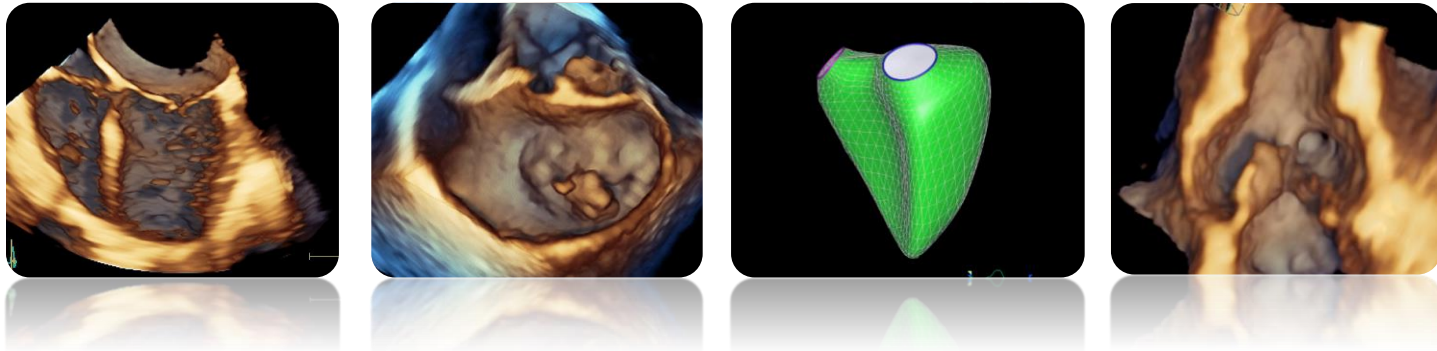


# MEDICAL TRAINING CONSULTANCY PRESENTS



## WHY AND HOW TO IMPLEMENT 4D TTE AND 4DTEE IN THE ROUTINE OF THE ECHOCARDIOGRAPHY LABORATORY

**4D TTE and 4DTEE practical course with live scanning and hands-on sessions on workstations**

**Printing of Program and Collateral Materials in Progress**

**Nov 2017**

## **COURSE OVERVIEW**

A basic and advanced interactive course about 4D echocardiography using GE and Philips scanners, and TomTec workstations to foster the implementation of 4D echocardiography imaging in the daily routine of the echo labs.

This course includes live scanning sessions with models and expert guided hands-on sessions on workstations.

## **WHO SHOULD YOU ATTEND**

This activity is designed for cardiologists, cardiac surgeons, interventional cardiologists, anesthesiologists, sonographers, who require advanced training in 4D TTE and 4D TEE, and for those who want to understand the added value of 4D echocardiography to understand the anatomy and pathophysiology in various heart diseases and guide surgical and interventional procedures.

## **LEARNING OBJECTIVES**

Upon completion of this program, participants will be better able to:

- Understand the added value of 4D echocardiography to assess the anatomy and the pathophysiology of the various heart diseases and be able to incorporate its use in the daily practice of the echo lab
- Integrate 4D echocardiography information in the clinical decision making
- Assess cardiac chamber geometry and function using 4D echocardiography
- Use 4D echocardiography to perform quantitative analysis of heart valve morphology and function
- Define the most important clinical uses of 4D TTE and TEE
- Understand the role of 4D echocardiography in structural heart disease interventions
- Recognize the role of 4D echocardiography to assess the most common congenital heart defects

# SCIENTIFIC PROGRAM

## Thursday, April 5th, 2018

08.30 - 09.00 Registration/ coffee/ snacks  
09.00 - 09.30 Basics of 4D echocardiography (Luigi Badano)  
09.30 - 10.00 4D data sets: acquisition, display and post-processing (Denisa Muraru)  
10.00 - 10.30 Platinum speaker  
10.30 - 11.00 Coffee  
11.00 - 11.45 Live session I: Multiplane and 4D acquisitions (live, full-volume, zoom, color) (All)  
11.45 - 12.30 Workstation Session: AFI 2D & Tri-Plane  
12.30 - 01.30 Lunch  
01.30 - 14.00 Mitral valve (Luigi Badano)  
14.00 - 14.30 Aortic valve (Denisa Muraru)  
14.30 - 15.00 Tricuspid valve (Luigi Badano)  
15.00 - 15.30 Coffee  
15.30 - 16.30 Live session II: Image acquisition: heart valves (All)  
16.00 - 17.15 Workstation: Valve quantitation

## Friday, April 6th, 2018

08.30 - 09.00 Registration/ coffee/ snacks  
09.00 - 09.30 Left ventricle (Luigi Badano)  
09.30 - 10.00 Right ventricle (Denisa Muraru)  
10.00 - 10.30 AFI and 4D data acquisition during stress (Luigi Badano)  
10.30 - 11:00 Coffee  
11:00 - 11.30 Left atrium (Denisa Muraru)  
11.30 -12:30 Live session: left ventricular data set acquisition (All)  
12.30 - 13.30 Lunch  
13.30 - 14.00 4D-Strain analysis (Denisa Muraru)  
14.00 - 15.00 Workstation session: post-processing and quantitation of left ventricular data sets (All)  
15.30 - 16.00 Coffee  
16.00 - 16.45 Live session: right ventricular data set acquisition (All)  
16.45 - 17.15 Workstation Session: post-processing and quantitation of right ventricular data sets (All)

## Saturday, April 7th, 2018

08.30 - 09.00 Registration/ coffee/ snacks

09.00 – 09.30 Current status of 4D TEE/TTE: indications and guidelines (Luigi Badano)

09.30 - 10.00 Data Acquisition in 4D-TEE (Denisa Muraru)

10.00 –10.30 Workstation session: 4D TEE data set navigation (All)

10.30 – 11.00 Coffee

11.00 – 11.30 Atrial septal defects and PFO closure (Denisa Muraru)

11:30 – 12.00 MitraClip procedure (Luigi Badano)

12.00 - 12.30 Left atrial appendage closure (Denisa Muraru)

12.30-13:30 Lunch

13.30-14.00 Congenital diseases /masses

14.00 - 15:00 Workstation Session: aortic annulus sizing for TAVR, mitral valve analysis for Mitral Clip, quantification of LAA, ASD, perivalvular leak (All)

15.00 - 16.30 The added value of 4D echocardiography. Clinical cases presented by the Faculty and attendees (All)

## KEYNOTE SPEAKERS



**Luigi P. Badano, MD, PhD, FESC, FACC**

**Prof Badano** is Professor of cardiovascular imaging at the University of Padua School of Medicine, Padua, Italy and currently serves as the Director of the Echocardiography laboratory.

Prof. Badano's clinical interests include native and prosthetic valvular heart disease, right ventricular and atrial function, with research interests in three-dimensional and deformation imaging echocardiography and cardiac mechanics.

Prof Badano is a member of the Italian Society of Cardiology, Italian Society of Cardiovascular Ultrasound, European Society of Cardiology, European Association of Cardiovascular Imaging, American College of Cardiology and the American Society of Echocardiography (ASE), and a fellow of the European Society of Cardiology and the American College of Cardiology

Prof Badano is a regular lecturer at ESC, ACC, ASE and EuroEcho scientific meetings. He has more than 260 peer reviewed publications, authored 7 books about echocardiography and cardiovascular imaging and is past-president of the European Association of Cardiovascular Imaging. He is honorary member of the British Society of Echocardiography, Romanian, Hungarian and Korean societies of cardiology. In 2013, he was awarded with the silver medal of the European Society of Cardiology for his clinical and research activity and his commitment as President of the European Association of Cardiovascular Imaging.



**Dr. Denisa Muraru**

**Denisa Muraru** is a cardiologist, currently working as a researcher and echocardiographer at the University of Padua (Italy). She graduated from the “Carol Davila” University of Medicine in Bucharest (Romania). In 2011, she moved to the University of Padua (Italy) in order to perform clinical research in the field of 3D echocardiography and received the PhD degree in 2013. She has co-authored 85 papers, 40 textbook chapters and more than 160 abstracts. She has been co-author and reviewer for several EACVI recommendation papers. She is a regular invited speaker at the ESC Congress, EuroEcho Imaging Congress and EACVI Teaching Courses, and is co-Director of several courses and scientific meetings on 3D echocardiography organized by the University of Padua. She is member of Editorial Board of European Journal - Cardiovascular Imaging and Journal of American Society of Echocardiography. She has been elected Councilor in the European Association of Cardiovascular Imaging (EACVI) Board 2016-2018 and chairs the EACVI Education Committee.

## LOCATION

Gefinor Rotana  
Beirut/ Lebanon

## HOTEL ACCOMODATION

Rooms at discounted prices are available

## EVENT FEES

\$1500

Limited seats  
Group and Early bird discount available

**For Registration please contact:**  
beirut@echotraining.net

## ACCREDITATION

To be announced

## FOOD AND BEVERAGES

Snacks, coffee, and lunch are offered

## PARKING

Valet parking available

## **Sponsors**

TBA

