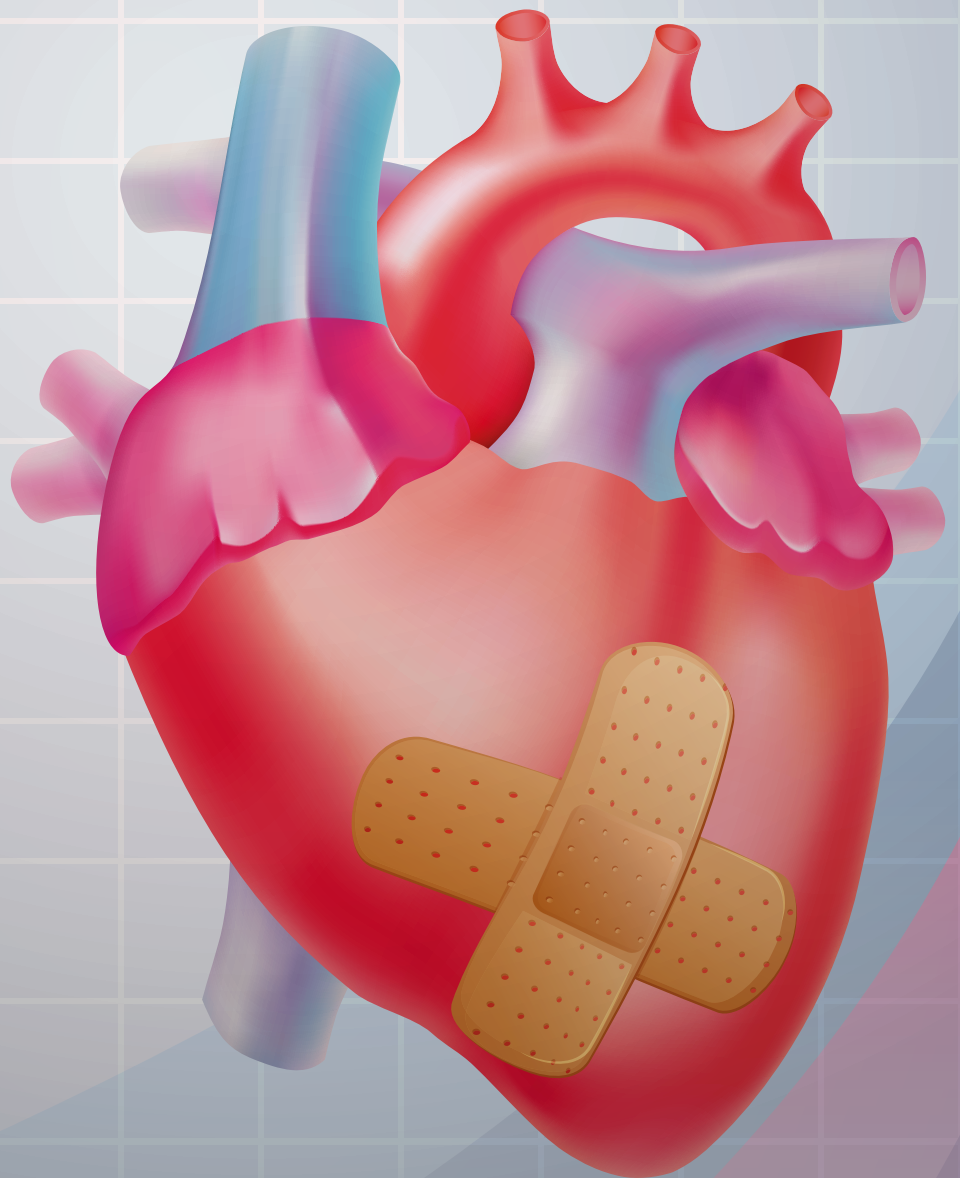


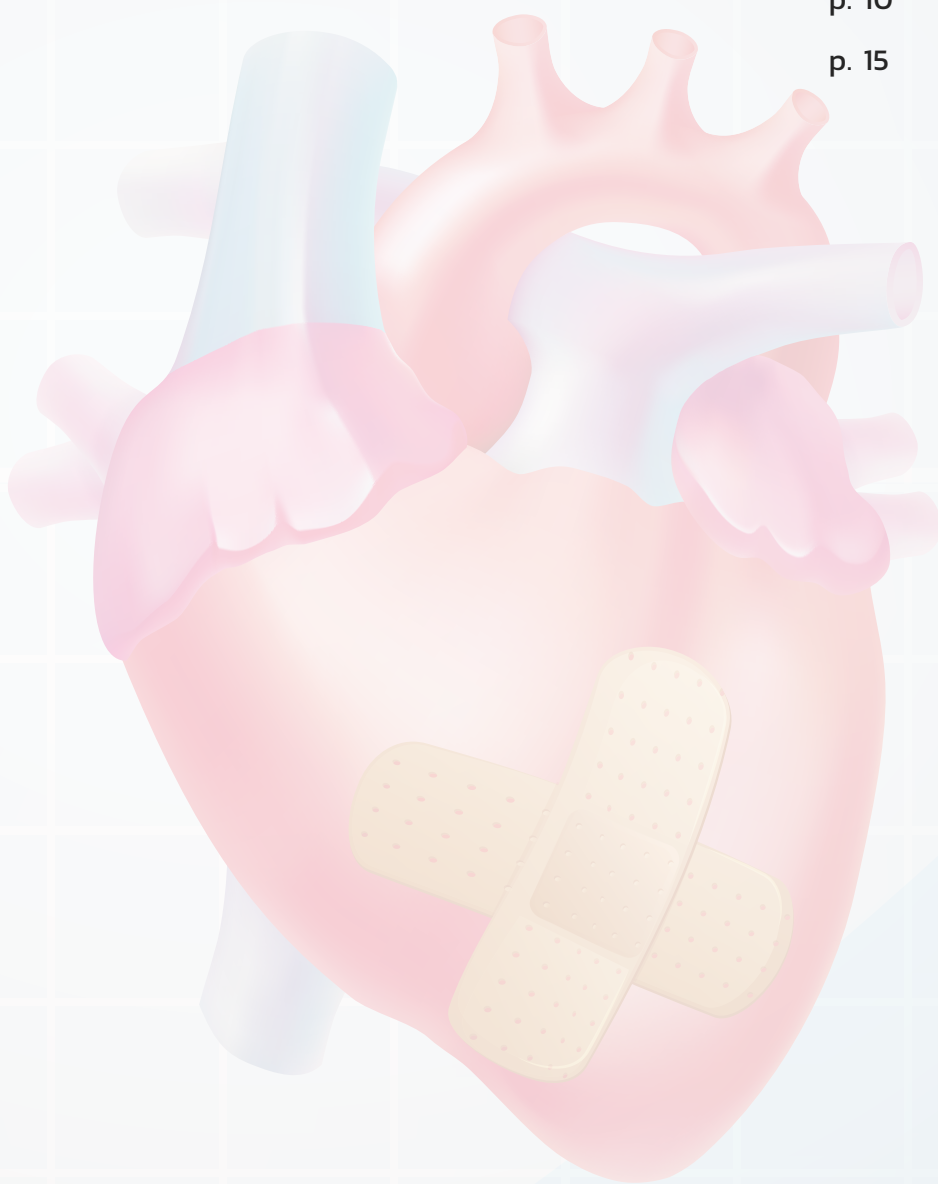
FINAL PROGRAM

**EACTAIC
ECMO-LVAD
MASTERCLASS**



INDEX

Welcome Letter	p. 3
Committees and Learning objectives	p. 4
General Information	p. 5
Floor Plan	p. 8
Faculty List	p. 9
Scientific Programme	p. 10
Sponsors	p. 15



WELCOME LETTER

Dear All,

We're delighted to welcome you to the **EACTAIC ECMO-LVAD Masterclass** organised by EACTAIC Education Committee in collaboration with the EACTAIC LVAD and Transplantation Subspeciality Committee and Onassis Cardiac Surgery Centre, Athens, Greece!

On behalf of the Organising Committee, we are excited about the opportunity to meet you, and looking forward to a happy and productive masterclass and stay at Athens.

The masterclass will start on **November 25, 2022**, and lasts through **November 26, 2022**, and will take place in **Buildings K8, K2, and K3** at the **Hellenic Pasteur Institute, Athens, Greece** [Vasilissis Sofias 127, Athina 115 21, Greece].

The European Association of Cardiothoracic and Vascular Anaesthesia and Intensive Care (EACTAIC) Masterclasses offers two days of full-immersion events on specific themes, designed to approach a small group of participants to maximise interaction between participants and key-note speakers and learning outcomes.

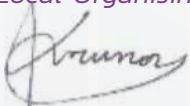
Its learning objectives are:

- Understand and interpret stages of end-stage heart failure/cardiogenic shock.
- Understand indications for short-term left ventricular assist devices.
- Review concepts, configurations and complications of extracorporeal membrane oxygenation.
- Indicate optimisation of patients scheduled for LVAD implantation.
- Understand perioperative complications of LVAD implantations, such as right ventricular failure.
- How to resuscitate patients with an LVAD.
- Understand future aspects in the treatment of end-stage heart failure.

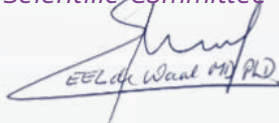
Once again, welcome to EACTAIC ECMO-LVAD Masterclass. Let's work together to make this the best EACTAIC masterclass ever!

On behalf of the Organizing Committee

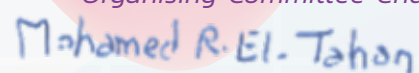
Theofani Antoniou, MD
Local Organising Committee Chair



Eric de Waal, MD, PhD
Scientific Committee Chair



Mohamed R. El Tahan, MD
Organising Committee Chair



COMMITTEES

Chair of the Organising Committee: **Mohamed R. el Tahan**, MD,
Cardiac anesthesiologist, Mansoura University, Mansoura, Egypt,
Imam Abdulrahman Bin Faisal University, Dammam, Saudi Arabia

Chair of the Scientific Committee: **Eric E.C. de Waal**, MD, PhD,
Cardiac anesthesiologist, University Medical Center Utrecht, Netherlands,
Chair of the VAD and Transplantation Committee.

Chair of the Local Organising Committee: **Theofani Antoniou**,
Cardiac anesthesiologist, Director of Medical Services,
Chair Anaesthesiology Department, Onassis Cardiac Surgery Center,
Athens, Greece. Head of Department and Programmes Director of
EACTAIC Adults and Paediatric Fellowships at the OCSC.

ORGANIZING COMMITTEE

Theofani Antoniou
Alexandra Briassouli
Eric E.C. de Waal
Stavros Dimopoulos
Mohamed R. El Tahan
Antigoni Koliopoulou
Nandor Marczin

LEARNING OBJECTIVES

- Understand and interpret stages of end-stage heart failure/cardiogenic shock.
- Understand indications for short-term left ventricular assist devices.
- Review concepts, configurations and complications of extracorporeal membrane oxygenation.
- Indicate optimisation of patients scheduled for LVAD implantation.
- Understand perioperative complications of LVAD implantations, such as right ventricular failure.
- How to resuscitate patients with an LVAD.
- Understand future aspects in the treatment of end-stage heart failure.

GENERAL INFORMATION

ABOUT ATHENS

Welcome to Athens, the historical capital of Europe. Welcome to the birthplace of democracy, arts, science and philosophy of western civilisation. Home of Plato, Socrates, Pericles, Euripides, Sophocles, Aeschylus. Athens is one of the world's oldest cities. It's recorded history spanning around 3.400 years and it is being inhabited since the 11th millennium B.C. E. Today, under the shadow of Parthenon, the contemporary urban scenery of the sprawling city reflects its exciting history, its multi-cultural modern personality as well as the infrastructure and facilities.

The perfect Mediterranean climate with the legendary greek sunlight, the unique combination of glorious history with modern, urban innovation, the coexistence of great culture with astonishing natural beauty, the vibrant rhythm of life and of course the warmth of the Athenians people feature Athens as the ideal all year round city break destination. The city of Parthenon is an open air museum. A large part of the town's historic center has been converted into a 3 km pedestrian zone, one of the largest in Europe. It leads to the major archaeological sites ("archaeological park"), reconstructing – to a large degree – the ancient landscape. Either on foot or by bike, the "Grande Promenade" around Acropolis is an unforgettable journey through history.

MEETING VENUE

The Masterclass will be held in Buildings K8 and K3 at the HELLENIC PASTEUR INSTITUTE, ATHENS, GREECE (Vasilissis Sofias 127, Athens 115 21, Greece).

ACT OF GOD

It is mutually agreed that in the event of total or partial cancellation of the congress due to fire, strike, natural disaster (either threatened or actual), government regulations or incidents not caused by the organizer, which would prevent its scheduled opening or continuance, the Meeting may be partially postponed or terminated as a whole. In this case, participants are not entitled to reclaim refunds on no account. Participants are obliged to have civil liability insurance.

BADGES

All delegates will receive a name badge at the registration desk. The badge is the official meeting document and should be worn at all times.

CATERING

Lunches and coffee breaks from Friday to Saturday are included in the registration fee. The catering stations are located in the Foyer of the K8 building (on November 25), while on November 26 distribution points will be located both in the Foyer of K8 building and in the corridor of K3 building.

CERTIFICATE OF ATTENDANCE

All registered attendees, whether they register in advance or on site, will receive a certificate of attendance after the Athens Masterclass via email.

GENERAL INFORMATION

CME ACCREDITATION

The EACTAIC ECMO-LVAD masterclass, Athens, Greece, 25/11/2022-26/11/2022 has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with 14 European CME credits (ECMEC®s). Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

Through an agreement between the Union Européenne des Médecins Spécialistes and the American Medical Association, physicians may convert EACCME® credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME® credit to AMA credit can be found at www.ama-assn.org/education/earn-credit-participation-international-activities.

Live educational activities, occurring outside of Canada, recognised by the UEMS-EACCME® for ECMEC®s are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada.



CONGRESS LANGUAGE

The official language of the congress is English. Simultaneous translation is not provided.

INSURANCE

Congress organizers cannot accept liability for personal injuries or for loss of or damage to property belonging to congress participants, either during or as a result of the Congress. Therefore, please check the validity of your own insurance.

NO-SMOKING POLICY

Smoking is strictly prohibited during all meetings and in all buildings at all times.

WIFI

Username: EACTAIC MASTERCLASS2022
Password: EACTAIC2022

MEDTECH

The EACTAIC ECMO-LVAD masterclass is compliant with the MedTech Europe Code of Ethical Business Practice.



INFORMATION FROM A TO Z

PRESENTING SPEAKERS

Faculty members are kindly requested to bring their own laptop, with their presentation on a USB stick. Faculty Lounge room will be available only on November 25, 2022 to check presentations. Speakers are kindly requested to check their presentation within one hour before their speech.

REGISTRATION

This masterclass has a maximum number of 112 seats. Registration is valid only if the complete fee has been paid in full. If any remaining unsold seats remain until November 25, the new registrations will be accepted directly on-site during the entire congress within registration desk opening hours (only credit card payments will be accepted on-site).

Only credit cards will be accepted for on-site registration. Valid proof of status must be presented on-site when registering at lower rates. Registration fees are published at <https://www.eactaic.org/event/masterclass2022>

Course participants are encouraged to come for the registration some time before starting lectures in order to avoid queueing.

CME CREDITS

Please remember to sign your entry and exit times in the dedicated lists placed outside each room to gain the CME Credits. Without your signatures (entrance/exit) credits will not be gained.

WELCOME RECEPTION

On November 25 at 18.10 a Welcome reception open to all registered

EACTAIC ECMO-LVAD MASTERCLASS

participants and faculty will take place in the Foyer of the Meeting Venue.

PHOTOGRAPHY, AUDIO, VIDEO AND MOBILE PHONE POLICY

Audio, photo and video recording by any device (e.g. cameras, laptops, PDAs, mobile phones, watches) is strictly prohibited during all sessions, unless prior permission is obtained from the congress organizer.

Delegates are kindly requested to set their mobile phones on silent mode in rooms where scientific sessions are being held.

OPENING HOURS

Registration counter and congress office:
Friday, November 25
08:00 – 18:30
Saturday, November 26
07:30 – 17:00

ORGANIZING SECRETARIAT



AIM Italy Srl
Via Flaminia 1068,
00189 Rome – Italy
Phone: +39 0633053.1
eactaic.masterclass@aimgroup.eu
www.eactaic.org



AIM Group has been certified as an Ethical Trusted Partner by MedTech Europe.

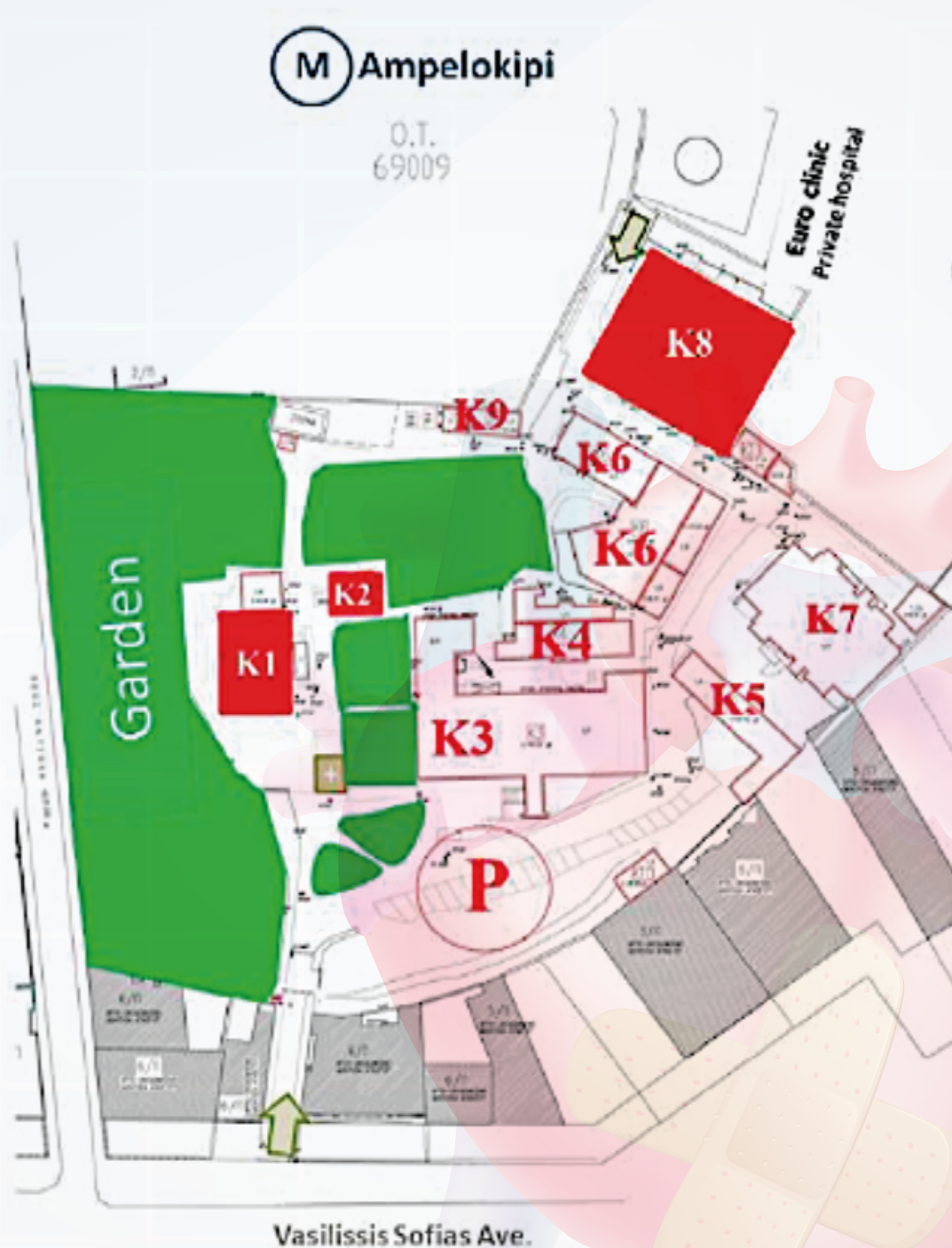
FLOOR PLAN



European Association
of Cardiothoracic Anaesthesiology
and Intensive Care



Onassis
Cardiac Surgery
Center



The **Hellenic Pasteur Institute** is situated in close proximity to the Athens city centre. Its main entrance is in 127, Vassilissis Sofias Avenue, and its secondary entrance in Athanassiadou street.

It is easily accessible by metro, through the Ampelokipi station of **line 3** (blue line).

**EACTAIC ECMO-LVAD
MASTERCLASS**

FACULTY LIST



Waqas Akhtar (Harefield, UK)
Theofani Antoniou (Athens, Greece)
Aris Anastasakis (Athens, Greece)
Daniel Bolliger (Basel, Switzerland)
Michael Bonios (Athens, Greece)
Stefaan Bouchez (Aalst, Belgium)
Chris Bowles (London, UK)
Giuseppe Ciccarello (Rome, Italy)
Eric C. de Waal (Utrecht, Netherlands)
Stavros Dimopoulos (Athens, Greece)
Martin Dworschak (Wien, Austria)
Mohamed R. el Tahan (Mansoura, Egypt; Dammam, Saudi Arabia)
Socrates Fragoulis (Athens, Greece)
Philippe Gaudard (Montpellier, France)
Aggeliki Gkouziouta (Athens, Greece)
Ana Hurtado (London, UK)
Konstantinos Ieromonachos (Athens, Greece)
Nektarios Kogerakis (Athens, Greece)
Antigone Koliopoulou (Athens, Greece)
Nandor Marczin (Harefield, London, UK)
Marijana Matejic-Spasic (Berlin, Germany)
Chinmay Patvardhan (Papworth, UK)
Vera von Dossow (Bad Oeynhausen, Germany)
Dimitrios Zarkalis (Athens, Greece)
Prodromos Zavaropoulos (Athens, Greece)

SCIENTIFIC PROGRAMME

November 25, 2022
THEORETICAL DAY

MAIN AUDITORIUM – K8 BUILDING

END-STAGE HEART FAILURE AND SHORT-TERM DEVICES

Chairs: Theofani Antoniou (Athens, Greece)
Stavros Dimopoulos (Athens, Greece)

- 9:00 – 9:10 **Welcome and introduction to the EACTAIC ECMO-VAD masterclass**
Mohamed R. El Tahan (EACTAIC Education Chair, Mansoura, Egypt)
- 9:10 – 9:30 **Setting the scene: Options in management of Intermacs 1 patients**
Eric de Waal (Utrecht, Netherlands)
- 9:30 – 9:50 **Pros and cons of Intra-Aortic Balloon Pump**
Aggeliki Gkouziouta (Athens, Greece)
- 9:50 – 10:10 **Pros and cons of Impella device**
Ana Hurtado (London, United Kingdom)
- 10:10 – 10:30 **Importance of unloading LV in end-stage heart failure**
Michael Bonios (Athens, Greece)
- 10:30 – 11:00 **Coffee break (Foyer K8 Building)**

ECMO

Chairs: Philippe Gaudard (France)
Antigone Koliopoulou (Athens, Greece)

- 11:00 – 11:20 **Types of ECMO, indications and anticoagulation strategies**
Chinmay Patvardhan (Papworth, UK)
- 11:20 – 11:40 **ECMO complications**
Antigone Koliopoulou (Athens, Greece)
- 11:40 – 12:00 **Patient management during ECMO support and weaning protocols**
Stavros Dimopoulos (Athens, Greece)
- 12:00 – 12:30 **Lunch break (Foyer K8 Building)**

EACTAIC ECMO-LVAD
MASTERCLASS

SCIENTIFIC PROGRAMME

November 25, 2022
THEORETICAL DAY

INDUSTRY SPONSORED SYMPOSIUM

please see page n.14

LVAD

Chairs: Chris Bowles (Harefield, United Kingdom)
Eric de Waal (Utrecht, The Netherlands)

- 13:40 – 14:00 **Preoperative optimization of patients scheduled for VAD implantation**
Vera von Dossow (Bad Oeynhausen, Germany)
- 14:00 – 14:20 **Perioperative coagulation disorders**
Daniel Bolliger (Basel, Switzerland)
- 14:20 – 14:40 **The current status of minimally invasive implantation techniques and anaesthetic implications**
Nandor Marczin (Harefield hospital, London UK)
- 14:40 – 15:00 **RV Failure: risk stratification and strategies**
Ana Hurtado (London, United Kingdom)
- 15:00 – 15:20 **Coffee break (Foyer K8 Building)**

ICU

Chairs: Vera von Dossow (Bad Oeynhausen, Germany)
Ana Hurtado (Harefield, United Kingdom)

- 15:20 – 15:40 **Postoperative management in the ICU**
Philippe Gaudard (Montpellier, France)
- 15:40 – 16:00 **Prevention of long-term complications after LVAD implantation.**
Martin Dworschak (Vienna, Austria)

SCIENTIFIC PROGRAMME

November 25, 2022
THEORETICAL DAY

ROUND TABLE DISCUSSION: FUTURE ASPECTS

Chairs: Nandor Marczin (London, United Kingdom)
Eric de Waal (Utrecht, The Netherlands)

- 16:00 – 16:20 **New molecular and cell therapies for heart failure**
Aris Anastasakis (Athens, Greece)
- 16:20 – 16:40 **Emerging and future devices for mechanical support**
Vera von Dossow (Bad Oeynhausen, Germany)
- 16:40 – 17:00 **Transplantation remains the goal**
Nandor Marczin (Harefield, London, United Kingdom)
- 17:00 – 17:20 **Discussion**
- 17:20 – 17:50 **Meet the expert: 2 case presentations
with interactive discussion: Tops and tips**
Vera von Dossow (Bad Oeynhausen, Germany)
Eric de Waal (Utrecht, The Netherlands)
- 17:50–18:10 **Closure and introduction working stations on day 2**
Stavros Dimopoulos (Athens, Greece)
- 18:30 **Welcome cocktail (Foyer K8 Building)**

SCIENTIFIC PROGRAMME

November 26, 2022
PRACTICAL DAY

From 08:00 to 19:00

Attendees will be divided into 14 groups of 7-8 delegates each to join the stations sequentially. 25 minutes per workshop and a 5 min time for rotation. There will be two practical courses (morning and afternoon), so as to have 7 or 8 * 8 = 49 -56 attendees twice. Maximum number will be 112 attendees.

SESSIONS' BREAKS

9:25-9:55: break

11:30-11:50: break

12:15-12:45: lunch break

14:10-14:30: break

16:05-16:25: break

K3 BUILDING - CORRIDOR 1

WS 1. ECMO set-up, configurations, function, monitoring

Nektarios Kogerakis (Athens, Greece), Chinmay Patvardhan (Papworth, UK)

K3 BUILDING - CORRIDOR 2

WS 2. ECMO circuit change, pump/oxygenator change

Socrates Fragoulis (Athens, Greece), Prodromos Zavaropoulos (Athens, Greece)

K8 BUILDING - AUDITORIUM

WS 3. ECMO troubleshooting (in a clinical scenario)

Stavros Dimopoulos (Athens, Greece), Philippe Gaudard (Montpellier, France)

K8 BUILDING - FOYER

WS 4. Wetlab: LVAD implantation

Konstantinos Ieromonachos. (Athens, Greece), Dimitrios Zarkalis (Athens, Greece)

K3 BUILDING - OFFICE 1

WS 5. Demo HMIII LVAD simulation station

Antigone Koliopoulou (Athens, Greece), Giuseppe Ciccarello (Rome, Italy)

K2 BUILDING

WS 6. PBL discussion: LV and RV haemodynamics in LVAD implantation

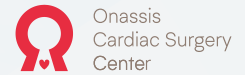
Stefaan Bouchez (Aalst, Belgium), Nandor Marczin (Harefield, London, United Kingdom)

K3 BUILDING - OFFICE 2

WS 7. Resuscitation guidelines of a patient with LVAD

Chris Bowles (Harefield, United Kingdom), Ana Hurtado (Harefield, UK), Waqas Akhtar (Harefield, UK)

SCIENTIFIC PROGRAMME



November 25, 2022
THEORETICAL DAY

INDUSTRY SPONSORED SYMPOSIUM

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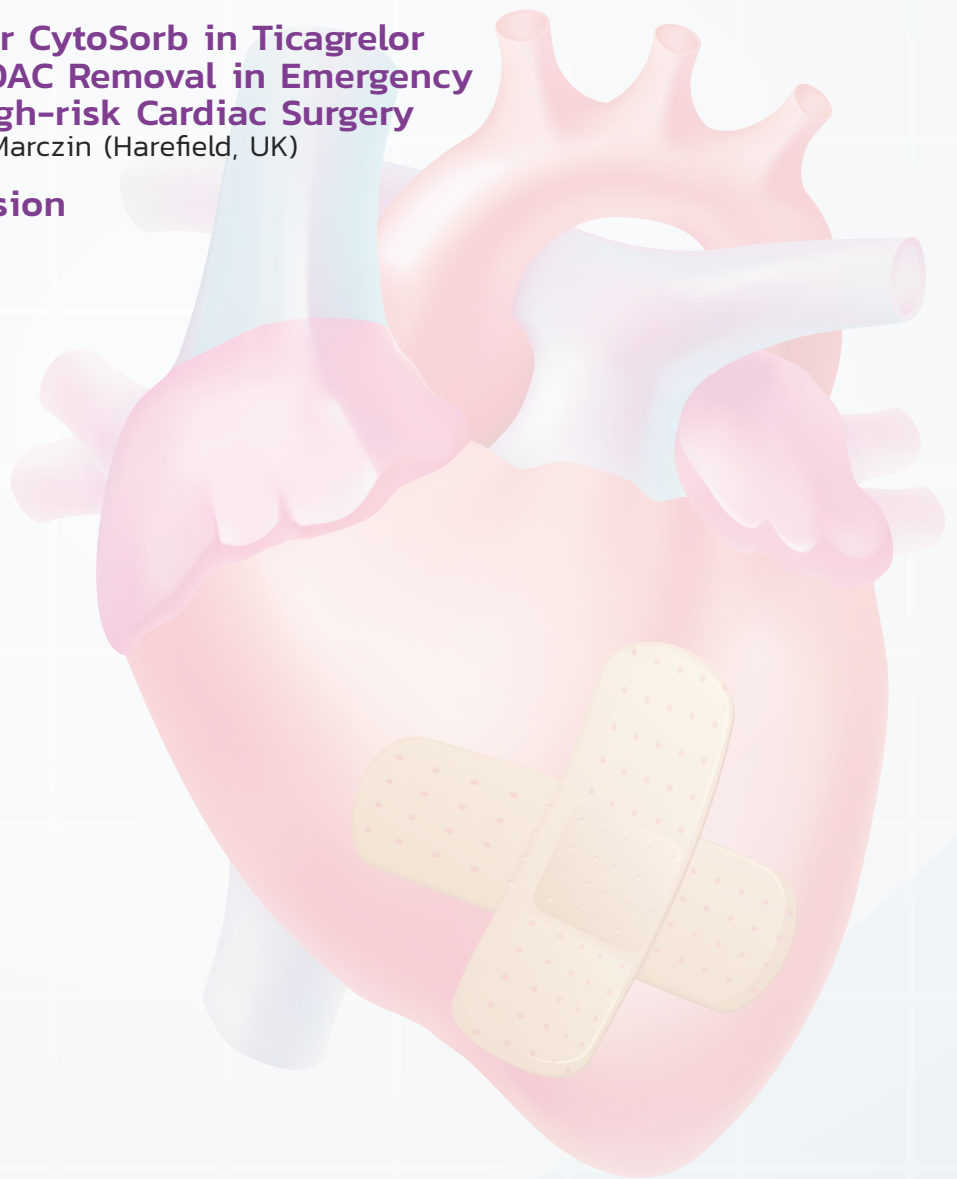
EACTAIC ECMO-LVAD
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SCIENTIFIC PROGRAMME

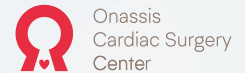
November 25, 2022
THEORETICAL DAY

CYTOKINES REMOVAL THERAPY DURING ECMO AND LVAD IMPLANTATION

- 12:30 - 12:45 **Introduction to hemoadsorption**
with Cytosorb. Marijana Matejic-Spasic (Berlin, Germany)
- 12:45 - 13:00 **The application of Cytosorb**
in temporary and durable mechanical support
Eric de Waal (Utrecht, The Netherlands)
- 13:00 - 13:15 **Role for CytoSorb in Ticagrelor**
and DOAC Removal in Emergency
and High-risk Cardiac Surgery
Nandor Marczin (Harefield, UK)
- 13:15 - 13:30 **Discussion**



SPONSORS



The Scientific and Organizing Committees would like to express their gratitude to all those who have generously contributed with an unrestricted educational grant.



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