



MICS

Minimally Invasive & Catheter Solutions

Advanced Echo School

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SCIENTIFIC BOARD

Giovanni **LA CANNA**

Patrizio **LANCELLOTTI**

Angelo **SQUERI**

Mani A. **VANNAN**

November 29-30, 2024

Conference Area

Città di Lecce Hospital

Strada Provinciale per Arnesano km 4

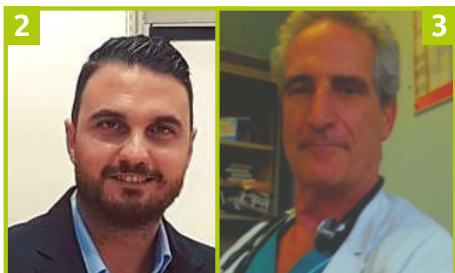
LECCE (IT)



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1 / GIUSEPPE SPEZIALE

Vice President GVM Care&Research



Course Director

2 / CORRADO FIORE

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



Scientific Board

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Head of Applied Echocardiographic Diagnostic Unit, San Raffaele Institute, Milan (Italy)

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)



6 / MANI A. VANNAN

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

Event endorsed by



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 Healthineers) 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 Healthineers
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** The role of 2D/3D TEE in mitral valve endocarditis: from native and prosthetic IE to NBTE
G. La Canna
- 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 Healthineers
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*

Giovanni LA CANNA, *Milan*

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*

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

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

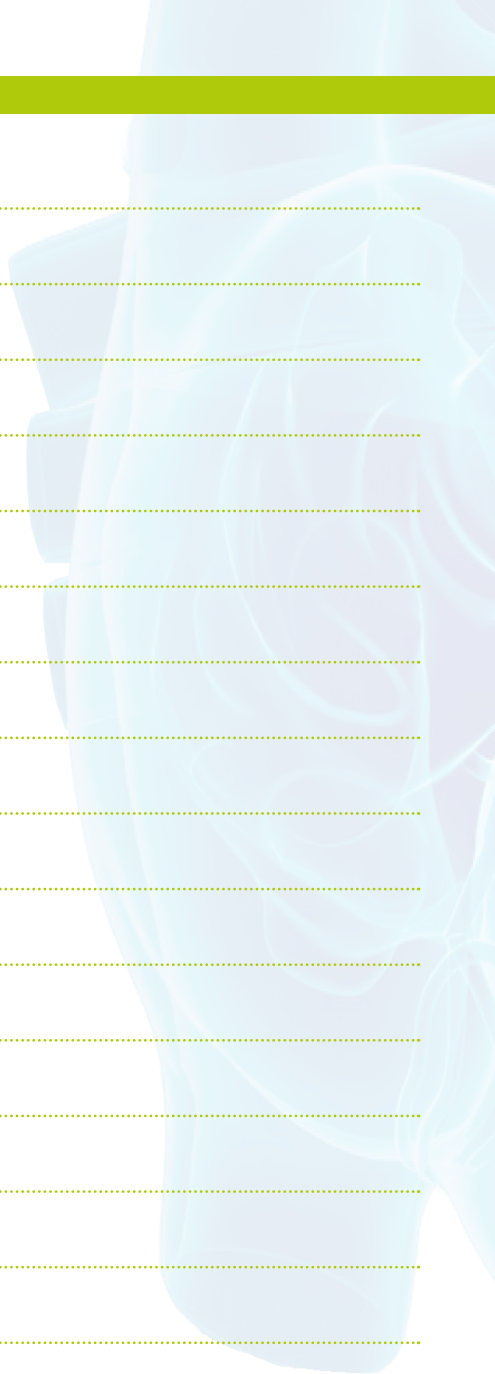
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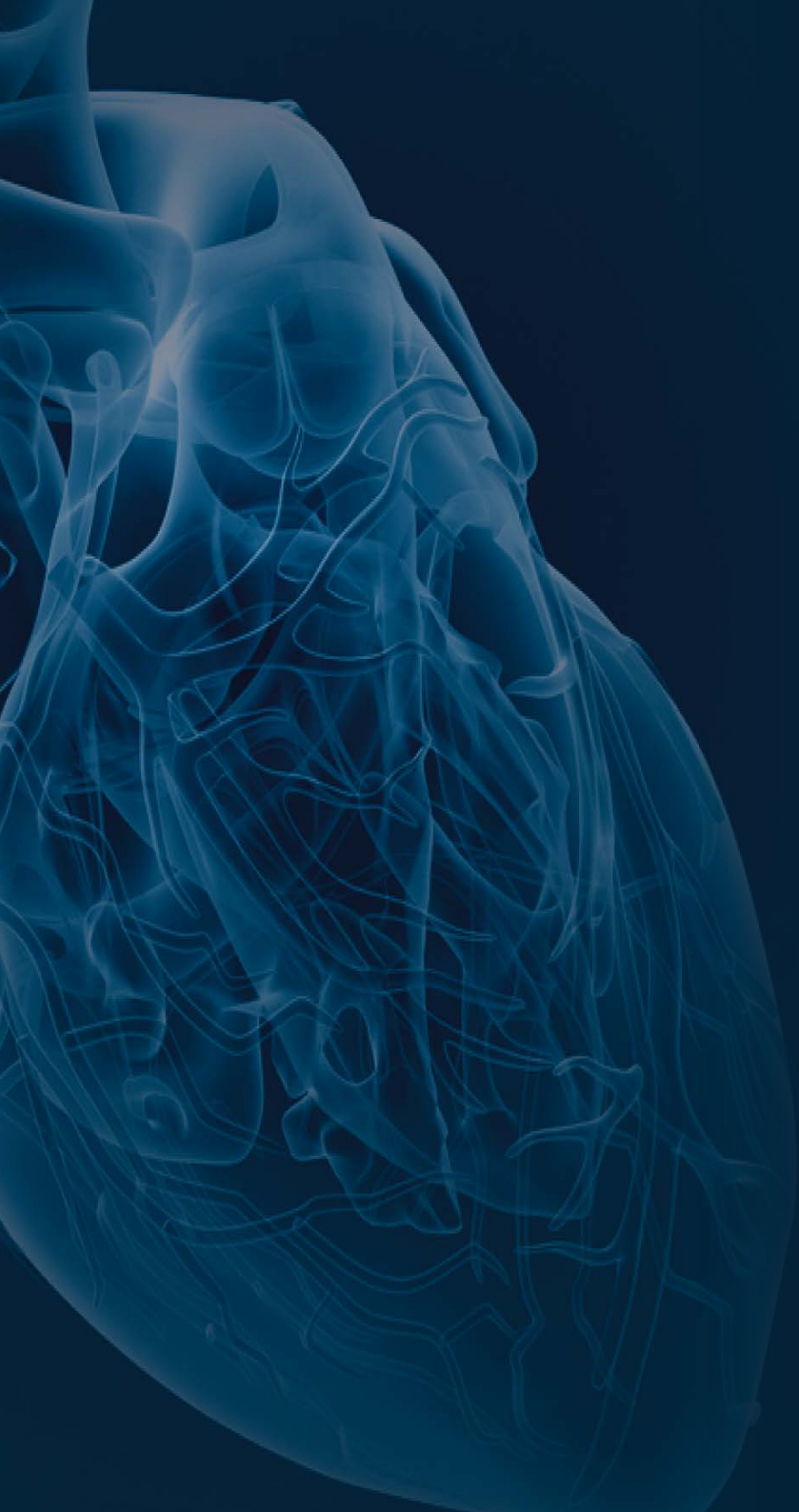
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& Catheter Solutions