

MADRID ACCIS – 2023

Acute Cardiac Care, Interventions & Support



June 14 - 16, 2023


Madrid, Spain

Hotel Melia Avenida de América

C. de Juan Ignacio Luca de Tena, 36, 28027 Madrid



Ilustre Colegio
Oficial de Médicos
de Madrid



CATHETER INTERVENTIONS CRITICAL CARE AND CIRCULATORY SUPPORT IN HEART CONDITIONS CAUSING ADVANCED HEART OR CARDIOGENIC SHOCK

Advanced heart failure, cardiogenic shock, or the acute course of their causes may require the coordinated, rapid, and accurate application of critical care, mechanical circulatory support, and mechanical or electrical interventions. All of this is done with the aid of imaging.

The ACCIS course has been created to review and discuss the latest controversies and advances in this field, bringing together all stakeholders annually.

WHO SHOULD ATTEND?

This course is aimed at all healthcare professionals specialized in or interested in the medical management and care of acute or advanced cardiovascular failure, or the application of mechanical or electrical support measures in this scenario, or the use of imaging techniques in critically ill patients, or the performance of surgical or percutaneous interventions in this context.

ACCIS will also provide opportunities for other professionals interested in the field to learn from and network with health workers.



GENERAL INFORMATION

MEETING VENUE

Hotel Meliá Avenida de América
C. de Juan Ignacio Luca de Tena, 36, 28027 Madrid

DATE

June 14th - 16th, 2023

OFFICIAL LANGUAGES

Spanish and English

TECHNICAL SECRETARIAT

Fundación para la Innovación en Biomedicina (FIBMED)
C/ Velázquez 25 2º A, 28001 Madrid

accismadrid@fibmed.org

www.ACCISmadrid.org

ORGANIZATION

DIRECTION

Ignacio Amat Santos (Valladolid, Spain)
Jaime Elízaga (Madrid, Spain)
Francisco Fernández-Avilés (Madrid, Spain)
Alberto San Román (Valladolid, Spain)

CO-DIRECTION AND SCIENTIFIC COMMITTEE

Circulatory Support & Acute cardiac intervention	Imaging & Acute cardiac interventions	Cardiogenic shock & coronary interventions	Cardiac interventions in acute Aortic Failure	Cardiac interventions in acute mitral failure	Interventions & circulatory support in acute/advanced right heart failure
Albert Ariza (Barcelona, Spain) Jose M ^o de la Torre (Santander, Spain) Alexander Stepanenko (Valladolid, Spain)	Javier Bermejo (Madrid, Spain) Marta Sitges (Barcelona, Spain) Dolores Mesa Rubio (Córdoba, Spain)	José F. Díaz (Sevilla, Spain) Manuel Martínez-Sellés (Madrid, Spain) Beatriz Vaquerizo (Barcelona, Spain)	Cesar Moris de la Tassa (Oviedo, Spain) Manuel Anguita (Córdoba, Spain) Ramiro Trillo (Santiago, Spain)	Ignacio Cruz (Salamanca, Spain) Jose M ^o Hernández (Málaga, Spain) Javier López (Valladolid, Spain)	Pilar Escribano (Madrid, Spain) Jordi Riera (Barcelona, Spain) Ángel Sánchez-Recalde (Madrid, Spain)

NURSE COORDINATION

Belén Rodriguez (Hospital Clínico Universitario, Valladolid)
M^o Ángeles Palma (Hospital General Universitario Gregorio Marañón, Madrid)

ORGANIZATION OF COMPETITIVE CASE PRESENTATION

“GRUPO JÓVENES CARDIÓLOGOS SEC”, Spanish Society of Cardiology

Pablo Díez Villanueva

FACULTY

International Guests and main representatives of Spanish groups involved in the field (Interventional Cardiology, Acute Cardiac Care and Heart Failure, Cardiac Imaging, Cardiac Surgery, Nursing, etc..)

THURSDAY
15th June, 2023

SCIENTIFIC PROGRAM

08:30

On-site Registration

8.30 – 8.45

MAIN ARENA

Opening

Ignacio Amat
Jaime Elízaga
Francisco Fdez-Avilés
Alberto San Roman

MAIN ARENA

8.45 – 9:15

Opening Keynote Lecture

Revascularization for patients with severe LV dysfunction: making sense of STICH and REVIVED.

Bernard Gersh
(Rochester, USA)

Chair:
Francisco Fdez-Avilés

SCIENTIFIC PROGRAM

MAIN ARENA

9:15 – 10,35

Plenary Session I

Cardiogenic Shock: current general approach and trending topics

9.15 – 9.25

CASE #1 Presentation

Marta Marcos Mangas

Chairs:

Albert Ariza
(Barcelona, Spain)

9.25 – 9.40

The Spanish Multidisciplinary Cardiogenic Shock Initiative. First and next steps.

Manuel Martínez-Sellés

Jose M^a de la Torre
(Santander, Spain)

9.40 – 9.55

Networking approach to cardiogenic shock. Role of "mobile" circulatory support.

Alexander Stepanenko

Alexander
Stepanenko
(Valladolid, Spain)

9.55 - 10.10

Case #1 Pre-outcome Discussion

Members of the panel
Audience
Chairs to activate

Panel :

Javier Tobar
(Valladolid, Spain)
Teresa López Sobrino
(Barcelona, Spain)

10.10 – 10.20

Case #1 Outcome

Marta Marcos Mangas

Adrián Cid
(Salamanca, Spain)

10.20 – 10.30

Case #1 Post-outcome Discussion

Members of the panel
Audience
Chairs to activate

Case presenter:

Marta Marcos
Mangas
(Barcelona, Spain)

10.30 – 10.35

Session, I Closing remarks

Chairs

Experts:

Manuel Martínez-
Selles
(Madrid, Spain)

10.35 – 11.00

Coffee Break

Alexander
Stepanenko
(Valladolid, Spain)

Learning objectives:

Provide knowledge and expert opinion on:

- The method, advantages, and barriers of multidisciplinary regional network protocols for addressing cardiogenic shock.
- The existing evidence, organization, conditions, advantages, and limitations of remote mobilization of resources and professionals for "rescue" mechanical assistance and the transfer of patients with cardiogenic shock.

SCIENTIFIC PROGRAM

MAIN ARENA

11.00 – 12.20

Plenary Session II

Ischemic cardiogenic shock: new tools, new decisions

11.00 – 11.10

CASE #2 Presentation

Aitor Uribarri

Chairs:

José F. Díaz
(Sevilla, Spain)

11.10 – 11.25

Revascularization in infarct-related cardiogenic shock. When and how? Role of circulatory support

Giuseppe Tarantini

Manuel Martínez-Sellés
(Madrid, Spain)

11.25 – 11.40

Management of postinfarction ventricular septal defect in the era of circulatory support. Any change?

Albert Ariza-Solé

Panel :

Alessandro Sionis
(Barcelona, Spain)

11.40 – 11.55

Case #2 Pre-outcome Discussion

Members of the panel
Audience
Chairs

Raúl Moreno
(Madrid, Spain)

Luis Martín-Villén
(Sevilla, Spain)

11.55 – 12.05

Case #2 Outcome

Aitor Uribarri

Case presenter:

Aitor Uribarri
(Valladolid, Spain)

12.05 – 12.15

Case #2 Post-outcome Discussion

Members of the panel
Audience
Chairs

Experts:

Giuseppe Tarantini
(Padua, Italy)

12.15 – 12.20

Session II Closing remarks

Chairs

Albert Ariza
(Barcelona, Spain)

Learning objectives :

Provide knowledge and expert opinion on:

- The timing and strategy of coronary revascularization in post-infarction cardiogenic shock, and the role of mechanical cardiac assistance.
- The prevalence, profile, prognosis, and management of post-infarction ventricular septal defect in the era of reperfusion and mechanical circulatory support.

SCIENTIFIC PROGRAM

MAIN ARENA

12.30 – 14.00

Plenary Session III

Aortic valve dysfunction inducing shock New paradigms beyond evidence

12.30 – 12.40

CASE #3 Presentation

Eduardo Zatarain and Patricia Muñoz

Chairs:

Cesar Moris de la Tassa
(Oviedo, Spain)

12.40 – 12.55

Role of imaging in emergent TAVI. Any alternative to Cardiac CT?

Marco Barbanti

Manuel Anguita
(Córdoba, Spain)

Ramiro Trillo
(Santiago de
Compostela, Spain)

12.55 – 13.10

Aortic valve endocarditis causing shock. Is TAVI always unacceptable?

Ignacio Amat

Panel :

Soledad Ojeda Pineda
(Córdoba, Spain)

13.10 – 13.25

Case #3 Pre-outcome Discussion

Members of the panel
Audience
Chairs

Isidre Vilacosta
(Madrid, Spain)

José María García
Acuña
(Santiago de
Compostela)

13.25 – 13.35

Case #3 Outcome

Eduardo Zatarain and Patricia Muñoz

13.35 – 13.45

Case #3 Post-outcome Discussion

Members of the panel
Audience
Chairs

Case presenters:
Eduardo Zatarain
(Madrid, Spain)

Patricia Muñoz
(Madrid, Spain)

13.45 – 13.55

Session III closing remarks

Chairs

Experts:

Marco Barbanti
(Catania, Italy)

Ignacio Amat
(Valladolid, Spain)

Learning objectives :

To provide knowledge and insights on:

- The significance of imaging in emergent TAVI (Transcatheter Aortic Valve Implantation), including the accurate and rapid assessment using CT scan and potentially utilizing other readily available imaging modalities in this setting.
- The challenges or opportunities posed by TAVI in the context of aortic valve infection with severe valve and hemodynamic dysfunction.

SCIENTIFIC PROGRAM

MAIN ARENA

14.00 – 15.00

SPECIAL SESSION Addressing aortic valve dysfunction causing shock in the TAVI-era

Satellite Symposium
Sponsored by Medtronic

Lectures:

14.00 – 14.15

TAVI in cardiogenic shock. Current status, trends and needs.
Eric Van Belle

Chairs:

Manuel Pan
(Córdoba, Spain)

Alejandro Sionis
(Barcelona, Spain)

14.15 – 14.30

Severity of aortic valve dysfunction in cardiogenic shock. Always clear?
Javier Bermejo

Panel :

Miguel Antonio Solla
(A Coruña, Spain)

Martín Villén
(Sevilla, Spain)

14.30 – 14.45

TAVI and mechanical support in cardiogenic shock. Synergies and proposals.
Giuseppe Tarantini

Felipe Diez del Hoyo
(Madrid, Spain)

14.45 – 15.00

Discussion

Ponentes:

Eric Van Belle
(Lille, Francia)

Javier Bermejo
(Madrid, España)

15.00 – 15.45

Lunch break

Giuseppe Tarantini
(Padua, Italia)

Learning objectives:

To provide knowledge and expert opinion on:

- TAVI procedure compared to other alternatives in the context of severe aortic valve dysfunction causing severe congestion or hemodynamic collapse.
- How to address the challenges of evaluating the severity of valve dysfunction in this context.
- The utility and method of mechanical support associated with TAVI in the presence or risk of hemodynamic collapse.

PROGRAMA CIENTIFICO

Exhibition Area

15.00 – 15.45

Break – Lunch

Sala Salamanca – Floor 1

15.00 – 15.45

Spanish “Shock Code” Group

Working Lunch

SCIENTIFIC PROGRAM

MAIN ARENA

8.30 – 10.00

Plenary Session IV

Mitral valve dysfunction in the acute or advanced setting. How to proceed

8.30 – 8.40

CASE #1 Presentation

Pedro Martin

Chairs:

Ignacio Cruz
(Salamanca, Spain)

8.40 – 8.55

Edge-to-edge mitral repair in cardiogenic shock.

Facts and advices,
Mohamad Alkhouli

Javier Lopez
(Valladolid, Spain)

José M^o Hernández
(Málaga, Spain)

8.55 – 9.15

Percutaneous mitral repair in advanced heart failure. When COAPT is really COAPT?

Marta Sitges

Panel :

Mohamad Alkhouli
(Rochester, USA)

9.10 – 9.25

Case #4 Pre-outcome Discussion

Members of the panel
Audience
Chairs

Marta Sitges
(Barcelona, Spain)

María Plaza
(Madrid, Spain)

9.25 – 9.35

Case #4 Outcome

Pedro Martin

Case presenter:

Pedro Martin
(Las Palmas de Gran Canaria)

9.35 – 9.45

Case #4 Post-outcome Discussion

Members of the panel
Audience
Chairs

Experts:

Mohamad Alkhouli
(Rochester, USA)

9.45 – 9.55

Session IV Closing remarks

Chairs

Marta Sitges
(Barcelona, Spain)

9.55 – 10.30

Coffee break

Learning objectives:

To provide knowledge and insights on:

- The efficacy of catheter-based repair in cardiogenic shock due to severe mitral regurgitation, including candidate selection and optimal timing for intervention.
- The differentiation between proportionate and disproportionate mitral regurgitation, along with the subsequent decision-making process, in the context of advanced heart failure or shock.

SCIENTIFIC PROGRAM

MAIN ARENA

10.30 – 12.00

Plenary Session V

Acute severe right heart failure: let's focus on pulmonary embolism first

10.30 – 10.40

CASE #5 Presentation

Pablo Salinas

Chairs:

Pilar Escribano
(Madrid, España)

10.40 – 10.55

Data and lessons from the FLASH project. Is the paradigm of severe PE management changing?

Catalin Toma

Jordi Riera
(Barcelona, España)

10.55 – 11.10

Multidisciplinary regional approach to pulmonary embolism. The Madrid Initiative

David Jimenez

Ángel Sánchez-
Recalde
(Madrid, España)

11.10 – 11.25

Case #5 Pre-outcome Discussion

Members of the panel
Audience
Chairs

Panel :

Sonia Jiménez
(Barcelona, Spain)
Luis Jara Palomares
(Sevilla, Spain)

11.25 – 11.35

Case #5 Outcome

Pablo Salinas

Eduard Argudo
(Barcelona, Spain)

11.35 – 11.45

Case #5 Post-outcome Discussion

Members of the panel
Audience
Chairs to activate

Case presenter:

Pablo Salinas
(Madrid, Spain)

11.45 11.55

Session V closing remarks

Chairs

Experts:

Catalin Toma
(Pittsburg, USA)
David Jimenez
(Madrid, Spain)

Learning objectives

To provide knowledge and expert opinion on:

- The significance of circulatory/respiratory support and new thrombectomy techniques in the current and future management of severe acute pulmonary embolism.
- The method organization of regional, multidisciplinary multicenter networks for the management of pulmonary embolism.

SCIENTIFIC PROGRAM

AUDITORIO

12.00 – 12.40

CLINICAL CASE COMPETITION

COMPETITIVE PRESENTATION AND DISCUSSION OF THE THREE FINALIST CASES

Organized by the
"Grupo de Jóvenes Cardiólogos"
Spanish Society of Cardiology

**Secret deliberation of the Jury
after the presentation and the
discussion of the finalist cases**

Chairs:

Pablo Díez-Villanueva
(Madrid, Spain)

José María de la Torre
(Santander, Spain)

Members of the Jury:

Violeta González
(Santiago de Compostela,
Spain)

Felipe Díez del Hoyo
(Madrid, Spain)

María Monteagudo
(Madrid, Spain)

Pablo Díez-Villanueva
(President of the Jury)
(Madrid, Spain)

SCIENTIFIC PROGRAM

MAIN ARENA

12.45 – 14.00

SPECIAL SESSION

12.45 – 13.00

Mitral valve dysfunction causing or precipitating shock. New paradigms beyond guidelines

Satellite Symposium Sponsored by Abbott

Chairs:

Manuel Anguita
(Córdoba, España)

Ramiro Trillo
(Santiago, Spain)

Lectures:

13.00 – 13.15

Advanced multimodal imaging in acute mitral regurgitation. Role and limitations.

Marta Sitges

Panel:

Ana Serrador Frutos
(Valladolid, Spain)

Francisco J. Hernández-
Pérez
(Madrid, Spain)

13.15 – 13.30

Mitral regurgitation causing shock. When surgical repair is the best option?

Ángel González Pinto

Marta Alonso Fernández
de Gatta
(Salamanca, Spain)

13.30 – 13.45

Catheter-based repair in acute mitral regurgitation. How select and proceed.

Rodrigo Estevez-Loureiro

Speakers:

Marta Sitges
(Barcelona, Spain)

Ángel González Pinto
(Madrid, Spain)

13.45 – 14.00

Discussion

Rodrigo Estevez-Loureiro
(Vigo, Spain)

Learning objectives:

To provide knowledge and expert opinion on the approach to the complexity and challenges of hemodynamically severe mitral insufficiency by:

- Understanding the value and limitations of characterizing it through imaging techniques.
- Selecting patients who are candidates for percutaneous or surgical valve repair.
- Exploring emerging approaches and techniques applicable in this scenario, considering the specific patient profile and available resources or expertise.

SCIENTIFIC PROGRAM

MAIN ARENA

14.00 – 14.20

AWARDS GIVING CEREMONY FOR THE WINNERS OF THE BEST-CASE COMPETITION

Chairs:

Pablo Díez-Villanueva
(Madrid, Spain)

José María de la Torre
(Santander, Spain)

Members of the Jury:

Violeta González
(Santiago de Compostela,
Spain)

Felipe Díez del Hoyo
(Madrid, Spain)

María Monteagudo
(Madrid, Spain)

Pablo Díez-Villanueva
(President of the Jury)
(Madrid, Spain)

MAIN ARENA

14.20 – 14.30

FAREWELL

DEDICATED WORKSHOPS PHYSICIANS (AGENDA & SET UP)

WEDNESDAY 14th
June, 2023
and
THURSDAY
15th June, 2023

TRAINING ROOM: LAS PALMAS 2

Training Session

Slot 1: Wednesday 14th June, 16.00 – 17.30

Slot 2: Thursday 15th June, 16.00 – 17.30

Limit of Participants: 25

Trans-Esophageal echo for interventionalists and critical care: The basics and musts to know

Chairs:

Ana González Mansilla, Dolores Mesa

Training Faculty:

Teresa Mombiola

Bárbara Vidal

Enric Cascos

Goals:

- To provide a global overview of trans-esophageal echocardiography for non-imaging specialists.
- To understand the indications and settle the bases for adequate study interpretation of TEE anatomical and functional findings, specifically targeted to interventional and critical cardiologists.

WEDNESDAY 14th
June, 2023
and
THURSDAY
15th June, 2023

DEDICATED WORKSHOPS PHYSICIANS (AGENDA & SET UP)

TRAINING ROOM :

Training Session

Slot 1: Wednesday, 14th June, 16.30 - 18.30

Slot 2: Thursday 15th June, 15.30 - 18.00

Limit of participants: 8 in each slot

ECPR/V-A ECMO Training Station

Chairs:

Jordi Riera

Training Faculty:

Eduard Argudo

María Martínez-Martínez

Aitor Uribarri

ECMO Specialist Support:

Jordi Gómez

Aina Solsona

Simulator practitioners:

All attendees

Goals:

- Indicate ECPR.
- Select adequate cannulation configuration.
- Cannulate at the cathlab and start V-A ECMO support.
- Adjust V-A ECMO settings.
- Prevent, diagnose and treat specific complications of V-A ECMO support.
- Wean vs withdraw vs change to EISOR.

DEDICATED WORKSHOPS PHYSICIANS (AGENDA & SET UP)

WEDNESDAY 14th
June, 2023
and
THURSDAY
15th June, 2023

TRAINING ROOM: LAS PALMAS 1

Slot 1: Wednesday 14th June, - 17:30 - 18:30

Slot 2: Thursday 15th June, - 18:30 - 19:30

Limit of Participants: 10 participants

CT-based anatomy for aortic valve intervention. 3Mensio made easy

Chairs:

Jaime Elízaga



Training Faculty:

Maria Tamargo

Technical Support:

Guillem Rubio

Goals:

- To understand the relationship between the anatomical components of the aortic valve complex and surrounding structures
- To introduce participants to the basic features and functions of 3Mensio software (user interface, data input methods, and analysis tools)
- To provide hands-on training in the use of 3Mensio for common medical imaging tasks (segmentation, visualization, and measurement of anatomical structures)
- To teach participants how to create and manipulate 3D models of medical images using 3Mensio for different purposes, such as intervention planning.

WEDNESDAY 14th
June, 2023
and
THURSDAY
15th June, 2023

DEDICATED WORKSHOPS PHYSICIANS (AGENDA & SET UP)

TRAINING ROOM: **LAS PALMAS 2**

Training Session

Slot 1: Wednesday 14th June, 17:30 – 19:00

Slot 2: Thursday 15th June, 17:30 – 19:00

Limit of participants: 25

Anatomy, imaging and simulation for catheter mitral valve intervention.

Chairs:

Dolores Mesa, Manuel Pan



Training Faculty:

Ángel Gonzalez Pinto

Javier Bermejo

Isaac Pascual

Technical Support

Paolo Romitelli

Javier Crespo

M^a Eugenia Fernández Santos

Simulator practitioners

All attendees

Goals:

- To enhance the participants' understanding of the anatomy of the mitral valve and its surrounding structures, including the left atrium and ventricle.
- To improve the participants' ability to interpret imaging modalities commonly used in catheter mitral valve intervention.
- To provide participants with hands-on experience in using simulation tools to plan and execute catheter-based interventions for mitral valve disease.
- To facilitate collaboration and knowledge-sharing among participants, with the goal of improving patient care and outcomes in the field of mitral valve intervention.

DEDICATED WORKSHOPS PHYSICIANS (AGENDA & SET UP)

WEDNESDAY 14th
June, 2023
and
THURSDAY
15th June, 2023

TRAINING ROOM : LAS PALMAS 1

Training Session

Slot 1: Wednesday, 14th June, 18.00 - 19.00

Slot 2: Thursday 15th June, 16.00 - 17.00

Limit of participants: 15

Dealing with the vascular access. Ultrasound-guided puncture.

Chairs:

Enrique Gutierrez

Training Faculty:

María Eugenia Vázquez

Jorge García-Carreño

Technical Support

Mike Huanca

Simulator practitioners

All attendees

Goals:

- To provide participants with a comprehensive understanding of ultrasound-guided puncture for vascular access.
- To familiarize participants with the basic principles of ultrasound imaging and its applications in vascular access procedures.
- To teach participants how to identify appropriate vascular access sites using ultrasound guidance.
- To provide participants with hands-on practice using ultrasound-guided puncture techniques for vascular access.
- To equip participants with the knowledge and skills necessary to integrate ultrasound-guided puncture into their clinical practice.

WEDNESDAY
14th June, 2023

DEDICATED WORKSHOPS NURSES

TRAINING ROOM TENERIFE 2

16:00 - 16:30	<p>Cardiogenic Shock</p> <p>Miguel Bernardino Santos, HGU Gregorio Marañón Irene Bonilla Cuenda, Irene Alcoceba Herrero, HCU Valladolid</p>
16:30 - 17:30	<p>Workshops: Nursing Techniques</p> <p>1. Individualized radial compression: Drop test. Balbina Alonso Mate, Cristina Álvarez Martínez, HGU Gregorio Marañón</p> <p>2. Peripheral vein insertion for pacemaker in TAVI procedures.</p> <p>2. Endocardial biopsy right catheterization. Susana Rodríguez Mace, M^a Colleen Maraver, Teresa Valero Martínez, HGU Gregorio Marañón</p> <p>4. Nursing care in Cardiac Tx. Denisse Pamela Jaya Morocho, HCU de Valladolid</p>
17:00 - 18:30	<p>Humanization for healthcare professionals</p> <p>Manuela Rodríguez Ramos, Margarita Zamora Sanz, Alejandro Carta Bergaz, HGU Gregorio Marañón</p>

THURSDAY
15th June, 2023

DEDICATED WORKSHOPS NURSES

TRAINING ROOM TENERIFE 2

TAVI

TAVI Case study

Nerea González Díez, HGU de Valladolid

TAVI NURSE

Elena Calvo Barriuso, Barcelona, Miryam González
Cebrián, Salamanca

16:00 - 17:30

Robotics in Hemodynamic Nursing

Manuela Rodriguez Ramos, Susana Beatriz Martinez Vila,
HGU Gregorio Marañón

17:30 - 18:30

PET thrombectomy. Flowtriever Technique

Jessica Sandoval Ruiperez, Melody Vazquez Suarez,
Carmen Seco Ruiz, HGU Gregorio Marañón

18:30 - 19:00

ECMO

Lorena Cabrero Sánchez, Irene Sánchez Alonso, HCU
Valladolid

19:00 - 19:45

Terapia CARL

Yolanda de la Fuente Jambrina, , HCU Valladolid

ACCREDITATION



EACCME

European Accreditation Council for Continuing
Medical Education



Comisión de Formación Continuada de las
Profesiones Sanitarias de la Comunidad de Madrid
Sistema Nacional de Salud



Programa de acreditación de actividades
de formación continuada.
Actividad acreditada con **9 créditos** por la
Sociedad Española de Cardiología.



ORGANIZATION

TECHNICAL SECRETARIAT

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