

EAE Teaching Course

Teaching course with live demonstrations

“New echocardiographic techniques for myocardial function imaging”

5 – 7 April, 2012
Inter EXPO Center, Sofia, Bulgaria

SCIENTIFIC PROGRAM

Thursday, April 5th

- Welcome and Introductory Lecture**
15:30 -15:45 **Imaging the heart with ultrasound**
K. Hristova
- 15:45- 16:00 **Opening ceremony**
Tzvetana Katova, Luigi Badano, Assen Gudev
- 16:00-18:50 **Basics of Myocardial Function Imaging**
Chairpersons: Luigi Badano, Yoto Yotov
- 16:00-16:20 From fibre shortening to ejection
F Rademakers
- 16:20-16:40 How to measure myocardial deformation by ultrasound?
J D'hooge
- 16:40-17:00 How to do it in the clinic: Normal patterns and pitfalls.
JU Voigt
- 17:00-17:20 Measuring myocardial deformation in 3Dimensions.
L Badano
- 17:20-17:40 Magnetic Resonance Imaging: Competitive or Complementary?
F Rademakers
- 17:40-17:50 Discussion
- 18:00-20:00 Welcome drink

Friday, April 6th

- 8:30 -10:00 **Imaging Coronary Artery Disease: Myocardial Function by Echo**
Chairpersons: Jens Uwe Voigt, Krasimira Hristova
- 8:30 - 8: 50 Beyond wall thickening: Deformation patterns in coronary artery disease.
JU Voigt
- 8:50- 9:10 Global and regional function in patients with AMI.
K Hristova
- 9:10- 9:30 Stress echo, infarction and reperfusion injury.
A Neskovic
- 9:30-9:50 What does 3D add to stress echocardiography?
L Badano
- 9:50-10:00 Discussion

10:00-10:30 Coffee break

10:30-12:00 **Function Imaging of the Right Ventricle**
Chairpersons: Frank Rademakers, Yoto Yotov

- 10:30-10:50 How to assess RV function in the clinic?
JU Voigt
- 10:50-11:10 RV function in congenital heart diseases and pulmonary hypertension
R Jurcut
- 11:10-11:30 RV function in systemic hypertension
K Hristova
- 11:30-11:50 RV and pulmonary circulation during exercise.
A La Gerche
- 11:50-12:00 Discussion

12:00-13:00 **Live case demonstration I**
Chairpersons: Alexander Neskovic, Tzvetana Katova

- 12:00-12:20 Case 1. Regional Dysfunction by Speckle tracking
B Popescu
- 12:20-12:40 Case 2. Global and Regional function by 3Dechocardiography
L Badano
- 12:40-13:00 Case 3. Asynchrony assessment
JU Voigt

13:00-14:00 Lunch

14:00-15:30 **Cardiomyopathy and CRT**
Chairpersons: Luigi Badano, Krasimira Hristova

- 14:00-14:20 Prognostic Value of Deformation Imaging in Ischemic cardiomyopathy
T Edvardsen
- 14:20-14:40 LV twist in physiology and disease
B Popescu
- 14:40-15:00 Dilated Cardiomyopathy: How to assess dyssynchrony in 2D
JU Voigt
- 15:00-15:20 Dilated Cardiomyopathy: How to assess dyssynchrony in 3D
S Kapetanakis
- 15:20-15:30 Discussion

15:30-16:00 Coffee break

16:00-17:30 **Assessing Hemodynamics and Ventriculo-Arterial Coupling**
Chairpersons: Thor Edvardsen, Vera Yotova

- 16:00-16:20 Quantifying myocardial function in valvular heart disease
E Kinova
- 16:20-16:40 3D echo to assess congenital heart disease in children
I Velkovski
- 16:40-17:00 Speckle tracking echocardiography to assess patients with TGA
R Marinov
- 17:00-17:20 Ventriculo-arterial coupling: Clinical tools and diagnostic indications
A Fraser
- 17:20-17:30 Discussion

19:00-23:00 Gala dinner

Saturday, April 7th

8:30-10:00 Hypertrophy, Diastole & Atrial Deformation
Chairpersons: Alan Fraser, Tzvetana Katova

- 8:30-8:50 Diastolic Function: What is it and how to describe it best ?
JU Voigt
- 8:50-9:10 Diastolic Stress Testing
A La Gerche
- 9:10-9:30 LV function in hypertrophic disease
V Yotova
- 9:30-9:50 Assesment of left atrial function - Does it offer added value?
B Popescu
- 9:50-10:00 Discussion

10:00-10:30 Coffee break

10:30-12:20 LV Function Assessment - With and without Contrast
Chairpersons: Aleksandar Neskovic, Tzvetana Katova

- 10:30-10:50 Myocardial Function Imaging in Private Practice
S Marchev
- 10:50-11:10 Quantifying LV Function - How good are we?
A Fraser
- 11:10-11:30 Contrast echo on evaluation of cardiac function -basic principles
Y Yotov
- 11:30-11:50 The role of Contrast enhanced 3D echocardiography
S Kapetanakis
- 11:50-12:10 A new approach to assess intraventricular flow
JU Voigt
- 12:10-12:20 Discussion

12:20-13:20 Live case demonstration II
Chairpersons: Bogdan Popescu, Sotir Marchev

- 12:20-12:40 Case 1. Assessing Diastolic Function
V Yotova
- 12:40-12:50 Case 2. Assessing Atrial Function
B Popescu
- 13:10-13:30 Case 3. Assessing RV Function
Y Yotov

13:30-13:40 Closing Remarks, Farewell
K Hristova, JU Voigt