







Endorsed by:







CONGRESS VENUE: University of Turin - Department of Surgical Sciences, Dental School academic laboratory



Course Overview

Mechanical Circulatory Support devices are currently playing an important role in the treatment of refractory advanced heart failure. Technology and surgical strategies are rapidly evolving and improving. However, knowledge transfer and methods to surmount the learning curve remain crucial to improve patients' outcomes. During the EACTS MCS masterclass course which figures as an essential part of and a practical learning/application of the knowledge gained during the annual EACTS MCS academy summit, clinicians who want to acquire more skills in this delicate area will learn key aspects and vital skills of MCS surgical procedures from an internationally recognised group of experts.

This course provides cardiothoracic surgeons in training or anyone wishing to enhance their experience with didactic teaching, hands on wet- and dry-lab operative experience and practical demonstrations in the surgical techniques and skills needed for successful use of short-term and durable mechanical circulatory support systems.

Delegates will have the opportunity to undertake LVADs, BVADs, TAH and ECMO implantation in simulators under the guidance of a faculty of experienced surgeons, anesthesiologists and intensive care specialists. Candidates will gain practical experience in cannulation for ECMO and microaxial pumps, running these devices, troubleshooting after implantation and in focused echocardiography. All technologies and devices will be also demonstrated in small groups during teaching sessions. This is an intensive two-day course of lectures, debate and practical hands-on surgical practice and opportunity.

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Skills Level 2 - Residents in the final years of training and surgeons at the beginning of independent practice.

Open for:

Cardiothoracic surgeons, Cardiac anesthesiologists, Cardiologists, Residents and Fellows, Perfusionists, VAD coordinators, Nurses, Technicians.

Learning Objectives -

- Understanding of selection of patients for durable left, right and biventricular assist device/TAH implantation, technical aspects of the surgery and clinical outcomes.
- Understanding the application of tMCS and hands on practice of implantation of devices such as ECMO and mAFP facing with several types of cannulation and insertion.
- Understanding the role of durable mechanical assist devices and practice of implantation of devices in the wet- and dry-lab.
- Practicing the technique of VADs and ECMO surgery in mannequins and animal hearts.
- Practicing (simulation) and understanding the usage and application of TEE/TTE for imaging and assessment
 of pts on both temporary and durable MCS.
- Meet experts in the field and discuss important issues in your own development of a MCS program.

Faculty

ABART THEODOR, Wien - AT ATTISANI MATTEO. Turin - IT **BOFFINI MASSIMO. Turin - IT** BOTTA LUCA, Bologna - IT CONROTTO FEDERICO, Turin - IT COSTAMAGNA ANDREA. Turin - IT D'ASCENZO FABRIZIO, Turin - IT DE FERRARI GAETANO MARIA, Turin - IT FAERBER GLORIA, Homburg - DE FECCIA MARIANO, Rome - IT FREA SIMONE, Turin - IT GALLONE GUGLIELMO. Turin - IT GEROSA GINO, Padova - IT GIUNTA MATTEO, Turin - IT GUSTAFSSON FINN, Copenhagen - DK IANNACCONE MARIO, Turin - IT KUKUCKA MARIAN, Berlin - DE LOFORTE ANTONIO. Turin - IT

MARTIN SUAREZ SOFIA. Bologna - IT MUSUMECI FRANCESCO, Palermo - IT NETUKA IVAN. Prague - CZ PACE NAPOLEONE CARLO, Turin - IT PACINI DAVIDE, Bologna - IT PAROLARI ALESSANDRO, Milan - IT PIDELLO STEFANO. Turin - IT PILATO MICHELE, Palermo - IT POTAPOV EVGENIJ. Berlin - DE RAINERI CLAUDIA, Turin - IT RAME EDUARDO, Philadelphia - US RINALDI MAURO, Turin - IT SALIZZONI STEFANO, Turin - IT SCANDROGLIO MARA, Milan - IT TCHANTCHALEISHVILI VAKHTANG, Philadelphia - US TODA KOICHI, Saitama - JP TROMPEO ANNA CHIARA, Turin - IT VANDENBRIELE CHRISTOPHE, London - UK

June 7th 2024

Temporary-Mechanical Circulatory Support (ECMO, mAFPf, LVAD, RVAD, BVAD)

<u>CHAIRS</u>: A. Loforte, E. Potapov, G. Faerber, M. Boffini, D. Pacini, M. Feccia, A.C. Trompeo, V. Tchantchaleishvili, M. Rinaldi

- 9.00 Welcome, course day 1 introduction, learning objectives.
 Welcome by European Society for Cardiothoracic Surgery (EACTS), International Society for Mechanical Circulatory Support (ISMCS) and Italian Society for Cardiac Surgery (SICCH)
 A. Loforte, G. Faerber, M. Pilato
- 9.15 Cardiogenic Shock: a clinical need to address soon and properly G.M. De Ferrari
- 9.30 t-MCS as treatment of different phenotypes of Cardiogenic Shock M. Rinaldi
- 9.45 Echo imaging pre-, peri-, and post- t-MCS M. Kukucka
- 10.00 Haemodynamic assessment and management pre-, peri-, and post- t-MCS C. Vandenbriele

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10.15	Interactive Discussion I
10.45	Coffee break
11.15	Indications and contraindications: how to select the right patient for type of t-MCS G. Faerber
11.30	Set-up and cannulation options for t-MCS insertion E. Potapov
11.45	Temporary RV support: current options and strategies V. Tchantchaleishvili
12.00	How to handle complications during t-MCS running E. Potapov
12.15	Needs, tips and tricks in pediatric t-MCS and d-MCS population C. Pace Napoleone - M.T. Cascarano
12.30	Transport on t-MCS M. Boffini

June 7th 2024

18.15 Closure day **1** A. Loforte, E. Potapov

12.45 Interactive Discussion II **13.15** Light lunch Training dry- and wet-lab I (Rotational and alternate running) 14.15 Station 1 - Fcho lab G. Gallone, S. Frea, M. Kukucka, S. Pidello Station 2 - Impella mAFP lab (Abiomed) F. Conrotto, F. D'ascenzo, M. Iannaccone, A. Loforte, I. Netuka, E. Potapov Station 3 - d-LVAD wet lab (Abbott) T. Abart, L. Botta, G. Faerber, M. Feccia, A. Loforte, I. Netuka, E. Potapov, K. Toda Station 4 - d-LVAD wet lab (CoreHeart 6) M. Boffini, G. Faerber, M. Feccia, A. Loforte, E. Potapov, K. Toda **Station 5 - ECMO lab (Getinge - Eurosets)** M. Attisani, M. Boffini, A. Costamagna, M. Giunta, E. Potapov, S. Salizzoni

June 8th 2024

Durable-Mechanical Circulatory Support (LVAD, RVAD, BVAD, TAH)

<u>CHAIRS</u>: A. Loforte, E. Potapov, G. Faerber, M. Boffini, F. Musumeci, M. Feccia, A.C. Trompeo, V. Tchantchaleishvili, M. Rinaldi

- 8.30 Welcome, course day 1 introduction, learning objectives. Welcome by European Society for Cardiothoracic Surgery (EACTS), International Society for Mechanical Circulatory Support (ISMCS) and Italian Society for Cardiac Surgery (SICCH)

 A. Loforte, G. Faerber, M. Pilato
- 8.45 Chronic advanced heart failure: current treatment policy and results F. Gustafsson
- 9.00 d-MCS as treatment of different fenotypes of chronic advanced heart failure: current and merging options
 - I. Netuka
- **9.15** Concomitant cardiac surgery procedures at the time of d-LVAD implantation A. Loforte
- 9.30 Echo imaging pre-, peri-, and post- d-MCS M. Kukucka

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9.45	Haemodynamic assessment and management pre-, peri-, and post- d-MCS M. Scandroglio
10.00	smart d-MCS: how to read displays, controllers and monitors T. Abart
10.15	Interactive Discussion III
10.40	Coffee break
11.10	Indications and contraindications: how to select the right patient for type of d-LVAD and TAH G. Faerber
11.25	Implantation strategies for d-LVAD E. Potapov
11.40	Virtual simulation and surgical implantation of TAH G. Gerosa
11.55	How to handle complications during d-MCS running E. Potapov
12.10	Myocardial function recovery after MCS: an update E. Rame

June 8th 2024

12.25	Current development and application of d-MCS in Japan: Asia-Pacific population management K. Toda
12.40	Interactive Discussion IV
13.10	Light lunch
14.00	Training dry- and wet-lab II (Rotational and alternate running) Station 1 - Echo lab G. Gallone, S. Frea, M. Kukucka, S. Pidello, C. Raineri Station 2 - Impella mAFP lab (Abiomed) M. Iannaccone, A. Loforte, I. Netuka, E. Potapov Station 3 - d-LVAD wet lab (Abbott) T. Abart, L. Botta, G. Faerber, A. Loforte, I. Netuka, E. Potapov, K. Toda Station 4 - d-LVAD wet lab (CoreHeart 6)
40.00	M. Boffini, G. Faerber, A. Loforte, S. Martin Suarez, E. Potapov, K. Toda Station 5 - ECMO lab (Getinge - Eurosets) M. Attisani, M. Boffini, A. Costamagna, M. Giunta, E. Potapov, S. Salizzoni
18.00	Closure day 2 M. Boffini, E. Potapov

COURSE INFORMATION:

Date _____

June 7th - June 8th, 2024

Location —

University of Turin, Department of Surgical Sciences, Dental School academic laboratory Via Nizza 230. Turin - Italy

A. Loforte (Turin), E. Potapov (Berlin), G. Faerber (Homburg), M. Boffini (Turin), M. Rinaldi (Turin)

Course Format

In-person meeting.

Interactive Workshops including presentations and videos.

Interactive device and technology demonstrations employing simulators.

Hands-on wet- and dry-lab operative sessions.

TE echo monitoring and assessment simulations.

Course Fee —

EACTS - ISMCS Member: € 550.00 EACTS - ISMCS Non-Member: € 650.00

Residents, Fellows, Technicians, Perfusionists, Nurses: € 350.00

Fee includes lunch, refreshments and conference kit.

Kindly note due to the nature of this course, registration may be limited to 60 delegates.

Unrestricted grant by

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