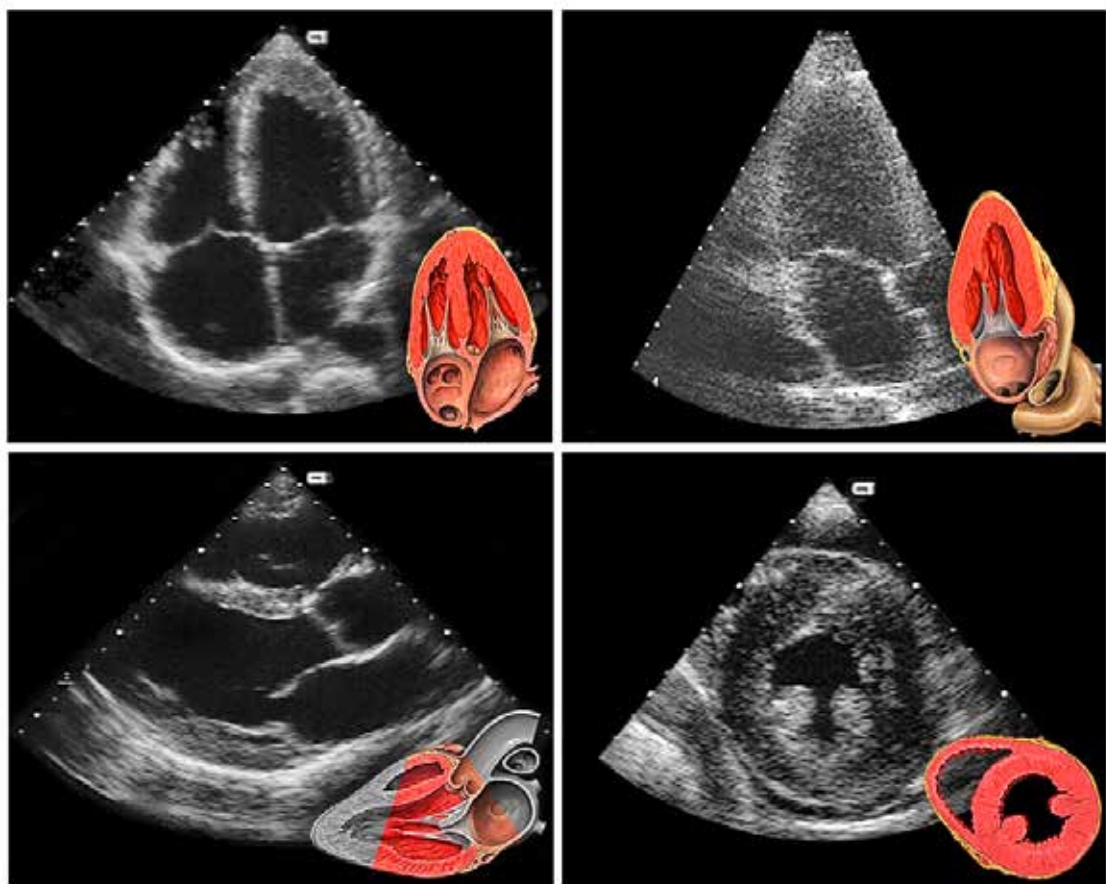


Basic Course of Paediatric Echocardiography



© Patrick J. Lynch, medical illustrator; C. Carl Jaffe, MD, cardiologist



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.



**University of
Zurich** ^{UZH}

KINDERSPITAL ZÜRICH
Universitäts-Kinderkliniken · Eleonorenstiftung



March 27th - 29th 2014

University Children's Hospital Zurich, Switzerland

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. Valsangiacom 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 address** 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. Jokkinen

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

Basic Course of Paediatric Echocardiography

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

14.30	Right heart obstructions	K. Hanseus
14.50	Left heart obstructions	A. Oxenius
15.10	Questions and discussion: Take home messages	Panel

15.30 Coffee Break and walking to the Echo Lab

16.00 - 18.00 **HANDS-ON SESSION**

(A) Pediatric

Echo Lab, Children's Hospital

(B) Neonatology

Neonatology Unit, University Hospital

Enjoy the evening in Zurich

Programme Saturday March 29th 2014

Chair E. Valsangiacomo

9.00 **Cases demonstration**

R. Weber/A. Oxenius/R. Arlettaz

11.30 Coffee Break

10.30 - 11.30 **PARALLEL SESSIONS**

(A) Going complex

Chair. O. Milanesi, K. Hanseus

10.30 **Conotruncal malformations**

O. Miller

10.50 **Single ventricle**

E. Jokkinen

11.10 **Disorder of laterality**

E. Valsangiacomo

(B) Workshop Neonatal Echo

Chair. A. Cavigelli

10.30 **The premature infant with
arterial hypotension**

R. Arlettaz

10.50 **Evaluation of the PDA**

V. Mühlethaler

11.10 **The transitional circulation**

JC. Fauchere

11.30 **Questions and discussion:** Take home messages

Panel

11.45 **Mock examination**

O. Miller

12.15 **CME test**

12.30 **Course conclusion**

E. Valsangiacomo/O. Milanesi

Basic Course of Paediatric Echocardiography

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
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

Under the Patronage of:



AEPC



Schweizerische Gesellschaft
für Pädiatrische Kardiologie
(SGPK)



University of
Zurich ^{UZH}



ssp sgp

SWISS SOCIETY OF PAEDIATRICS
Les Rois et les Arles für Kinder und Jugendliche
Les médecins de vos enfants et adolescents
(medici dei vostri bambini e adolescenti)



Swiss Society of Neonatology

Schweizerische Gesellschaft für Neonatologie
Société Suisse de Néonatalogie
Società Svizzera di Neonatologia
www.neonet.ch



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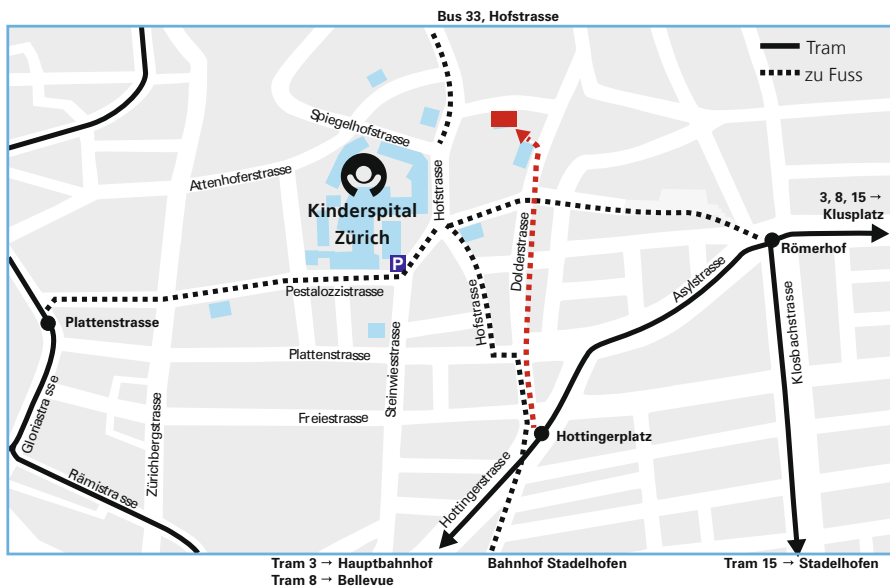
A Registered Branch of the ESC

Sponsors:

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

Universitäts-Kinderkliniken
Steinwiesstrasse 75
8032 Zürich

Phone +41 44 266 71 11
Fax +41 44 266 71 71
www.kispi.uzh.ch