



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

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 Cintează, 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 Dorobanțu, 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 Cintează
16:30 – 16:50 Is normal ejection fraction equivalent to normal systolic function? **Dragoş 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 Ilieşiu**
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 Dorobanţu**
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, Dragoş 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**

Saturday, April 17

09:00 – 10:30 **Important, yet neglected topics**

Chairpersons: Ehud Schwammenthal, Adriana Ilieşiu

09:00 – 09:20 The left atrium – how can echo help us? **Dragoş 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, Dragoş 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**

13:30 – 13:50 Anatomical considerations and imaging in candidates for percutaneous aortic valve implantation. **Ehud Schwammenthal**

13:50 – 14:00 Discussion / Questions from the audience

14:00 **Closing remarks.**

Carmen Ginghină, Bogdan A. Popescu, Jose Zamorano