EAE Teaching Course
Teaching course with live demonstrations

“New echocardiographic techniques for myocardial function imaging”
5 – 7 April, 2012
Inter EXPO Center, Sofia, Bulgaria

Organized with the Bulgarian Working Group on Echocardiography

Course Directors: K Hristova, JU Voigt
Executive Directors: T Katova, L Badano, Y Yotov

International Speakers:
Luigi Badano, Udine, Italy, (President of EAE)
Jens-Uwe Voigt, Leuven, Belgium (Board member of EAE)
Bernard Cosyns, Liege, Belgium (Chair of EAE)
Jan D’hooge, Leuven, Belgium
Frank Rademakers, Leuven, Belgium
Aleksandar Neskovic, Belgrade, Serbia (Board member of EAE)
Bogdan Popescu, Bucharest, Romania (Secretary of EAE)
Thor Edvardsen, Oslo, Norway (Member of Scientific Committee of EAE)
Ande La Gerche, Leuven, Belgium
Ruxandra Jurcut, Bucharest, Romania

Local Faculty
(speakers, chairpersons, live demonstrations):
Tsvetana Katova, Sofia, Bulgaria
Yoto Yotov, Varna, Bulgaria
Vera Yotova, Sofia, Bulgaria
Ivan Velkovski, Sofia, Bulgaria
Elena Kinova, Sofia, Bulgaria
Krasimira Hristova, Sofia, Bulgaria
Sotir Marchev, Pleven, Bulgaria
Rumen Marinov, Sofia, Bulgaria
Main topics:
The course will be designed for cardiologist in training and for cardiologist in practice, working in the field of echocardiography and tissue Doppler imaging, to provide a high quality and authoritative review in the field of myocardial deformation imaging:

- Doppler and Speckle Tracking methods
- 3D Deformation Imaging
- Left Ventricular Function
- Right Ventricular Function
- Cardiac Function under Different Loading conditions
- Cardiac Resynchronization Therapy
- Myocardial Deformation Imaging in the Patients with Heart Failure
- MDI and Valvular Heart Diseases
- Contrast Echocardiography
- Clinical Applications and Cases

All these topics will be addressed by state-of-the-art lectures and two hours of live case demonstrations.

- to assess myocardial function
- to assess patients with heart failure
- to quantify severity of valvular heart disease
- to assess right heart function

The course will cover the most important aspects of tissue Doppler imaging, three dimensional echocardiography, contrast echocardiography, and speckle tracking echocardiography

Discussion involving all participants will be encouraged.

The course fees:
- for cardiologist in practice is 150 Euro
- for cardiologist in training is 100 Euro

The fee includes participation in all the scientific sessions, access to the exhibition area, the binder containing all the recommendation documents issued by the EAE, coffee breaks and refreshments, lunch and Gala dinner (on Friday).

The course will be reviewed for accreditation by the European Board for Accreditation in Cardiology (EBAC).

The official language of the course is English.
SCIENTIFIC PROGRAM

Thursday, April 5th

15:30 -15:45  Welcome and Introductory Lecture
Imaging the heart with ultrasound
K. Hristova

15:45- 16:00  Opening ceremony
Tzetana 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
                B Cosyns
   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: Assessment by Strain imaging of arterial wall
                A Fraser
   17:20-17:30  Discussion

19:00-23:00  Gala dinner
**Saturday, April 7th**

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<th>Time</th>
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<tr>
<td>8:30-10:00</td>
<td><strong>Hypertrophy, Diastole &amp; Atrial Deformation</strong></td>
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<td>Chairpersons: Alan Fraser, Tzvetana Katova</td>
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<td>8:30-8:50</td>
<td>Diastolic Function: What is it and how to describe it best?</td>
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<td>JU Voigt</td>
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<td>8:50-9:10</td>
<td>Diastolic Stress Testing</td>
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<td>A Neskovic</td>
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<td>9:10-9:30</td>
<td>LV function in hypertrophic disease</td>
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<td>9:30-9:50</td>
<td>Assessment of left atrial function - Does it offer added value?</td>
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<td>9:50-10:00</td>
<td>Discussion</td>
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<tr>
<td>10:00-10:30</td>
<td><strong>Coffee break</strong></td>
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<td>10:30-12:20</td>
<td><strong>LV Function Assessment - With and without Contrast</strong></td>
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<td>Chairpersons: Aleksandar Neskovic, Tzvetana Katova</td>
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<td>10:30-10:50</td>
<td>Myocardial Function Imaging in Private Practice</td>
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<td>10:50-11:10</td>
<td>Quantifying LV Function - How good are we?</td>
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<td>11:10-11:30</td>
<td>Contrast echo on evaluation of cardiac function - basic principles</td>
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<td>11:30-11:50</td>
<td>The role of Contrast enhanced 3D echocardiography</td>
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<td>11:50-12:10</td>
<td>A new approach to assess intraventricular flow</td>
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<td>JU Voigt</td>
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<td>12:20-13:20</td>
<td><strong>Live case demonstration II</strong></td>
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<td>Chairpersons: Bogdan Popescu, Sotir Marchev</td>
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<td>12:20-12:40</td>
<td>Case 1. Assessing Diastolic Function</td>
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<td>12:40-12:50</td>
<td>Case 2. Assessing Atrial Function</td>
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<td>13:30-13:40</td>
<td><strong>Closing Remarks, Farewell</strong></td>
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