

MECHANICAL CIRCULATORY SUPPORT Masterclass 2024

TORINO-ITALY
June 7th - 8th, 2024



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



UNIVERSITÀ
DI TORINO

Endorsed by:



MECHANICAL CIRCULATORY SUPPORT

Masterclass 2024

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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Target Audience

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.*

MECHANICAL CIRCULATORY SUPPORT

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Faculty

ABART THEODOR, Wien - AT

BOFFINI MASSIMO, Turin - IT

DE FERRARI GAETANO MARIA, Turin - IT

FAERBER GLORIA, Homburg - DE

FECCIA MARIANO, Rome - IT

GEROSA GINO, Padova - IT

GUSTAFSSON FINN, Copenhagen - DK

KUKUCKA MARIAN, Berlin - DE

LOFORTE ANTONIO, Turin - IT

MUSUMECI FRANCESCO, Palermo - IT

NETUKA IVAN, Prague - CZ

PACE NAPOLEONE CARLO, Turin - IT

PACINI DAVIDE, Bologna - IT

PAROLARI ALESSANDRO, Milan - IT

PILATO MICHELE, Palermo - IT

POTAPOV EVGENIJ, Berlin - DE

RAME EDUARDO, Philadelphia - US

RINALDI MAURO, 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)

CHAIRS: 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, A. Parolari

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

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 Transport on t-MCS

M. Boffini

12.00 How to handle complications during t-MCS running

E. Potapov

June 7th 2024

12.15 Myocardial function recovery after MCS: an update

E. Rame

12.30 Needs, tips and tricks in pediatric t-MCS and d-MCS population

C. Pace Napoleone

12.45 Interactive Discussion II

13.15 Lunch

14.15 Training dry- and wet-lab I (Rotational and alternate running)

Station 1 - Echo lab

Station 2 - Impella mAFP lab (Abiomed)

Station 3 - d-LVAD wet lab HeartMate 3 (Abbott)

Station 4 - Total Artificial Heart lab (Carmat Aeson)

Station 5 - d-LVAD wet lab CoreHeart 6 (Core Medical & Avidal)

Station 6 - ECMO lab (Getinge - Eurosets)

18.15 Closure day 1 A. Loforte, E. Potapov

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

CHAIRS: 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, A. Parolari

8.45 Chronic advanced heart failure: current treatment policy and results

F. Gustafsson

9.00 d-MCS as treatment of different phenotypes 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

June 8th 2024

- 9.30 Echo imaging pre-, peri-, and post- d-MCS**
M. Kukucka
- 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**
- 10.45 Coffee break**
- 11.15 Indications and contraindications: how to select the right patient for type of d-LVAD and TAH**
G. Faerber
- 11.30 Implantation strategies for d-LVAD**
E. Potapov
- 11.45 Virtual simulation and surgical implantation of TAH**
G. Gerosa

12.00 How to handle complications during d-MCS running

E. Potapov

**12.15 Current development and application of d-MCS in Japan:
Asia-Pacific population management**

K. Toda

12.30 Interactive Discussion IV

13.00 Lunch

14.00 Training dry- and wet-lab II (*Rotational and alternate running*)

Station 1 - Echo lab

Station 2 - Impella mAFP lab (Abiomed)

Station 3 - d-LVAD wet lab HeartMate 3 (Abbott)

Station 4 - Total Artificial Heart lab (Carmat Aeson)

Station 5 - d-LVAD wet lab CoreHeart 6 (Core Medical & Avidal)

Station 6 - ECMO lab (Getinge - Eurosets)

17.00 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 130, Turin - Italy

Course Directors and Organising Committee

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.



Contact details:

masterclass.mcs2024@gmail.com

www.eventi-comunicare.it

www.unito.it