



# MICS

## Minimally Invasive & Catheter Solutions

# Advanced Echo School

### **PRESIDENT**

Giuseppe **SPEZIALE**

### **COURSE DIRECTOR**

Corrado **FIORE**

### **SCIENTIFIC BOARD**

Mani A. **VANNAN**

Patrizio **LANCELLOTTI**

Angelo **SQUERI**

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**November 29-30, 2024**

Conference Area

Città di Lecce Hospital

Strada Provinciale per Arnesano km 4

**LECCE (IT)**



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## *President*

### **1 / GIUSEPPE SPEZIALE**

Vice President GVM Care&Research



2



3

## *Course Director*

### **2 / CORRADO FIORE**

Head of Cardiology Department  
and Echocardiography Lab,  
Città di Lecce Hospital, Lecce (Italy)



4



5

## *Scientific Board*

### **3 / MANI A. VANNAN**

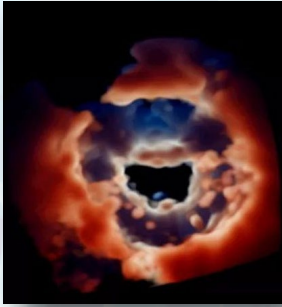
Co-Chief of Structural and Valvular  
Center of Excellence at the  
Piedmont Heart Institute,  
Atlanta (USA)

### **4 / PATRIZIO LANCELLOTTI**

Professor and Head of Intensive  
Care Cardiology Unit, Professor  
of Clinical Medicine,  
University of Liège (Belgium)

### **5 / ANGELO SQUERI**

Head of Integrated Cardiovascular  
Imaging Unit, Maria Cecilia  
Hospital, Cotignola - RA (Italy)



# WELCOME ADDRESS

## MICS ADVANCED ECHO SCHOOL Advanced perioperative/procedural 2D/3D TEE and ICE Course

### Objectives of the course

Advanced course in Perioperative/Procedural 2D/3D transesophageal and intracardiac echocardiography endorsed by 'Mitral Academy' and aimed at echocardiographers, interventionalists, cardiac surgeons focused on the surgical and percutaneous treatment of valvular heart diseases.

The course has a limited number of participants. A registration to the organizing secretariat is required and can be sent via email along with a CV.

The course consists of theoretical lectures (BASED ON LATEST ESC GUIDELINES) and extensive practical sessions held by our experts through hands-on workshops (GE, Philips, Siemens) and wet-lab on pig heart.

Our goal is to provide the echocardiographer with:

- A wide-ranging and in-depth view of the transesophageal echo and the quantification of valvular diseases;
- The ability to acquire, optimize and analyze 3D datasets;
- Start gaining confidence with intracardiac echocardiography
- Full understanding of his/her role through comparison with cardiac surgeons and interventionalists, specifically in the preoperative and intraoperative evaluation of valvular diseases.

# FRIDAY NOVEMBER 29, 2024

8.45 Introduction to the Course  
G. Speziale, C. Fiore

## SESSION 1 TRANSESOPHAGEAL ECHOCARDIOGRAPHY: FROM 2D TO 3D

*Chairs:* P. Izzo, M. Siro Brigiani

9.00 Basics of Anatomy for 2D/3D  
Transesophageal Echocardiography  
C. Fiore

9.12 3D Transesophageal  
Echocardiography: acquisition  
methods and advantages over 2D  
A. Squeri

9.24 3D Images: optimization and editing  
S. Suma

## SESSION 2 3D ANALYSIS OF VENTRICLES AND HEMODYNAMIC CALCULATIONS

*Chairs:* A. Squeri, C. Fiore

9.45 3D Analysis of the Left and Right  
Ventricle: acquisition modalities,  
post-processing and clinical utility  
M. Tomaselli

9.57 Hemodynamic calculations by TEE:  
from stroke volume to volumetric  
methods to quantify valves  
regurgitation and congenital defects  
A. Mladenov

10.10 **LECTIO MAGISTRALIS**  
Intracardiac echocardiography (ICE):  
a Lantern inside the heart  
M. Vannan

## SESSION 3 CLINICAL CASES BASED SESSION: WHY 3D OVER 2D?

*Chairs:* M. Vannan

**10.30-11.00**

- 1 CASE: S. Suma
- 2 CASE: C. Fiore
- 3 CASE: A. Squeri
- 4 CASE: M. Tomaselli

11.00 Coffee Break

## SESSION 4 AORTIC VALVE DISEASES

*Chairs:* F. Mangini, D. Paparella, G. Santarpino

11.30 2D/3D TEE Study of Aortic Valve and  
Aortic Root: when 3D is useful?  
A. Squeri

11.42 LOW-FLOW LOW-GRADIENT  
AORTIC STENOSIS: Classification,  
Calculations, and Echocardiographic  
Pitfalls in Area and Gradients  
Measurements  
T. Viva

11.54 AORTIC REGURGITATION:  
transesophageal analysis of  
regurgitation mechanisms and  
multiparametric quantification.  
Comparison between Echo vs CMR  
O. Ozden

12.06 PERIOPERATIVE TRANSESOPHAGEAL  
ECHOCARDIOGRAPHY: concepts of  
effective height, geometric height,  
coaptation height. How to Measure  
Them for Surgical Repair  
C. Fiore

# FRIDAY NOVEMBER 29, 2024

## SESSION 5 TRICUSPID VALVE DISEASES

*Chairs:* V. Pergola, K. Fattouch

- 12.18** 2D/3D Transthoracic, Transesophageal and Transgastric Study of the Tricuspid Valve  
**C. Fiore**
- 12.30** TRICLIP: preoperative selection of the patient with echocardiographic parameters to be evaluated and step-by-step intraprocedural TOE guide  
**V. Cammalleri**
- 12.42** Role of ICE in the treatment of tricuspid valve diseases  
**M. Vannan**
- 12.55** **LECTIO MAGISTRALIS**  
ECHOCARDIOGRAPHIC  
QUANTIFICATION OF TRICUSPID  
REGURGITATION  
State of the art  
**P. Lancellotti**
- 13.15** Cardiac amyloidosis: “red flags”, diagnostic and therapeutic pathways  
**L. Bertini**
- 13.30** **Light Lunch**

## SESSION 6 HANDS-ON

**14.30-18.30**

- **Room 1:** Workshop Philips  
**H. Mahmoud-Elsayed, A. Squeri, S. Suma, C. Fiore**
- **Room 2:** Workshop GE  
**M. Tomaselli, T. Viva, C. Fiore, V. Cammalleri**
- **Room 3:** Workshop Siemens  
**M. Vannan**
- **Room 4:** WET-LAB  
**L. Specchia, G. Santarpino**

## PROGRAM WORKSHOPS:

- Cropping and make-up of images. Clinical cases
- 3D analysis of the left and right ventricle: from acquisition to post-processing. Clinical cases
- 3D aortic valve and aortic root analysis, acquisition and post-processing. Clinical cases
- 3D analysis of the tricuspid valve, acquisition and post-processing. Clinical cases
- Intracardiac Echocardiography: How to?

**18.30** Closing Time

# SATURDAY NOVEMBER 30, 2024

## SESSION 1 MITRAL VALVE DISEASES

*Chairs: P. Izzo, M. Siro Brigiani*

- 9.00** 2D/3D TOE Analysis of the Mitral Valve: how and why 3D changed our point of view?  
**S. Suma**
- 9.12** MITRAL STENOSIS: echocardiographic aspects from rheumatic to calcific form; quantification and criteria for percutaneous valvuloplasty  
**A. Squeri**
- 9.24** DEGENERATIVE MITRAL REGURGITATION: from Fibroelastic Deficiency to Barlow, Echocardiographic Guide to Mitral Repair and Prevention of Complications  
**A. Pasquini**
- 9.36** ARRHYTHMIC MITRAL VALVE PROLAPSE: definition, pathogenesis and gray areas in treatment  
**O. Ozden**
- 9.48** FUNCTIONAL MITRAL REGURGITATION: echocardiographic features of atrial and ventricular forms; repair, replacement or medical therapy?  
**C. Fiore**
- 10.00** BARLOW'S DISEASE: resect vs respect? Surgical Techniques Compared and Choosing the Ring Sizing  
**K. Fattouch**

- 10.12** APPROACH TO MITRAL REGURGITATION WITH MULTIMODALITY IMAGING: advantages and limitations of echo and MRI for quantification. Is there any gold standard?  
**L. Leo**
- 10.36** When quantifying mitral regurgitation, we need to be humble: from PISA to volumetric method, a plausible approach  
**F. Timmermans**
- 10.42** LECTIO MAGISTRALIS  
Favorable and unfavorable mitral anatomies for transcatheter edge to edge repair  
**H. Mahmoud-Elsayed**

**11.00** Coffee Break

## SESSION 2 TOE'S ROLE IN STRUCTURAL HEART DISEASES

*Chairs: F. Castriota, C. Fiore, A. Marchese*

- 11.30** TRANSEPTAL PUNCTURE: role of TEE during transeptal puncture depending on the structural heart disease to be treated  
**H. Mahmoud-Elsayed**
- 11.42** MITRACLIP: Patient Selection, Echocardiographic Parameters and Step-by-Step Intraprocedural TOE Guide  
**A. Squeri**
- 11.54** ASD & PFO: Selection Criteria, Rim Analysis and Step-by-Step Intraprocedural TOE Guide  
**A. Dos Santos Felix**

# SATURDAY NOVEMBER 30, 2024

**12.06** PARAVALVULAR LEAK: Patient Selection, Echocardiographic Parameters and Step-by-Step Intraprocedural TOE Guide. Clinical utility of CT fusion imaging  
**V. Pergola**

**12.18** LEFT ATRIAL APPENDAGE: Patient selection, echocardiographic parameters and step-by-step intraprocedural TOE guidance  
**V. Cammalleri**

**12.30** VALVES PROSTHESES: State-of-the-art in echocardiographic evaluation of structural and non-structural prosthetic dysfunction  
**C. Greco**

## SESSION 3 CLINICAL CASES BASED SESSION: COMPLEX CASES IN PERCUTANEOUS PROCEDURES

*Chairs:* **M. Vannan**

**12-50-13.15**

- **1 CASE:** **A. Squeri**
- **2 CASE:** **V. Cammalleri**
- **3 CASE:** **V. Pergola**
- **4 CASE:** **C. Fiore**

**13.15** Reduced and preserved ejection fraction heart failure: role of ARNI and SGLT2-i in light of the latest guidelines  
**G. Cagnazzo**

**13.30** Light Lunch

## SESSION 4 HANDS-ON

**14.30-18.30**

- **Room 1:** Workshop Philips  
**H. Mahmoud-Elsayed, A. Squeri, S. Suma, C. Fiore**
- **Room 2:** Workshop GE  
**M. Tomaselli, T. Viva, C. Fiore, V. Cammalleri**
- **Room 3:** Workshop Siemens  
**M.A. Vannan**

## PROGRAM WORKSHOPS:

- Mitral valve disease: methods of acquisition, optimization, post-processing and quantitative analysis on dedicated software of mitral pathologies
- Structural heart disease: methods of acquisition, optimization, post-processing and analysis of ASD, LAA, paravalvular leaks. Clinical cases

**18.30** Take home message

# FACULTY

**Lorenzo BERTINI**, *Lecce*

**Giuseppe CAGNAZZO**, *Lecce*

**Valeria CAMMALLERI**, *Roma*

**Fausto CASTRIOTA**, *Cotignola, Ra*

**Alex DOS SANTOS FELIX**,  
*Rio de Janeiro, Brasil*

**Khalil FATTOUCH**, *Palermo*

**Corrado FIORE**, *Lecce*

**Cosimo GRECO**, *Lecce*

**Paolo IZZO**, *Bari*

**Patrizio LANCELLOTTI**, *Liege, Belgium*

**Laura Anna LEO**, *Lugano, Svizzera*

**Hani MAHMOUD-ELSAIED**, *Aswan, Egypt*

**Francesco MANGINI**, *Brindisi*

**Alfredo MARCHESE**, *Bari*

**Alexander MLADENOV**, *Berlin, Germany*

**Ozge OZDEN**, *Istanbul, Turkey*

**Domenico PAPARELLA**, *Bari*

**Annalisa PASQUINI**, *Roma*

**Valeria PERGOLA**, *Padua*

**Giuseppe SANTARPINO**, *Lecce*

**Mario SIRO BRIGIANI**, *Bari*

**Luigi SPECCHIA**, *Lecce*

**Giuseppe SPEZIALE**, *Bari*

**Angelo SQUERI**, *Cotignola, Ra*

**Sergio SUMA**, *Parma*

**Frank TIMMERMANS**, *Gent, Belgium*

**Michele TOMASELLI**, *Milan*

**Mani VANNAN**, *Atlanta, Usa*

**Tommaso VIVA**, *Milan*



## MICS Advanced Echo School

is promoted by



## GENERAL INFORMATION

### VENUE

**Conference Area**

**Città di Lecce Hospital**

Strada Provinciale per Arnesano km 4

73100 Lecce (IT)

### REGISTRATION

The Course has a limited number.

The Registration Fee is:

**€ 750,00** (vat included) for regular fee

**€ 500,00** (vat included) for Medical Student.

For further information please contact the Organizing Secretariat sending your CV at [mics@mitralacademy.it](mailto:mics@mitralacademy.it)

### CME PROVIDER

**GVM Campus (6028)**

### CME CREDITS

The Course has been assigned n. 16 Italian CME credits for Physicians (Cardiology, Cardiac Surgery, Anaesthesia and Resuscitation)

**Training objective:** Technical-professional contents (knowledge and expertise) specific for each profession, specialisation and ultra-speciality activity.

### ORGANIZING SECRETARIAT

**ADB Eventi&Congressi**

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