Basic Course of Paediatric Echocardiography

Organised by the Imaging Working Group and Cardiovascular Morphology Working Group of the Association for European Paediatric and Congenital Cardiology (AEPC), in collaboration with the Swiss Society for Neonatology.
Basic Course of Paediatric Echocardiography

Dear Colleagues

We invite you and welcome you to the second Basic Course of Paediatric Echocardiography of the AEPC that we have the honour to organize here in Zurich.

Echocardiography is the basic instrument – after clinical examination - in the hands of every paediatric cardiologist. Echocardiography provides fundamental information on the anatomy, physiology and function of the normal and malformed heart. Echocardiography is also gaining importance in the management of transitional haemodynamic status, such as during the neonatal period.

The course maintains the well proved structure of lectures on the basic technical aspects, the systematic approach of imaging the normal heart and an overview of all major congenital heart diseases. The imaging concepts are completed by anatomical specimen from the anatomical collection of the Cardiovascular Pathology Unit of the University of Padua and from the Department of Pathology of the University of Zürich shown in relation with the different echocardiographic views.

In addition this year the course includes some special lectures and a full session on echocardiography of the neonate. Beside projections of typical cases, the course offers also hands-on sessions in both, paediatric and neonatal echocardiography.

A final mock examination will test the efficacy of the course and prepare to the accreditation examination organized by the Association of European Paediatric and Congenital Cardiology.

By offering such a varied and complete program we hope to appeal a large public of young paediatric cardiologists in training, neonatologists, and interested paediatricians.

A. Cavigelli-Brunner

E. Valsangiacomo Büchel

R. Arlettaz Mieth
March 27th - 29th 2014
University Children’s Hospital Zurich, Switzerland

Basic Course of Paediatric Echocardiography

Course directors:
- Prof. E. Valsangiacomo Buechel, Children’s Hospital Zurich
- Prof. R. Arlettaz Mieth, Swiss Society for Neonatology, University Hospital Zurich
- Dr. A. Cavigelli-Brunner, Children’s Hospital Zurich

Guest directors:
- Prof. A. Angelini, Cardiovascular Pathology, University of Padova, Italy
- Prof. O. Milanesi, University of Padova, Italy

Faculty:
- Annalisa Angelini, Padova
- Romaine Arlettaz Mieth, Zurich
- Christine Attenhofer Jost, Zurich
- Anna Cavigelli-Brunner, Zurich
- Joachim Eichhorn, Leverkusen
- Jean-Claude Fauchere, Zurich
- Katharina Hanseus, Lund
- Eero Jokkinen, Helsinki
- Ornella Milanesi, Padova
- Owen Miller, London
- Vincent Muelethaler, Lausanne
- Angela Oxenius, Zurich
- Francesca Pluchinotta, Milano
- Anita Rauch, Zurich
- Brian Stiasny, Zurich
- Emanuela Valsangiacomo Buechel, Zurich
- Roland Weber, Zurich
Basic Course of Paediatric Echocardiography

Programme Thursday March 27th 2014

13.30  Registration
14.00  Welcome adress  Prof. F.H. Sennhauser, Prof. O. Kretschmar,
        Prof. E. Valsangiacomo, Prof. A. Angelini, Prof. R. Arlettaz

Basic applications of echocardiographic imaging and technical aspects
Chairs: O. Milanesi, E. Jokkinnen

14.15  Physics of Ultrasound  F. Pluchinotta
14.35  Two dimensions  E. Jokkinen
14.50  M-Mode  O. Milanesi
15.05  Pulsed and continuous Wave Doppler  K. Hanseus
15.20  Equipment, probes and images  R. Weber
15.35  Questions and discussion: Take home messages  Panel

15.45  Coffee Break

16.15  Echocardiographic quantification  O. Miller
16.30  Measurements and pitfalls  O. Miller
16.45  Ultrasound in neonatology  R. Arlettaz
17.00  Questions and discussion: Take home messages  Panel

18.00  Master Lecture  Prof. C. Attenhofer Jost

18.45  Come together
Social evening
Restaurant uniTurm, University of Zurich, Rämistrasse 71, 8006 Zurich
Programme Friday March 28th 2014

Morning lecture
Chair E. Valsangiacomo

8.30  Update on genetics of congenital heart disease  A. Rauch

Specimens demonstration
Chair: F. Pluchinotta

9.00  The normal heart/sequential analysis  A. Angelini
9.30  Anatomo/pathologic correlation with echocardiography
      - what we see in the different echo projections  A. Angelini
10.00 Specimens of the most common anomalies

10.30 Coffee Break

Echocardiography of the normal heart
Chair: R. Arlettaz, J. Eichhorn

11.00  Echocardiographic appearance of the normal heart  B. Stiasny
11.15  The segmental sequential approach in echocardiography  A. Cavigelli
11.30  How I structure a complete examination  R. Weber
11.45  Questions and discussion: Take home messages  Panel
12.00  Case demonstration (normal)  B. Stiasny

12.45 Lunch

Systematic approach to the echocardiographic diagnosis of congenital heart
disease with anatomic demonstration
Chair: R. Weber, E. Jokkinnen

13.30  Anomalies of the systemic and pulmonary venous return  J. Eichhorn
13.50  The AV-valves  O. Milanesi
14.10  Left to right shunts  J. Eichhorn
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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>14.30</td>
<td><strong>Right heart obstructions</strong></td>
<td>K. Hanseus</td>
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<tr>
<td>14.50</td>
<td><strong>Left heart obstructions</strong></td>
<td>A. Oxenius</td>
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<tr>
<td>15.10</td>
<td><strong>Questions and discussion: Take home messages</strong></td>
<td>Panel</td>
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<td>15.30</td>
<td>Coffee Break and walking to the Echo Lab</td>
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<td>16.00</td>
<td><strong>HANDS-ON SESSION</strong></td>
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<td>16.00 - 18.00</td>
<td>(A) <strong>Pediatric</strong></td>
<td>(B) <strong>Neonatology</strong></td>
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<td>Echo Lab, Children’s Hospital</td>
<td>Neonatology Unit, University Hospital</td>
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<td>18.00</td>
<td><strong>Enjoy the evening in Zurich</strong></td>
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**Programme Saturday March 29th 2014**

Chair  E. Valsangiacomo

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>9.00</td>
<td><strong>Cases demonstration</strong></td>
<td>R. Weber/A. Oxenius/R. Arlettaz</td>
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<tr>
<td>11.30</td>
<td>Coffee Break</td>
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<tr>
<td>10.30 - 11.30</td>
<td><strong>PARALLEL SESSIONS</strong></td>
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<td>(A)</td>
<td><strong>Going complex</strong></td>
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<td></td>
<td>Chair. O. Milanesi, K. Hanseus</td>
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<td>10.30</td>
<td><strong>Conotruncal malformations</strong></td>
<td>O. Miller</td>
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<td>10.50</td>
<td><strong>Single ventricle</strong></td>
<td>E. Jokkinnen</td>
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<tr>
<td>11.10</td>
<td><strong>Disorder of laterality</strong></td>
<td>E. Valsangiacomo</td>
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<td><strong>Questions and discussion: Take home messages</strong></td>
<td>Panel</td>
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<tr>
<td>11.45</td>
<td><strong>Mock examination</strong></td>
<td>O. Miller</td>
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<td>12.15</td>
<td><strong>CME test</strong></td>
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<td>12.30</td>
<td><strong>Course conclusion</strong></td>
<td>E. Valsangiacomo/O. Milanesi</td>
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General Information

Organisation:
FentEvent GmbH, CH-9552 Bronschhofen
mafalda.fent@fent-event.ch
Phone +41 71 911 45 22

Registration deadline: February 28th 2014

Fees | before February 1st | after February 1st |
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AEPC Junior members (<38y) | CHF 250 / € 200 | CHF 350 / € 285 |
Ordinary AEPC members | CHF 450 / € 365 | CHF 550 / € 445 |
SSN members | CHF 450 / € 365 | CHF 550 / € 445 |
Non AEPC members | CHF 600 / € 490 | CHF 700 / € 570 |

Registration fees include the course with electronic script and hands-on sessions, as well as all food and beverages during coffee and lunch breaks. The social evening is included as well.

Credits (requested):
- European Accreditation (EBAC): 12
- Swiss Cardiology Society: 12
- Swiss Society for Neonatology: 12
- Swiss Society of Paediatrics: 12
- Swiss Society of Paediatric Cardiology: 12
Venue

- **Schulungszentrum Bungertweg**
  Entrance: Dolderstrasse / behind Psychotherapy Building
  (Psychosomatische Therapiestation)

Main train station:  
→ Tram 3 direction Klusplatz to Hottingerplatz*
→ Tram 6 direction Zoo to Platte*

Bellevue:  
→ Tram 8 direction Klusplatz to Hottingerplatz*

Stadelhofen:  
→ Tram 15 direction Klusplatz to Römerhof*

*From these stops it is about a 10 minute walk to the children’s hospital

**Kinderspital Zürich / Children’s Hospital**

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