**EAE Educational Course**
Organized with the Romanian Working Group on Echocardiography

**Clinical applications of echocardiography: old and new**
Teaching course with live demonstrations

Bucharest, Romania, 15-17 April 2010
National Art Museum, Auditorium Hall

Register here

**Course Directors:**
Carmen Ginghină, Bucharest, Romania (Past-President, Romanian Society of Cardiology)
Bogdan A. Popescu, Bucharest, Romania (Board member, EAE)
Jose Zamorano, Madrid, Spain (President of EAE)

**International Speakers:**
Luigi Badano, Udine, Italy (President Elect of EAE)
Alan Fraser, Cardiff, UK (Past-President of EAE)
Patrizio Lancellotti, Liege, Belgium (Treasurer of EAE)
Aleksandar N. Neskovic, Belgrade, Serbia (Board member, EAE)
Ehud Schwammenthal, Cardiac Rehabilitation Institute, Tel Hashomer, Israel
Jens-Uwe Voigt, Leuven, Belgium (Board member, EAE)

**Local Faculty (speakers, chairpersons, live demonstrations):**
Eduard Apetrei, Institute of Cardiovascular Diseases, Bucharest, Romania
Daniela Bedeleanu, Heart Institute, Cluj-Napoca, Romania
Mircea Cinteză, University Hospital, Bucharest, Romania
Ioan M. Coman, Institute of Cardiovascular Diseases, Bucharest, Romania
Dragoș Cozma, **Institute of Cardiovascular Diseases, Timisoara, Romania**
Doina Dimulescu, Elias Hospital, Bucharest, Romania
Maria Dorobantu, Emergency Hospital, Bucharest, Romania
Adriana Ilieșiu, Caritas Hospital, Bucharest, Romania
Ruxandra Jurcuț, Institute of Cardiovascular Diseases, Bucharest, Romania
Dragoș Vinereanu, University Hospital, Bucharest, Romania
Objectives:

This course has been designed both for cardiologists in training and for cardiologists in practice, to provide a high-quality and authoritative review of the following topics:

- Basics of transthoracic echocardiography (including machine settings and possible pitfalls)
- Assessment of ventricular function in different disease settings
- Integrated Doppler approach to assessing hemodynamics
- The “state of the art” of transthoracic echocardiography:
  - 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 also cover the most important aspects of tissue Doppler imaging, three-dimensional echocardiography, contrast echocardiography, and speckle tracking echocardiography

All these topics will be addressed by state-of-the-art lectures and four hours of live case demonstrations (with scanning of patients by members of the faculty)

Discussion involving all participants will be encouraged.

The course fee for cardiologists in practice is 150 Euro. The fee for cardiologists in training is 100 Euro (proof of training status should be provided from the Head of training programme).

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).

This course will be reviewed for accreditation by the European Board for Accreditation in Cardiology (EBAC). The number of credits will be announced as soon as possible on the EAE Web Site.

The official language of the course is English.
Programme

Thursday, April 15

13:50 – 14:00 Opening of the course - Welcome
Carmen Ginghină, Bogdan A. Popescu, Jose Zamorano

14:00 – 15:30 Introduction to echocardiography
Chairpersons: Jose Zamorano, Eduard Apetrei
14:00 – 14:20 How to set-up the echo lab? Luigi Badano
14:20 – 14:40 How to set-up the echo machine? Jens-Uwe Voigt
14:40 – 15:00 How to perform a standard echo examination? Alan Fraser
15:00 – 15:20 Pitfalls and how to avoid them. Ioan M. Coman
15:20 – 15:30 Discussion / Questions from the audience

15:30 – 16:00 Coffee break

16:00 – 18:00 Assessment of the left ventricle
Chairpersons: Patrizio Lancellotti, Mircea Cinteza
16:30 – 16:50 Is normal ejection fraction equivalent to normal systolic function? Dragoș Vinereanu
16:50 – 17:10 Assessment of LV geometry and function: the added value of 3D echo. Luigi Badano
17:10 – 17:30 An integrated approach to study LV diastolic function. Adriana Ilieșiu
17:30 – 17:50 Hypertensive heart disease and failure. Alan Fraser
17:50 – 18:00 Discussion / Questions from the audience

Friday, April 16

09:00 – 10:30 Coronary artery disease and cardiomyopathy
Chairpersons: Carmen Ginghină, Jose Zamorano
09:00 – 09:20 Bedside echo assessment of patients with myocardial infarction. Maria Dorobanțu
09:20 – 09:40 Assessment of ischemia and viability after myocardial infarction. Jens Uwe Voigt
09:40 – 10:00 Dilated cardiomyopathy: diagnosis, prognosis, follow-up - the role of echo. Aleksandar N. Neskovic
10:00 – 10:20 Assessment of cardiac dyssynchrony and selection of candidates for CRT. Patrizio Lancellotti
10:20 – 10:30 Discussion / Questions from the audience

10:30 – 11:00 Coffee break

11:00 – 13:00 Practical session 1 – live scanning of patients
Chairpersons: Alan Fraser, Dragoș Vinereanu
Transthoracic echocardiography assessment of LV function.
Scanning will be performed in the lecture room by members of the faculty, with questions and discussion involving all participants.

13:00 – 14:00 Lunch

14:00 – 15:30 Valvular heart disease
Chairpersons: Aleksandar N. Neskovic, Daniela Bedeleanu
14:00 – 14:20 Echocardiographic assessment of mitral stenosis. Bogdan A. Popescu
14:20 – 14:40 Echocardiographic assessment of mitral regurgitation. Patrizio Lancellotti
14:40 – 15:00 Advanced hemodynamic assessment of aortic stenosis. Ehud Schwammenthal
15:00 – 15:20 How to assess aortic regurgitation? Patrizio Lancellotti
15:20 – 15:30 Discussion / Questions from the audience

15:30 – 16:00 Coffee break
16:00 – 18:00  **Practical session 2 – live scanning of patients**  
**Chairpersons:** Luigi Badano, Bogdan A. Popescu

Transthoracic echocardiography assessment of patients with heart valve disease and ischaemic heart disease. Scanning will be performed in the lecture room by members of the faculty, with questions and discussion involving all participants.

20:00  **Gala Dinner**

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**Saturday, April 17**

09:00 – 10:30  **Important, yet neglected topics**  
**Chairpersons:** Ehud Schwammenthal, Adriana Ilieșiu

- 09:00 – 09:20  The left atrium – how can echo help us? **Dragoș Cozma**
- 09:20 – 09:40  The right ventricle – echo update. **Jens-Uwe Voigt**
- 09:40 – 10:00  Respiratory maneuvers in echocardiography: clinical applications. **Carmen Ginghină**
- 10:00 – 10:20  Pulmonary embolism: is echocardiography of any use? **Aleksandar N. Neskovic**
- 10:20 – 10:30  Discussion / Questions from the audience

10:30 – 11:00  **Coffee break**

11:00 – 12:15  **Three-dimensional echocardiography**  
**Chairpersons:** Jens-Uwe Voigt, Doina Dimulescu

- 11:00 – 11:20  (Why) are cardiac valves inherently three-dimensional? **Ehud Schwammenthal**
- 11:20 – 11:40  Three-dimensional assessment of valvular heart disease. **Jose Zamorano**
- 11:40 – 12:00  Three-dimensional **stress echocardiography. Luigi Badano**
- 12:00 – 12:15  Discussion / Questions from the audience

12:15 – 12:30  **Coffee break**

12:30 – 14:00  **Advances in echocardiography**  
**Chairpersons:** Patrizio Lancellotti, Dragoș Cozma

- 12:30 – 12:50  Contrast echocardiography – current status and indications. **Jose Zamorano**
- 12:50 – 13:10  Speckle tracking echocardiography: principles and applications. **Bogdan A. Popescu**
- 13:10 – 13:30  Ventricular-arterial coupling - why do we have to understand this when we assess cardiac function? **Alan Fraser**
- 13:50 – 14:00  Discussion / Questions from the audience

14:00  **Closing remarks.**  
**Carmen Ginghină, Bogdan A. Popescu, Jose Zamorano**