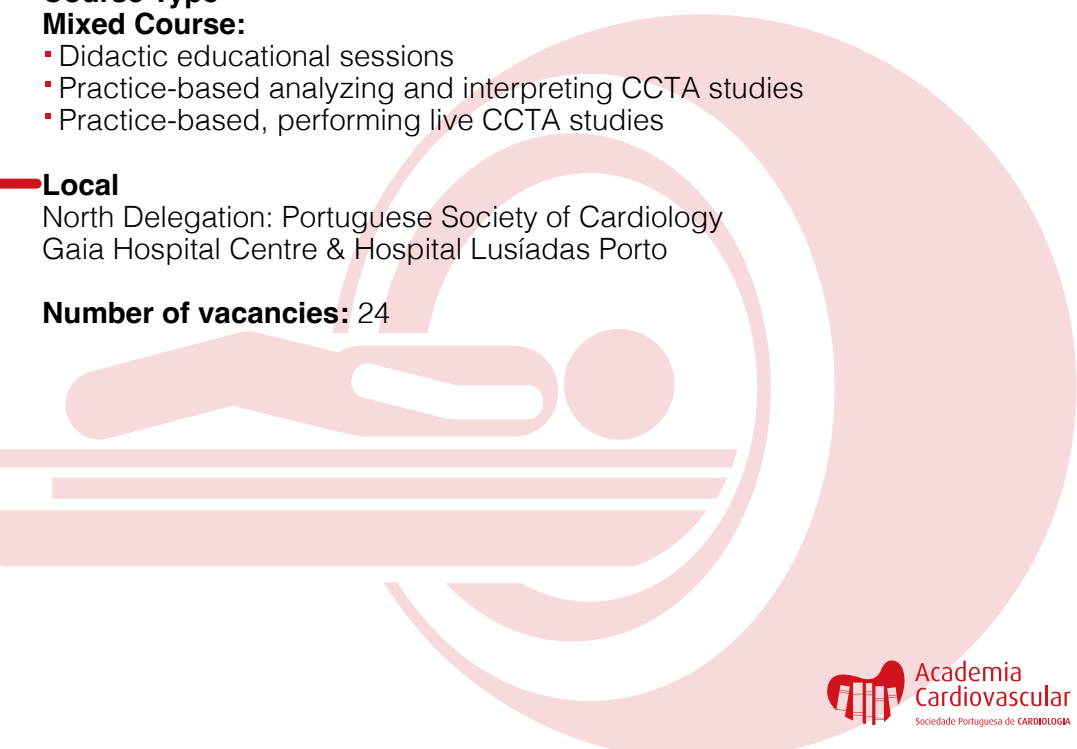
**Mixed Course:**

- 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

**08h40** - MDCT: Basic principles & technical developments

**09h10** - Radiation in Cardiac CT

**09h40** - Contrast media in Cardiac CT

**10h00** - Indications for Cardiac CT

**10h20** - **Coffee-break**

**10h50** - Topographic cardiac & coronary anatomy

**11h10** - Patient preparation. Medication in Cardiac CT

**11h30** - Acquisition protocols. Optimization

**11h50** - Calcium Score

**12h10** - Coronary angiography

**12h30** – **Lunch**

**14h30 – 19h00** – Practical 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
- b) Hospital Lusíadas Porto

**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
2. Native coronary angiography
3. Coronary stents & bypass grafts evaluation
4. Aorta; TAVI & Structural intervention planning

**08h00** - Overview of Day 1

**08h30** - Feedback forms. Groups distribution

**08h40** - Visualization & Post-processing

**09h00** - Quantification of volumes & function evaluation.

**09h20** - Valve Evaluation. TAVI

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

**10h10** - Aorta. TEVAR

**10h30** - **Coffee-break**

**11h10** - Extra-cardiac findings

**11h30** - New developments: Perfusion, FFR-CT, ...

**11h50** - Interpretation & reporting

**12h30** – **Lunch**

**14h30 – 19h00** – Practical 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
2. Native coronary angiography
3. Coronary stents & bypass grafts evaluation
4. Aorta; TAVI & Structural intervention planning

**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)*

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

**08h30** - Tutorized Case Reading (I)

Correlation with invasive coronary angiography

*Hands-on workstation experience: 2 participants per workstation*

**10h30** – **Coffee-break**

**11h00** - Tutorized Case Reading (II)

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

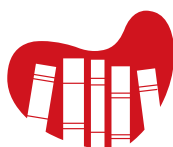
**14h00** - Course adjourn and evaluation

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**



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.



Academia  
Cardiovascular

Sociedade Portuguesa de **CARDIOLOGIA**



22 606 07 44



[academia.cardiovascular@spc.pt](mailto:academia.cardiovascular@spc.pt)



Rua do Campo Alegre 830, Sala 8, 4150-180 Porto