Acute Cardiovascular Care Association

Acute Cardiovascular Care School 2019

29-30 November

Barcelona, Spain

University of Barcelona

Endorsed by

SOCIEDAD ESPAÑOLA DE CARDIOLOGÍA

Sección de Cardiopatía Isquémica y Cuidados Agudos Cardiovasculares

ESC European Society of Cardiology

About the Acute Cardiovascular Care Association

The Acute Cardiovascular Care Association (ACCA) of the ESC represents the growing community of specialists involved in the process of managing acute cardiac diseases from the event itself to initial treatment and patient stabilisation. As such, it is the first and unique home for specialists from various disciplines, including amongst others, paramedics, emergency physicians, intensivists, cardiologists, nurses and interventionalists.

The association develops a comprehensive educational programme, including dedicated sessions at its annual congress, IACC textbook, a series of webinars, a core curriculum, the ESC e-learning platform and a certification programme.

The Acute Cardiovascular Care School

Two days of practical hands-on sessions aimed at gathering young doctors in the field of acute cardiovascular care to learn and train on current state of practice on how to best treat patients with acute cardiovascular diseases.

The school focuses on interactivity and practical training on the most important topics and problems encountered when working within the field of acute cardiovascular medicine. Its programme, designed and developed by the course directors, is unique and unprecedented.

Objectives

- Give participants the required theoretical knowledge and practical skills for their daily work in acute cardiovascular care.
- Create a network of healthcare professionals working in the same field
- Provide access to experts in the field

Participants' Preparation

Participants will be asked to review the existing literature: e-learning platform and the updated version of the *ESC Textbook of Intensive and Acute Cardiovascular Care* (IACC)

Programme Overview

The two-day course includes the following topics:

- Echo-guided vascular access
- ECMO Simulation
- Difficult airway
- Pulmonary echo
- Clinical Simulation Workshop
- Plenary session on "Out of hospital cardiac arrest management in 2019"
- Debrief session - open questions/ suggestions

There will be five groups of eight participants rotating through five modules and one plenary session.

Participants will receive a certificate on the practical skills obtained.

Venue

University of Barcelona, Campus Clínic, Simulation Laboratory.

Course Directors

- Prof. Alessandro Sionis
- Prof. Josep Maria Nicolas Arfelis

TIME TABLE

		Group				
		1	2	3	4	5
29 November	12:00 13:00	Welcome				
	13:00 15:00	**Simulation**	**Difficult Airways Management**	**Echo Guided Vascular Access**	**ECMO**	**Pulmonary Echo**
	15:00 17:00	**Pulmonary Echo**	**Simulation**	**Difficult Airways Management**	**Echo Guided Vascular Access**	**ECMO**
	17:00 17:30	Break				
	17:30 18:00	**Plenary session Out of hospital cardiac arrest management in 2019**				
	18:00 20:00	**ECMO**	**Pulmonary Echo**	**Simulation**	**Difficult Airways Management**	**Echo Guided Vascular Access**
	20:00	Departure to dinner				
30 November	08:30 10:30	**Echo Guided Vascular Access**	**ECMO**	**Pulmonary Echo**	**Simulation**	**Difficult Airways Management**
	10:30 11:00	Break				
	11:00 13:00	**Difficult Airways Management**	**Echo Guided Vascular Access**	**ECMO**	**Pulmonary Echo**	**Simulation**
	13:00 14:00	**Plenary open question (Lunch boxes)**				

- ICCU tour to be planned either early on Saturday morning 08:00 AM or after the lunch on Saturday
- Between 90 min to 2 hours / sessions

Acute Cardiovascular Care Association

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The unique worldwide organisation for acute cardiovascular care professionals

- Science
- Networking
- Education
- Career development

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www.escardio.org/acute-care-membership

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Echo-Guided Vascular Access

Faculty: Alessandro Sionis and Pablo Loma Osorio

Educational Objectives

- How to make a safer puncture.
- Indications of echo-guided vascular access with a special focus on central venous access.
- Integrating anatomical landmarks and echo imaging.
- Technical fundamentals.
- Understand the potential complications of vascular access cannulation and learn how to avoid them.
- The six-step strategy for successful vascular access cannulation.
- Hands-on internal jugular, subclavian and femoral vein access.

Learning Format

A short theoretical section on the general principles and techniques of echo-guided vascular access and a practical section:

- Short theoretical lecture
- Hands-on practice with two stations:
  - ❑ Jugular/subclavian
  - ❑ Femoral

Available Material

- Two anatomical central venous cannulation manikins (with ability to visualise the pulsatility of the artery) for ultrasound puncture with feedback (blue and red liquid inside simulated vein and artery)
- Central venous access material
- Two echo consoles with vascular linear probes

ECMO Simulation

Faculty: Albert Ariza, Santiago Montero and Alicia Pastor

Educational Objectives

We will explain the basics of the VA ECMO configurations, especially peripheral VA ECMO. Mainly, the learner will be able to see and understand the pathophysiology behind VA ECMO and cardiogenic shock and to acquire practical skills regarding the management of three typical scenarios / complications appearing under VA ECMO.

Learning Format

A high-fidelity, hands-on simulator allowing the attendant to participate actively and try different options and treatments. Their decisions will have direct effects on the simulated patient. As doing so, the effects of their right or wrong decisions will have a strong impact in their learning process. They will understand and get involved into a real-life situation.

Available Material

A high-fidelity VA ECMO simulator, in a real-life simulated ICU box, and on a high-fidelity ICU patient simulator. Thus, two simulators at the time.

Difficult airway

Faculty: Tobias Koller and Stefano Italiano

Educational Objectives

- Airway evaluation
- Understanding and integrating algorithms for the predicted and unpredicted difficult airway
- Focusing airway evaluation management on critically ill patient and ICU environment
- Strategies for successful tracheal intubation (including complementary accessories)
- Alternative devices for airway management

Learning Format

- Short theoretical instructions based on Power Point presentations;
- “Hands on”: Practice on airway manikins divided in three stations:
    - ventilation and Laryngeal Mask Airway (LMA) station;
    - standards tracheal intubation station;
    - difficult airway/special devices station.

Available Material

- One PC
- Three airway manikin

- Tracheal intubation:
    - different types of endotracheal tubes (standards, armored/reinforced endotracheal tube, calibre from 6 to 8.5; four of each type);
    - laryngoscopes: three standards with seven different blades (one Macintosh 2; two Macintosh 3; two x Macintosh 3; one Miller 1; one Miller 2);
    - video-laryngoscopes: four Airtraq® **and**, if available one McGRATH™ MAC Video Laryngoscope **or** one Glidescope ® **or** similar;
    - Stylet and bougie: three standards endotracheal tube stylet; two tracheal tube introducer (bougie); two tube exchanger.
- Ventilation: Four face masks (two-three different sizes) and three ambu bags.
- LMA:
    - Three classic LMA (one size 3, one size 4, one size 5);
    - Three second generation LMA – i.e. SUPREME ™ type (one size 3, one size 4, one size 5);
    - If available, one FASTRACK ™ device (with tube and tube introducer);
    - If available two LMA iGel® (one size 4, one size 5).
- Others: syringes (20 x 10 ml; 5 x 20 ml); lubricant; six peripheral venous catheters (two 18G; two 16G; two 14G); one percutaneous crycothyroidotomy set.

Pulmonary Echo

Faculty: Albert Duranc and Walter Bragagnini

Educational Objectives

- Understand the technical fundamentals of lung ultrasound
- Learn the main indications of lung ultrasound in cardiology
- Be able to perform lung ultrasound to diagnose lung congestion and pleural effusion

Learning Format

The course will consist of a short theoretical section on the general principles and a hands-on practical section.

Available Material

- Two portable ultrasound devices
- Two healthy models
- Two pathological phantoms for lung congestion and pleural effusion

Clinical Simulation

Faculty: Pablo Jorge and Jordi Baneras

Educational Objectives

- Acquire a comprehensive and systematic diagnostic approach managing cardiogenic shock.
- Reinforce the key elements treating post arrest cardiac syndrome.
- Face to a in ICCU cardiac arrest in an orderly manner.
- Encourage teamwork and efficient communication among colleagues

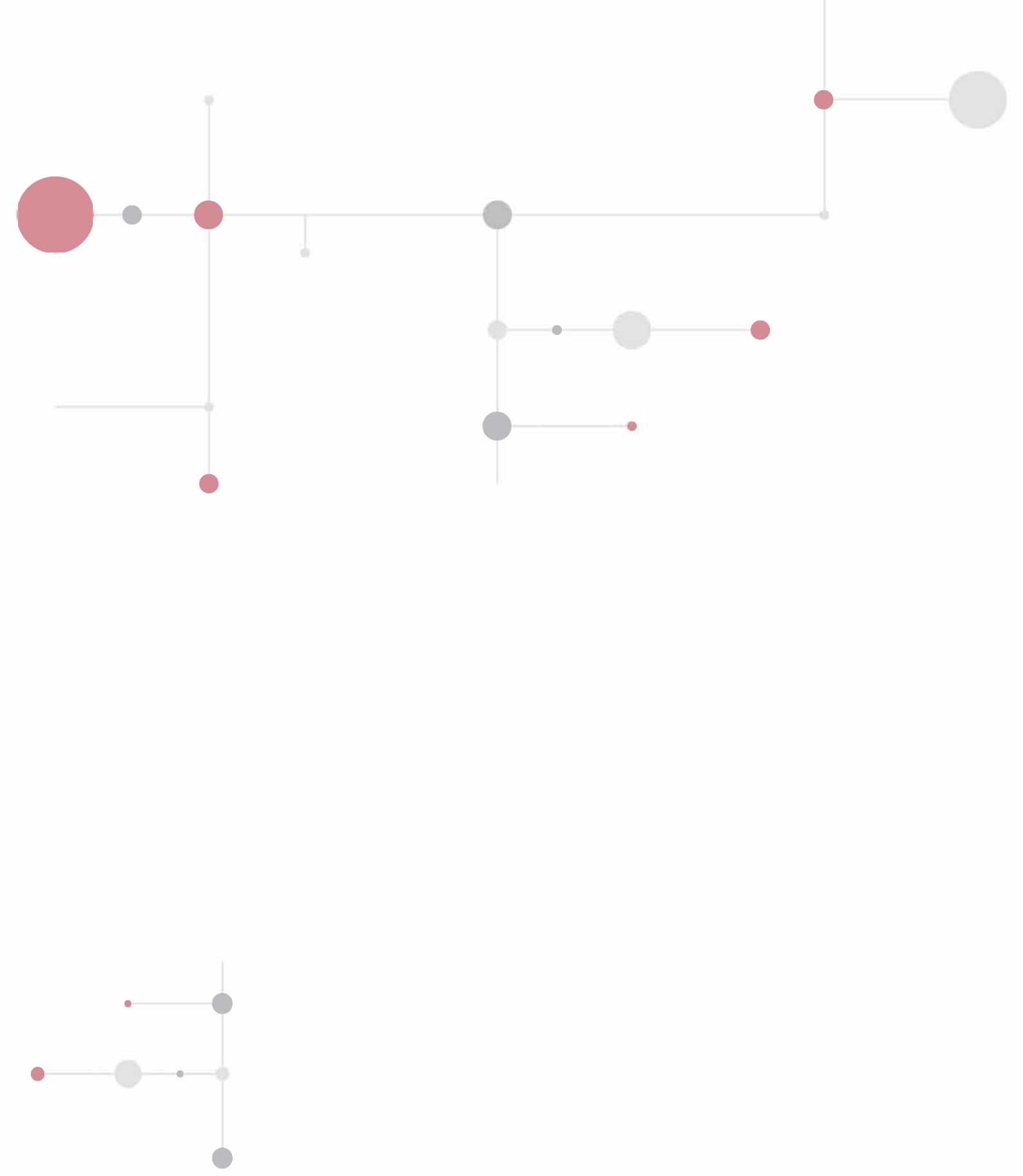
Learning Format

Hands-on clinical scenarios and debriefing sessions.

Available Material

- Clinical simulator
- Defibrillator
- Difficult airway material

NOTES



Acute Cardiovascular Care Association

Working with critically ill cardiac patients?

ACUTE CARDIOVASCULAR CARE2020

7-9 March 2020
Athens, Greece

This is your Congress

- All acute conditions discussed in one place
- Patient-centric approach
- Easy access to key opinion leaders

Key figures

- +1,000 participants from +70 countries
- +60 sessions & workshops
- 115 international expert faculty

Mark your calendar

- Call for science deadline: **11 October**
- Early registration fee deadline: **19 December**

www.escardio.org/acutecvd

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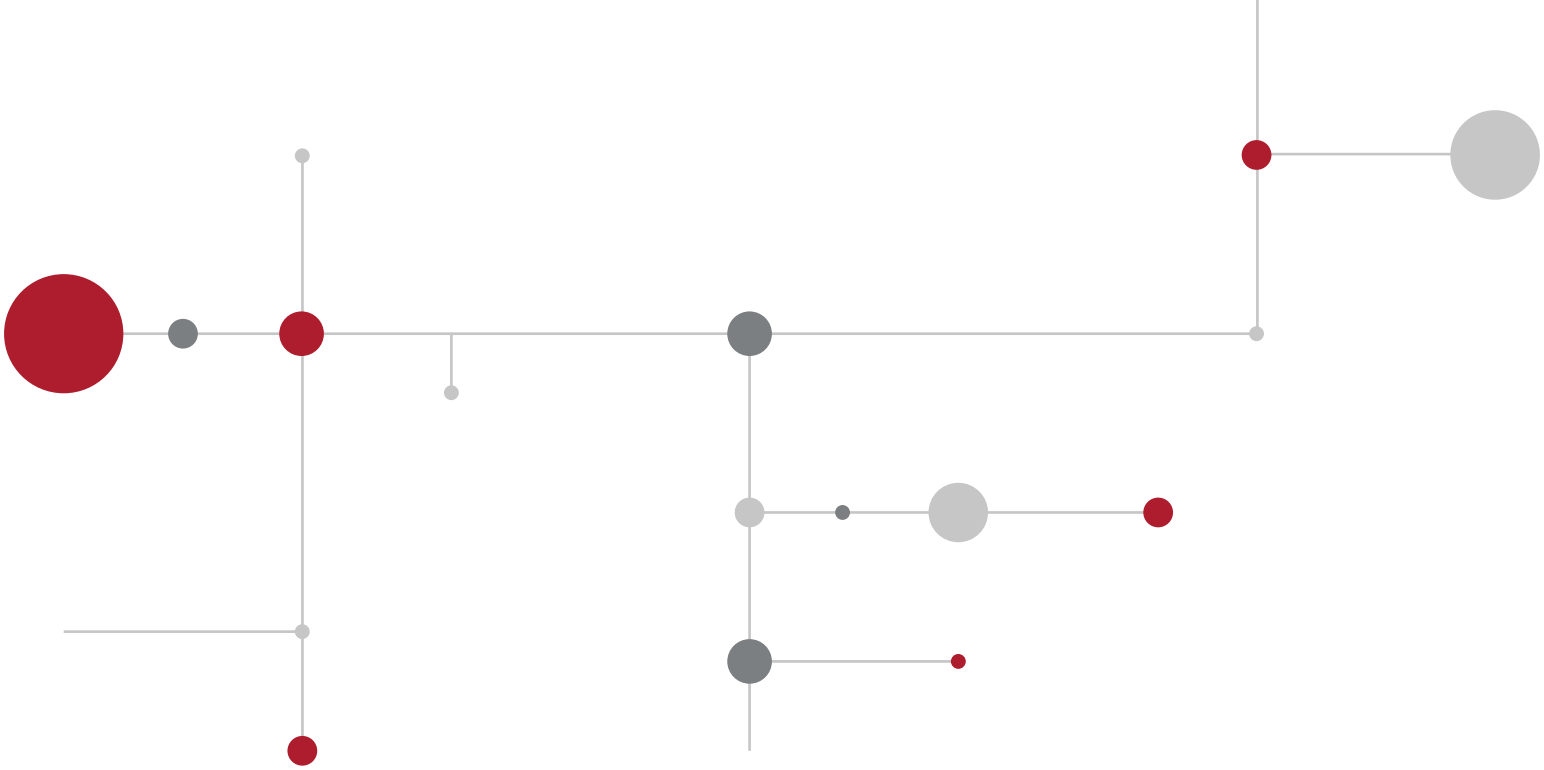

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