

EVOLVING STRATEGIES IN THE CARE OF THE COMPLEX CARDIOVASCULAR SURGICAL PATIENT



INTERNATIONAL SCHOOL OF CARDIAC SURGERY ERICE 9 - 13 APRIL 2022

PURPOSE OF THE COURSE

This interdisciplinary and interactive Course has been designed to provide a comprehensive survey of the constantly evolving innovative techniques adopted to address the increasingly serious and complex clinical situations which pose new challenges to the physicians involved in the diagnosis and treatment of both adult and pediatric cardiovascular diseases. These aspects will be highlighted, appraised and discussed in depth, so that upon completion of the Course participants will have had the opportunity to gain a thorough knowledge of the state of the art of the most recent innovative procedures and will be equipped with the necessary information that will allow them to be cognisant of the current techniques for the optimization of diagnostic and therapeutic strategies that are shaping the clinical evolution of the specialty in the various clinical settings.

APPLICATIONS

Persons wishing to attend this Course should send an application, preferably by electronic mail, to:

Professor Ugo Filippo Tesler
e-mail: graffa@ismett.edu

Specifying:

- i) Date and place of birth together with present nationality;
- ii) Present position and place of work.

ACCOMODATION AND FACILITIES

There are living quarters in all three renovated monasteries for people attending the Courses at the Centre. In addition to the rooms in the three Institutes, some participants may be housed in local hotels, depending upon the size of the group, and whether there are parallel activities taking place. Meals are provided at a variety of local restaurants.

ARRIVAL AND DEPARTURE

There are many flights from Rome and from Milan to Palermo. Also, there are a few flights to the Airport of Trapani Birgi which is closer to Erice.

On the official arrival day, transportation from Palermo airport to Erice will be provided by the Ettore Majorana Centre. Our bus will be available at Palermo airport on the afternoon of your arrival day until 5 p.m., to drive you to Erice. Participants arriving at Palermo airport should look for the Ettore Majorana meeting point inside the terminal at the arrival gate where the Ettore Majorana Centre driver will be waiting. Transportation will be provided also for participants arriving at Trapani Birgi Airport. On the official day of departure, transfer to Palermo and to Trapani Birgi airports will be provided by the Centre.

Participants must communicate their arrival and departure times and flight numbers well in advance of their arrival in order to organise their transfer to the airports.

ACCOMPANYING PERSONS

It is necessary for those participants who would like to be accompanied by members of their families to contact the Organizers well in advance of their arrival. Accommodation is limited and priority will be given to the first-comers.

REGISTRATION FEE

The fee for attending the 2022 Course of the "International School of Cardiac Surgery" is Euro 600 per participant. The Course fee, besides the scientific sessions, includes housing, meals, airport transfers and all social activities associated with the Centre during your stay in Erice.

PAYEMENT OF FEE

Transfer amount 600 Euro/person
HOLDER: Fondazione Ettore Majorana e Centro di Cultura Scientifica
Via Guarnotta 26 - 91016 Erice, Italy
BANK: Unicredit Private Banking S.p.A.
Filiale di Trapani, Italy
ACCOUNT NUMBER: 000600000655
BANK CODE: ABI: 02008 - CAB: 16407 - CIN: I
IBAN: IT 47 I 02008 16407 000600000655
Bic Swift: UNCRITMM

Reason for payment:

Name of the participant,
INTERNATIONAL SCHOOL OF CARDIAC SURGERY
Evolving strategies in the care of the complex cardiovascular patient.

Please be sure that your name appears on the receipt that you will be requested to present upon your arrival in Erice.

The fee can be paid, alternatively in Erice, upon registration:

i) in cash; ii) with travellers cheques; iii) with Eurocheques.

PLEASE NOTE

Participants should arrive in Erice on Saturday, 9th April not later than 7 p.m.

More information about the "Ettore Majorana" Foundation and Centre for Scientific Culture can be found on the web site: cssem.infn.it

ETTORE MAJORANA FOUNDATION AND CENTRE FOR SCIENTIFIC CULTURE
INTERNATIONAL SCHOOL OF CARDIAC SURGERY

8th Course **EVOLVING STRATEGIES IN THE CARE OF THE COMPLEX CARDIOVASCULAR SURGICAL PATIENT** - ERICE - SICILY 9 -13 APRIL 2022

Sponsored by the: •Italian Ministry of Education, University and Scientific Research • Sicilian Regional Government

TOPICS AND LECTURERS

- The impact of multi-morbidity on cardiac surgery practice
- Heart lung interaction in the critically ill: pathophysiology and monitoring at the bedside
- Thrombosis and treatment of thrombotic disorders of patients with unstable cardiac clinical conditions candidate to MCS or urgent cardiac surgery
- Assessment and management of right ventricular dysfunction in the perioperative setting
- Cardiogenic shock: State of the art
- Optimising cardiac output following cardiac surgery: A multimodality approach
- The role of imaging in the care of the critical cardiovascular surgical patients
- End-stage heart failure: At the crossroad of life
- Management of heart failure: Update
- Timing of LVAD implant
- Right ventricle and LVAD
- Technology and techniques for left ventricular assist device: A Bi-Tech solution
- Left ventricular global strain analysis: Time to go beyond ejection fraction
- Long-term follow-up of patients with mechanical circulatory support
- Management strategy of sensitization in heart transplant and VAD implant
- Protection and reperfusion of cardiac graft
- Long term management of cardiac recipient
- Immunosuppression management: How to deal with complications?
- Xenotransplantation: The immunological hurdles
- ECMO and heart transplant in children
- Minimally invasive approaches in paediatric cardiac surgery
- Heart valve surgery in paediatric and adolescent patients
- The Ross operation
- Long-term survival of patients with univentricular heart
- Diagnosis and management of adult congenital heart disease: What is the key to a successful program?
- Postoperative management of the ACHD patient
- 3D modelling and printing in GUCH patients for preoperative planning
- Mitral valve: From the anatomy to the function and the treatment of its main diseases
- Aortic valve solutions in young adults
- Redo aortic surgery
- Flaws of RCT in heart valve disease management
- Cardiac surgery between innovation and tradition
- Coronary artery and heart valve disease treatment guidelines: What's going on?
- Microinvasive cardiac surgery: When less is more
- Minimally invasive aortic valve replacement Minimally invasive mitral surgery
- Robotic: the new generation of cardiac surgeon
- Robotic technology in coronary artery bypass grafting
- Hands-on surgical simulation in cardiac surgery: The next generation of surgeons
- Pros and cons of Hazard Ratio in survival analysis
- F. ALAMANNI, University of Milano, Milano, IT
- F. BARILLI, S. Croce Hospital, Cuneo, IT
- U. BENEDETTO, University of Chieti, Chieti, IT
- M. CIPRIANI, Niguarda Hospital, Milano, IT
- E. COZZI, Padova University, Padova, IT
- G. DI SALVO, Padova University, Padova, IT
- L. GALLETTI, Bambino Gesù Hospital, Roma, IT
- M. GALLO, Padova University, Padova, IT
- G. GEROSA, Padova University, Padova, IT
- A. GUARIENTO, Padova University, Padova, IT
- T. KHOURI, Policlinico di Monza, IT
- M. LETTINO, University of Milano Bicocca, Milan, IT
- U. LIVI, University of Udine, Udine, IT
- F. MASTRO, Padova University, Padova, IT
- C. MIGNOSA, University of Catania, IT
- F. MUSUMECI, San Camillo Hospital, Forlanini, Roma, IT
- D. PACINI, University of Bologna, Bologna, IT
- A. PAROLARI, University of Milano, Milano, IT
- J.R. PEPPER, Royal Brompton Hospital, London, UK
- L. POTENA, University of Bologna, Bologna, IT
- S. PRICE, Royal Brompton Hospital, London, UK
- M. RINALDI, University of Torino, Torino, IT
- G. TAVAZZI, University of Pavia, Pavia, IT
- G. THIENE, University of Padova, Padova, IT
- G. TORREGROSSA, Lankenau Heart Institute, Philadelphia, PA, USA
- V. VIDA, Padova University, Padova, IT

PROGRAMME**SUNDAY 10 APRIL****Introduction**

8,30 - 8,45 Welcome – *Ugo Tesler*

SCIENTIFIC PROGRAMME**SESSION 1 – The challenge of the critical patient**

8,45 - 9,15 The impact of multi-morbidity on cardiac surgery practice – *John Pepper*

9,15 – 9,45 Heart lung interaction in the critically ill: pathophysiology and monitoring at the bedside – *Guido Tavazzi*

9,45 – 10,15 Thrombosis and treatment of thrombotic disorders of patients with unstable cardiac clinical conditions candidate to MCS or urgent cardiac surgery – *Maddalena Lettino*

10,15–10,45 The role of imaging in the care of the critical cardiovascular surgical patients – *Toufic Khouri*

10,45 – 11,00 COFFEE BREAK**SESSION 2 -Heart failure, cardiac transplant and mechanical assist devices**

11,00 – 11,30 Left Ventricular Global Strain Analysis: Time to Go Beyond Ejection Fraction – *Giovanni Di Salvo*

11,30 – 12,00 Cardiogenic shock: state of the art – *Susanna Price*

12,00 – 12,30 Management of heart failure: an update – *Manlio Cipriani*

12,30 – 13,00 End-stage heart failure: at the crossroad of life – *Gino Gerosa*

13,00-13,30 Xenotransplantation: the immunological hurdles – *Emanuele Cozzi*

13,30 – 14,30 LUNCH

14,30 – 15,00 Timing of LVAD implant – *Manlio Cipriani*

15,00 – 15,30 Right ventricle and LVAD – *Mauro Rinaldi*

15,30 – 16,00 Technology and Techniques for Left Ventricular Assist Device: A Bi-Tech Solution – *Michele Gallo*

16,00 – 16,30 COFFEE BREAK

16,30 – 17,00 Management strategy of sensitization in heart transplant and VAD implant – *Emanuele Cozzi*

17,00 – 17,30 Long-Term Follow-Up of Patients with Mechanical Circulatory Support – *Florinda Mastro*

17,30 – 18,00 Acute myocarditis and temporary utilization of LVAD or ECMO for the recovery of contractile function – *Gaetano Thiene*

18,00 – 18,30 Discussion

18,30 ADJURN**MONDAY 11 APRIL****SESSION 3 – Perioperative challenges**

8,30 - 9,00 Optimising cardiac output following cardiac surgery: a multimodality approach – *Susanna Price*

9,00 - 9,30 Redo aortic surgery – *Davide Pacini*

9,30–10,00 Assessment and management of right ventricular dysfunction in the perioperative setting – *Susanna Price*

10,00–10,30 Aortic valve solutions in young adults – *Umberto Benedetto*

10,30 – 10,45 COFFEE BREAK**SESSION 4 – Technical innovations**

10,45 – 11,15 Microinvasive Cardiac Surgery: When Less Is More – *Gino Gerosa*

11,15 – 11,45 Robotic: the new generation of cardiac surgeon – *Francesco Musumeci*

11,45 – 12,15 Robotic Coronary artery revascularization. A “must have” tool in a coronary surgical program – *Gianluca Torregrossa*

12,15 – 12,45 Mitral valve: from the anatomy to the function and the treatment of its main diseases – *Francesco Alamanni*

12,45 – 14,30 LUNCH

14,30 – 15,00 Heart valve disease: surgery or transcatheter? – *Francesco Musumeci*

15,00 – 15,30 Minimally invasive aortic valve replacement – *Carmelo Mignosa*

15,30 – 16,00 Minimally invasive mitral surgery – *Mauro Rinaldi*

16,00 – 16,30 Flaws of RTC in heart valve disease management – *Fabio Barili*

16,30 -17,00 COFFEE BREAK**SESSION 5 – Adult congenital cardiovascular disease**

17,00 – 17,30 Diagnosis and Management of Adult Congenital Heart Disease: What is the Key to A Successful Program? – *Giovanni Di Salvo*

17,30 –18,00 3D Modeling and Printing in GUCH patients for Preoperative Planning – *Alvise Guariento*

18,00 – 18,30 Postoperative management of the ACHD patient – *Susanna Price*

18,30 –19,00 Discussion

19,00 ADJURN**TUESDAY 12 APRIL****SESSION 6 – Pediatric surgery**

8,30 - 9,00 Minimally Invasive Approaches in Pediatric Cardiac Surgery – *Vladimiro Vida*

9,00 - 9,30 Heart valve surgery in pediatric and adolescents – *Lorenzo Galletti*

9,30 – 10,00 Long-term survival of patients with univentricular heart – *Vladimiro Vida*

10,00 – 10,30 The Ross operation – *Lorenzo Galletti*

10,30 – 11,00 ECMO and heart transplant in children – *Lorenzo Galletti*

11,00 – 11,15 COFFEE BREAK**SESSION 7 – General aspects and updates**

11,15 – 11,45 Pros and cons of Hazard Ratio in survival analysis – *Fabio Barili*

11,45 – 12,15 Protection and reperfusion of cardiac graft – *Ugolino Livi*

12,15 – 12,45 Coronary artery and heart valve disease treatment guidelines: what’s going on? – *Alessandro Parolari*

12,45 – 13,15 Immunosuppression management: how to deal with complications? – *Luciano Potena*

13.15 – 14,00 LUNCH

14,00-14,30 Long term management of cardiac recipient – *Luciano Potena*

14,30 -15,00 Cardiac surgery between innovation and tradition – *Francesco Maisano*

15,30 – 16,00 Hands-On Surgical Simulation in Cardiac Surgery: The Next Generation of Surgeons – *Alvise Guariento*

16,00 – 16,30 Final considerations: what have we learnt? – *Ugo Tesler*

16,30 ADJURN

THE "ETTORE MAJORANA" FOUNDATION AND CENTRE FOR SCIENTIFIC CULTURE

The "Ettore Majorana" Foundation and International Centre for Scientific Culture (EMFCSC) is named after an outstanding Italian physicist born in 1906 who had been appointed full professor of Theoretical Physics at the University of Naples at the age of 30.

He was much respected and admired by the scientific community including, among others, by the Nobel Prize winners Enrico Fermi, Emilio Segrè, Niels Bohr, Werner Heisenberg etc. and whose disappearance during a boat trip from Palermo to Naples on 27 March 1938 is still shrouded in mystery.

THE CENTRE

The Centre is situated in the old pre-mediaeval city of Erice where three restored monasteries (San Rocco, San Domenico and San Francesco) offer an appropriate setting for high intellectual endeavors besides providing living quarters for Faculty Members and Participants to the Course. These ancient buildings are now named after great Scientists and strong supporters of the "Ettore Majorana" Centre. The San Francesco Monastery (former Viceroy's residence) is now the Eugene P. Wigner Institute with the "Enrico Fermi" Lecture Hall. The San Domenico Monastery is now the Patrick M.S. Blackett Institute with the "Paul A.M. Dirac" Lecture Hall. The San Rocco Monastery is now the Isidor I. Rabi Institute with the "Richard P. Feynman" Lecture Hall, the Directorate and the main Secretariat of the Centre.

Since the establishment of the Centre in 1962 by Professor Antonino Zichichi with the International School of Subnuclear Physics, the Centre has grown over the years and now embraces over 120 Schools, covering all fields of Science.

Address:

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POETIC TOUCH

According to legend, Erice, son of Venus and Neptune, founded a small town on top of a mountain (750 metres above sea level) more than three thousand years ago. The great historian Thucydides (~500 B.C.) said that the Elymi - founders of Erice - were survivors of the destruction of Troy.

Ancient historians agreed that Erice was the oldest city in Europe. Homer (~1000 B.C.), Theocritus (~300 B.C.), Polybius (~200 B.C.), Virgil (~50 B.C.), Horace (~20 B.C.), and others have celebrated this magnificent spot in Sicily in their poems. In Erice you can admire the Castle of Venus, the Cyclopean Walls (~800 B.C.) and the Gothic Cathedral (~1300 A.D.).

Erice is at present a mixture of ancient and medieval architecture.

Other masterpieces of ancient civilization are to be found in the neighbourhood: at Motya (Phoenician), Segesta (Elymian), and Selinunte (Greek). On the Aegadian Islands - theatre of the decisive naval battle of the first Punic War (264-241 B.C.) - suggestive neolithic and paleolithic vestiges are still visible: the grottoes of Favignana, the carvings and murals of Levanzo.

Splendid beaches are at San Vito Lo Capo, Scopello, and Cornino, and a wild and rocky coast around Monte Cofano: all at less than one hour's drive from Erice.

