

5th European Echocardiography Course on Congenital Heart Disease



6 – 9 October 2010
UCL Institute of Child Health, London



Course Director: Dr Jan Marek
Course Committee: Dr Folkert Meijboom and Dr Luc Mertens



www.echocardiography-course.com

Dear Colleagues,

The Imaging Working Group of the Association of European Paediatric Cardiology (AEPC) in collaboration with the Working Group of Grown-up Congenital Heart Disease of the European Society of Cardiology (ESC) and the European Association of Echocardiography will organise the 5th European Echocardiography Course in Congenital Heart Disease this time in London, from Wednesday 6th to Saturday 9th October 2010.

The course will provide both theoretical and practical review of echocardiographic techniques used in the current era, including Tissue Doppler Imaging, speckle tracking in both 2D and 3D echocardiography and real time 3D echocardiography.

For the first time, there will be three parallel hands-on sessions on: transthoracic live scanning with patients, transoesophageal scanning with simulators and 3D datasets postprocessing.

As in the previous courses, a forum of distinguished speakers and appreciated teachers from all over Europe and overseas will share their experience with the audience.

The number of participants is limited to 150, therefore we advise applicants to book early to guarantee a place on the course.

Hoping to meet all interested colleagues in London in October.

With Kind Regards,

Jan Marek, Forkert Meijboom and Luc Mertens



Topics

- ▶ Echo-morphological correlates
- ▶ Functional echocardiographic assessment
- ▶ Transoesophageal and intraoperative echocardiography
- ▶ Standardisation of European echocardiographic practise
- ▶ Preparation for the accreditation examination
- ▶ Pulmonary arterial hypertension
- ▶ New echo techniques:
 - ▷ real-time-3D echocardiography
 - ▷ tissue Doppler imaging
 - ▷ strain and strain rate imaging
 - ▷ 2D and 3D speckle tracking



Wednesday 6th October 2010

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|-------------|---|
| 09.00-09.05 | Opening <i>Jan Marek, London</i> |
| 09.05-09.30 | Basic principles of ultrasound imaging <i>Chris de Korte, Nijmegen</i> |
| 09.30-10.00 | Doppler techniques and quantification <i>Bart Bijmens, Barcelona</i> |
| 10.00-10.30 | Image optimisation <i>Jackie McGhie, Rotterdam</i> |
| 10.30-11.00 | <i>Coffee break</i> |
| 11.00-11.20 | Imaging windows & views <i>Luc Mertens, Toronto</i> |
| 11.20-11.50 | Valvular stenosis and regurgitation: assessment of severity <i>Helmut Baumgartner, Muenster</i> |
| 11.50-12.15 | Basics of Real time 3 D echocardiography <i>Jackie McGhie, Rotterdam</i> |
| 12.15-12.35 | Image orientation & how to prepare for the accreditation examination <i>John Simpson, London</i> |
| 12.35-13.30 | <i>LUNCH</i> |
| 13.30-14.30 | Segmental approach to normal and abnormal situs arrangement Morphology: <i>Andrew Cook, London</i> Echocardiography: <i>Jan Marek, London</i> |
| 14.30-15.30 | Atrial communications Morphology: <i>Andrew Cook, London</i> Echocardiography-paediatric: <i>David Coleman, Dublin</i> Imaging & device closure: <i>Manfred Vogt, Munich</i> |
| 15.30-16.00 | <i>Coffee break</i> |
| 16.00-17.00 | Atrioventricular septal defects Morphology: <i>Andrew Cook, London</i> Echocardiography-paediatric: <i>Ian Sullivan, London</i> Echocardiography adult: <i>Jackie McGhie, Rotterdam</i> |
| 17.00-17.45 | Ventricular septal defects Morphology: <i>Andrew Cook, London</i> Echocardiography: <i>Giovanni Di Salvo, Naples</i> |

Thursday 7th October 2010

09.00-09.05 **Opening remarks day 2**

Folkert Meijboom, Utrecht

09.05-10.00 **LV outflow tract obstruction**

Morphology: *Andrew Cook, London*

Echocardiography: *Viktor Tomek, Prague*

10.00-11.00 **RV outflow tract obstruction and DORV**

Morphology: *Andrew Cook, London*

Echocardiography – paediatric and pre-op: *David Coleman, Dublin*

Echocardiography – adult and post-op: *Helmut Baumgartner, Muenster*

11.00-11.30 **Coffee break**

11.30-12.30 **Complete transposition**

Morphology: *Andrew Cook, London*

Echocardiography – pre op and arterial switch: *Manfred Vogt, Munich*

Atrial switch and Rastelli: *Folkert Meijboom, Utrecht*

12.30-13.30 **Congenitally corrected transposition**

Morphology: *Andrew Cook, London*

Echocardiography – pre and post op: *John Simpson, London*

13.30-14.30 **LUNCH**

14.30-15.45 **Functionally single ventricle**

Morphology: *Andrew Cook, London*

Echocardiography – paediatric: *Luc Mertens, Toronto*

Fontan circulation: *Folkert Meijboom, Utrecht*

15.15-16.00 **Coarctation and aortic arch anomalies**

Morphology: *Andrew Cook, London*

Echocardiography – paediatric: *Viktor Tomek, Prague*

Adult case presentation: *Jackie McGhie, Rotterdam*

16.00-16.30 **Coffee break**

Mini symposium on pulmonary hypertension

16.30-17.00 **Pulmonary hypertension in transition: where we are today**

Ingram Schulze-Neick, London

17.00-17.20 **Echocardiography in PAH and congenital heart disease**

Mark Friedberg, Toronto

17.20-17.40 **Follow up in adolescence and adults**

Helmut Baumgartner, Muenster

Friday 8th October 2010

09.00-09.05 **Opening remarks day 3**

Luc Mertens, Toronto

09.05-09.30 Systolic ventricular function – how to assess the left ventricle

Mark Friedberg, Toronto

09.30-10.15 Diastolic ventricular function (restriction x constriction and tamponade)

Luc Mertens, Toronto

10.15-10.40 *Coffee*

Mini symposium on intraoperative echocardiography

10.40-11.00 Indications and techniques used?

Giovanni di Salvo, Naples

11.00-11.20 Interpretation and judgment

Manfred Vogt, Munich

11.20-11.40 Should intraoperative echo be universal and who should do it?

Jan Marek, London

11.40-11.55 View of anaesthetist

Angus McEwan, London

11.55-12.10 View of surgeon

Martin Kostolny, London

12.10-12.30 How we should do it in Europe? Panel discussion

G. di Salvo, M.Vogt, J.Marek, A.McEwan, M.Kostolny

12.30-13.30 *LUNCH*

13.30-15.00 Accreditation examination: examples and test (for EchoOskar award)

John Simpson, London

15.00-17.00 **Hands on session (only if Saturday's session fully booked):**

A. RT-3DE datasets manipulation

B. Transesophageal Echo practising

19.00-23.00 *Social event and announcement of best score of the test examination*

Award of the EchoOskar 2010

Saturday 9th October 2010

Mini symposium advanced functional echocardiography in congenital heart disease

09.00-09.05 **Opening remarks day 4**

Mark Friedberg, Toronto

09.05-09.30 Cardiac mechanics- the basics and its applications

Andrew Taylor, London

09.30-10.00 Effect of loading and geometry on functional parameters

Piet Claus, Leuven

10.00-10.30 Myocardial velocity and deformation assessment- an overview of different techniques

Chris de Korte, Nijmegen

10.30-11.00 *Coffee*

11.00-11.30 Myocardial velocity and deformation imaging: how do the different techniques perform in children?

Luc Mertens, Toronto

11.30-12.00 Myocardial deformation imaging in paediatric cardiac resynchronisation therapy: does it work?

Jan Marek, London

12.00-12.20 "Strain imaging in children: from Tissue Doppler to 3D"

Mark Friedberg, Toronto

12.20-12.40 3D volumetrics in children: new 3-D techniques to quantify ventricular function. Are they useful?

Folkert Meijboom, Utrecht

12.40-12.45 **Closing remarks and adjourn**

Jan Marek, Luc Mertens, Folkert Meijboom

12.45-14.00 *LUNCH*

14.00-16.30 **Hands on sessions**

A. RT-3DE datasets manipulation

B. Transesophageal Echo practising

(simulators: *EchoCom Project*, Leipzig & *HeartWorks Simulation*, London)

C. Transthoracic Echo scanning with patients

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