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

09.00-09.05  Opening
Jan Marek, London

09.05-09.30  Basic principles of ultrasound imaging
Chris de Korte, Nijmegen

09.30-10.00  Doppler techniques and quantification
Bart Bijnens, Barcelona

10.00-10.30  Image optimisation
Jackie McGhie, Rotterdam

10.30-11.00  Coffee break

11.00-11.20  Imaging windows & views
Luc Mertens, Toronto

11.20-11.50  Valvular stenosis and regurgitation: assessment of severity
Helmut Baumgartner, Muenster

11.50-12.15  Basics of Real time 3 D echocardiography
Jackie McGhie, Rotterdam

12.15-12.35  Image orientation & how to prepare for the accreditation examination
John Simpson, London

12.35-13.30  LUNCH

13.30-14.30  Segmental approach to normal and abnormal situs arrangement
Morphology: Andrew Cook, London
Echocardiography: Jan Marek, London

14.30-15.30  Atrial communications
Morphology: Andrew Cook, London
Echocardiography-paediatric: David Coleman, Dublin
Imaging & device closure: Manfred Vogt, Munich

15.30-16.00  Coffee break

16.00-17.00  Atrioventricular septal defects
Morphology: Andrew Cook, London
Echocardiography-paediatric: Ian Sullivan, London
Echocardiography adult: Jackie McGhie, Rotterdam

17.00-17.45  Ventricular septal defects
Morphology: Andrew Cook, London
Echocardiography: Giovanni Di Salvo, Naples
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>09.00-09.05</td>
<td>Opening remarks day 2</td>
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<td></td>
<td><em>Folkert Meijboom, Utrecht</em></td>
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<td>09.05-10.00</td>
<td>LV outflow tract obstruction</td>
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<td>Morphology: <em>Andrew Cook, London</em></td>
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<td>Echocardiography: <em>Viktor Tomek, Prague</em></td>
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<td>10.00-11.00</td>
<td>RV outflow tract obstruction and DORV</td>
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<td>Morphology: <em>Andrew Cook, London</em></td>
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<td>Echocardiography – paediatric and pre-op: <em>David Coleman, Dublin</em></td>
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<td>Echocardiography – adult and post-op: <em>Helmut Baumgartner, Muenster</em></td>
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<td>11.00-11.30</td>
<td>Coffee break</td>
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<td>11.30-12.30</td>
<td>Complete transposition</td>
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<td>Morphology: <em>Andrew Cook, London</em></td>
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<td>Echocardiography – pre op and arterial switch: <em>Manfred Vogt, Munich</em></td>
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<td>Atrial switch and Rastelli: <em>Folkert Meijboom, Utrecht</em></td>
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<td>12.30-13.30</td>
<td>Congenitally corrected transposition</td>
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<td>Morphology: <em>Andrew Cook, London</em></td>
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<td>Echocardiography – pre and post op: <em>John Simpson, London</em></td>
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<td>13.30-14.30</td>
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<td>14.30-15.45</td>
<td>Functionally single ventricle</td>
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<td>Echocardiography – paediatric: <em>Luc Mertens, Toronto</em></td>
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<td>Fontan circulation: <em>Folkert Meijboom, Utrecht</em></td>
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<td>15.15-16.00</td>
<td>Coarctation and aortic arch anomalies</td>
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<td>Morphology: <em>Andrew Cook, London</em></td>
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<td>Adult case presentation: <em>Jackie McGhie, Rotterdam</em></td>
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<td>16.00-16.30</td>
<td>Coffee break</td>
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<td>Mini symposium on pulmonary hypertension</td>
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<td>16.30-17.00</td>
<td>Pulmonary hypertension in transition: were we are today</td>
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<td><em>Ingram Schulze-Neick, London</em></td>
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<td>17.00-17.20</td>
<td>Echocardiography in PAH and congenital heart disease</td>
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<td><em>Mark Friedberg, Toronto</em></td>
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<td>17.20-17.40</td>
<td>Follow up in adolescence and adults</td>
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<td><em>Helmut Baumgartner, Muenster</em></td>
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**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
5th European Echocardiography Course on Congenital Heart Disease

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