



2026

VI (SPECTRAL) LEVEL 1-2 MADRID CARDIAC CT ACADEMY



Intensive CCT course
Same program – More focused format
100 % Online English edition

Presidents: Dr. Castellaccio / Dr. Almeida / Dr. Vañó

COURSE PRESENTATION

Dear colleagues,
Join us for the **6th MADRID CARDIAC CT (SPECTRAL) ACADEMY**, taking place from September 21 to 25, 2026 – **a fully live, online, interactive hands-on course in cardiac CT imaging.**

This hands-on course is designed for those physicians who wish to acquire or enhance their knowledge in cardiac CT through independent interpretation of numerous cases, under the supervision of **EACVI LEVEL 3 Expert Physicians** with extensive experience in this field.

A minimum of 150 cases will be reviewed, while simultaneously helping towards meeting the requirements for the international **Level 2** certification “*Independent Practitioner*” from **EACVI** (*practical part – logbook*). A broad spectrum of cardiac pathologies will be covered, from arteriosclerotic disease to congenital/post-surgical pathology comparing with FFR-CT and invasive angiography. Concepts and utility of spectral CT in cardiovascular imaging will also be taught.

- *5 + 1 days fully online* hands-on course organized by PRECISION IMAGING S.L.
- Supervised by Expert physicians in Cardiac CT (EACVI Level 3)
- Language: English
- Based on cases with lectures by Expert speakers in cardiac imaging
- Individual advanced workstation (limited number of students)
- Multivendor
- Each student will independently report at least 150 cases, certified through a logbook, helping towards meeting the requirements for **EACVI LEVEL 2** (*except for live cases – check the requirements in EACVI-CCT webpage*)
- Ideal for Radiologists and Cardiologists
- Pre-course online live session and material
- Pre-TEST and Final TEST
- Web: <https://cardiac.academy>
- 30 teaching hours, certified with: **30 CPD credits and ECTS credits (UFV)**
- **SEICAT endorsed**
- Level 1 certification is not required

Program and lectures are based on recent ESC Guidelines and ESC constituent bodies consensus documents.



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LEARNING OBJECTIVES

- Learn how to perform a cardiac CT study, including when and how to use various existing protocols.
- Optimize *radiation dose*
- Understand cardiac and coronary anatomy and how to assess coronary arteriosclerotic disease.
- Familiarize yourself with CAD RADS 2.0.
- Learn how to perform and interpret pre-TAVI studies.
- Recognize and interpret studies related to congenital heart disease and post-surgical conditions.
- Become proficient in using an advanced Workstation.
- Gain knowledge about the utility and advantages of spectral CT in cardiovascular imaging (PHILIPS).
- Boost confidence, understanding, and capability to work independently while simultaneously helping towards meeting the requirements for the international *EACVI CCT LEVEL 2 certification* (*check the requirements in EACVI-CCT webpage*)



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PROFESSORS

Course Directors

Dr. Antonio Castellaccio – Head of Cardiovascular radiology section Hospital Universitario Nuestra Señora del Rosario, Madrid

Dr. Nicolas Almeida – Head of Thoracic radiology section Hospital Universitario Nuestra Señora del Rosario, Madrid

Dr. Eliseo Vañó – Chief of Radiology department Hospital Universitario Nuestra Señora del Rosario, Madrid

Professors

Dr. José Luis Zamorano – Chief of Cardiology department Hospital Univesitario Ramon y Cajal, Madrid

Dra. Montserrat Bret – Hospital Universitario La Paz, Madrid

Dra. Beatriz Cabeza – Hospital Universitario Clínico San Carlos, Madrid

Dr. Emilio Cuesta – Hospital Universitario La Paz, Madrid

Dr. José Juan Gómez de Diego – Hospital Universitario Clínico San Carlos, Madrid

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PROGRAM – PRE COURSE (DAY 0)

14.00 **Pre-test**

14.30 Learning how to use the workstation

15.00 Cardiac and coronary anatomy, standard nomenclature and cardiac dominance *with case session*

16.30 Calcium score *with case session*

17.30 **Closure**

Video recorded classes

Calcium scoring

Why do I need a Spectral CT in Cardiology?

Basic concepts in cardiac CT

Acquisition and contrast injection protocol

Ischemia and viability Spectral detector CT

Medication and contraindication

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PROGRAM (DAY 1) – MONDAY

1.50 pm	Course presentation
2.00 pm	Cardiac CT physics and characteristics and protocols
2.40 pm	<i>Case session 1: Native coronary artery disease</i>
4.00 pm	Break
4.30 pm	Radiation and contrast dose optimization in CCTA
5.00 pm	CAD-RADS 2.0 and reporting
5.30 pm	<i>Case session 2: Native coronary artery disease</i>
7.00 pm	<i>Case session 3: test your knowledge</i>
8.00 pm	Closure

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PROGRAM (DAY 2) – TUESDAY

2.00 pm	Spectral CT (Philips)
2.30 pm	Artifacts, solutions and difficult cases
3.00 pm	Case session 4: Native coronary artery disease
4.00 pm	Break
4.30 pm	FFR-CT Based on Fluid Mechanics
5.00 pm	Case session 5: Native coronary artery disease compared with FFR-CT
6.30 pm	Case session 6: Interactive quiz session
7.00 pm	Case session 7: test your knowledge
8.00 pm	Closure

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PROGRAM (DAY 3) – WEDNESDAY

2.00 pm	Stents and by-pass grafts
2.30 pm	Case session 8: Stents and by-pass grafts
4.00 pm	Break
4.30 pm	FFR-CT Based on Fluid Mechanics 2.0
5.00 pm	Cardiac CT: role in cardiovascular interventions 1 (TAVI planning and left appendage closure device...)
5.30 pm	Case session 9-10: TAVI and left appendage closure device
6.30 pm	Cardiac CT: role in cardiovascular interventions 2 (TAVI, PV ablation, mitral...)
7.00 pm	Case session 11: test your knowledge
8.00 pm	Closure

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PROGRAM (DAY 4) - THURSDAY

2.00 pm	Congenital coronary anomalies
2.30 pm	Case session 12: Congenital coronary anomalies
4.00 pm	BREAK
4.30 pm	FFR-CT Based on AI
5.00 pm	Case session 13: Ischemia cases
6.00 pm	Case session 14: Interactive quiz session
6.30 pm	Congenital cardiomyopathies
7.00 pm	Case session 15: test your knowledge
8.00 pm	Closure

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PROGRAM (DAY 5) – FRIDAY

2.00 pm	Aortic Pathology and Acute aortic syndrome
2.30 pm	Case session 16: Miscellaneous (Including Spectral CT cases –PHILIPS)
4.00 pm	BREAK
4.30 pm	FINAL TEST
5.00 pm	Case session 17: Other cardiac pathologies – extra-cardiac findings
6.30 pm	Case session 18: Interactive quiz session
7.00 pm	Case session 19: test your knowledge
8.00 pm	Closure

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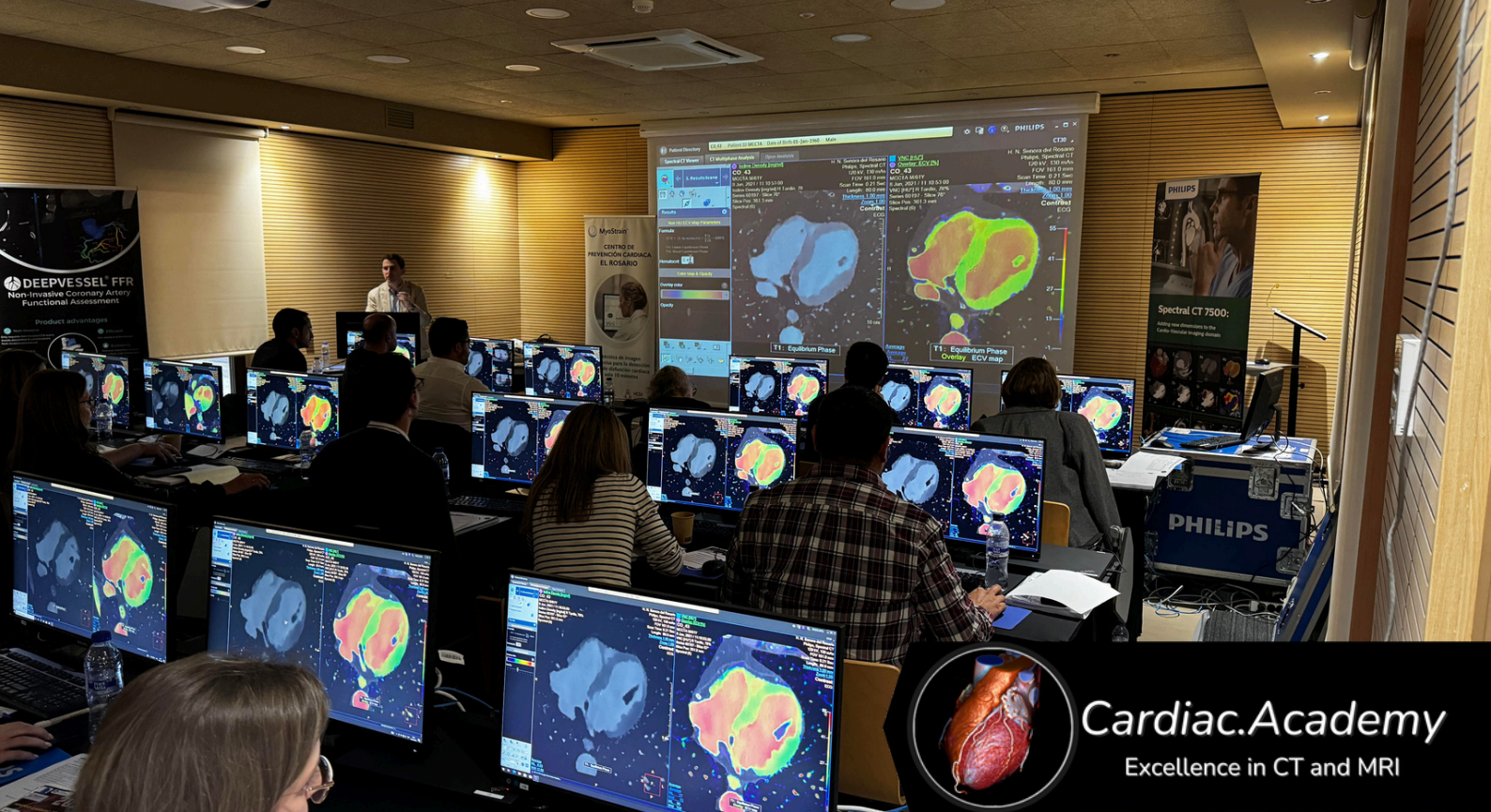
SPONSORS



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COLLABORATORS





SOME OF ESC - EACVI GUIDELINES - CONSENSUS

- <https://www.escardio.org/Education/Career-Development/Certification/Cardiac-Computed-Tomography>
- Pontone G, Rossi A, Guglielmo M, Dweck MR, Gaemperli O, Nieman K, et al. Erratum: Clinical applications of cardiac computed tomography: a consensus paper of the European Association of Cardiovascular Imaging – part I (European Heart Journal – Cardiovascular Imaging (2022) 23:3 (299-314) DOI: 10.1093/ehjci/jeab293). Eur Heart J Cardiovasc Imaging. 2022;23(6):E274.
- Pontone G, Rossi A, Guglielmo M, Dweck MR, Gaemperli O, Nieman K, et al. Clinical applications of cardiac computed tomography: a consensus paper of the European Association of Cardiovascular Imaging – part II. Eur Heart J Cardiovasc Imaging. 2022;23(4):E136–61.
- Neumann FJ, Sechtem U, Banning AP, Bonaros N, Bueno H, Bugiardini R, et al. 2019 ESC Guidelines for the diagnosis and management of chronic coronary syndromes. Eur Heart J. 2020;41(3):407–77.
- Byrne RA, Rossello X, Coughlan JJ, Barbato E, Berry C, et al. 2023 ESC Guidelines for the management of acute coronary syndromes. Eur Heart J. 2023;3720–826.
- Edvardsen T, Asch FM, Davidson B, Delgado V, DeMaria A, Dilsizian V, et al. Non-Invasive Imaging in Coronary Syndromes: Recommendations of The European Association of Cardiovascular Imaging and the American Society of Echocardiography, in Collaboration with The American Society of Nuclear Cardiology, Society of Cardiovascular Computed Tomography, and Society for Cardiovascular Magnetic Resonance. J Cardiovasc Comput Tomogr. 2022;16(4):362–83.
- Gimelli A, Achenbach S, Buechel RR, Edvardsen T, Francone M, Gaemperli O, et al. Strategies for radiation dose reduction in nuclear cardiology and cardiac computed tomography imaging: A report from the European Association of Cardiovascular Imaging (EACVI), the Cardiovascular Committee of European Association of Nuclear Medicine (EANM), and the European Society of Cardiovascular Radiology (ESCR). Eur Heart J. 2018;39(4):286–94.

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