12th European Postgraduate Course in Neonatal and Pediatric Intensive Care Medicine

March 16 – 18, 2017
University Children’s Hospital, Inselspital, Bern, Switzerland
Endorsed by ESPNIC – The European Society of Paediatric and Neonatal Intensive Care

1st Bedside Ultrasound Workshop in Pediatric Emergency, Neonatal and Intensive Care Medicine

March 14 – 15, 2017
Hosted by the Children’s University Hospital of Philadelphia and the Children’s University Hospital of Bern

Accreditation for CME

Final program
SAVE THE DATE

13th European Postgraduate Course in Neonatal and Pediatric Intensive Care Medicine

March 14-16, 2019 in Bern, Switzerland

It is our great pleasure to announce the 13th European Postgraduate Course in Neonatal and Pediatric Intensive Care, which will take place on March 14-16, 2019 in Bern, Switzerland.

As usual, internationally renowned speakers will present hot topics and discuss challenging cases in the clinical fields of emergency and intensive care medicine for neonates and children.

This meeting is the ideal opportunity to expand your knowledge in your specialty and to share experiences with colleagues from all over the world.

Venue: The Course will take place on March 14-16, 2019, at the Auditorium Ettore Rossi, University Children’s Hospital, Inselspital, in Bern, Switzerland.

For further information please visit our website www.intensivecarecourse.com or contact us. We are looking forward to hearing from you!

It would be fantastic if you would join us at the next Bernese Postgraduate Course.

Course Chairman
Bendicht P. Wagner, MD

Scientific Secretariat
apib.sekretariat@insel.ch

Administrative Secretariat:
peter.salchli@bbscongress.ch

Administrative secretariat: BBS Congress GmbH, Rabbentalstrasse 83, CH-3013 Bern
Phone: +41 (0)31 331 82 75, Fax: +41 31 332 98 79, peter.salchli@bbscongress.ch, www.bbscongress.ch

Course Chairman: Bendicht Wagner, M.D., Pediatric Intensive Care Unit, University Children’s Hospital Bern, Inselspital, CH-3010 Bern, Switzerland
Secretariat: Phone: +41 (0)31 632 97 39, Fax: +41 31 632 07 84, danae.baumann@insel.ch, www.intensivecarecourse.com
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Dear colleagues and friends,

We are honoured to welcome you all to the 12th European Postgraduate Course in Neonatal and Pediatric Intensive Care Medicine.

As usual, the Course focuses on the critically ill neonate and child in the emergency room or intensive care unit, and its tremendous challenge of clinical management. A clinical management best described by the words of the American Society of Critical Care «Right Care Right Now».

And again, internationally renowned speakers agreed upon coming to Bern and presenting a whole series of hot topics and discussing challenging cases. We hope you will participate to the discussions and meet with the experts during break and lunch times.

Cocktail will be served to everybody on Thursday and Friday evening; the cocktail will be followed by 2 industry sponsored Symposia. Please do not miss.

We also would like to highlight the Pre-Congress ultrasound workshop. It is the «First Bedside Ultrasound Workshop in Pediatric Emergency, Neonatal and Intensive Care Medicine», and it is hosted by the Children’s University Hospital of Philadelphia and the Children’s University Hospital of Bern.

Finally, the city of Bern offers its usual multitude of activities, including the «Museumsnacht Bern 17» on Friday March 17th, 18.00 – 02.00 h.

We would like to thank you for your participation in the Course, and please fill out the Evaluation forms before leaving. We look forward to seeing you in 2 years again.

In the name of the Scientific Committee

Ben Wagner
Chairperson
Organization and Accreditation

Scientific Committee: Bert Hennig, Bern
Michèle Mérat, Bern
Thomas Riedel, Chur
Andreas Schibler, Brisbane
Luregn Schlapbach, Brisbane
Ben Wagner, Bern (Chairperson)

Scientific Secretariat: Danae Baumann
Division of Pediatric Intensive Care
University Children’s Hospital
Inselspital
CH-3010 Bern
Phone: +41 31 632 97 39
Fax: +41 31 632 07 84
e-mail: danae.baumann@insel.ch
www.intensivecarecourse.com

Administrative Secretariat: BBS Congress GmbH
Rabbentalstr. 83
CH-3013 Bern
Phone: +41 31 331 82 75
Fax: +41 31 332 98 79
e-mail: peter.salchli@bbscongress.ch
www.bbscongress.ch
International Accreditation
12th European Postgraduate Course in Neonatal and Pediatric Intensive Care Medicine was granted 15 European CME credits (ECMEC) by the European Accreditation Council for Continuing Medical Education (EACCME).

1st Bedside Ultrasound Workshop in Pediatric Emergency Medicine, Neonatal and Intensive Care Medicine (Bern, Switzerland, March 14–15, 2017) was granted 12 European CME Credits (ECMEC) by the European Accreditation Council for Continuing Medical Education (EACCME).

National Accreditation
The Course (March 16-18, 2017) is accredited by the following national societies:
Swiss Society of Paediatrics (SGP/SSP): 18 Credits
Swiss Society for Intensive Care Medicine (SGI/SSI): 15 Credits
Swiss Society for Emergency and Rescue Medicine (SGNOR/SSMUS): 9 Credits
Swiss Society for Neonatology (SGN/SSN): 18 Credits

The Workshop (March 14–15, 2017) is accredited by the following national society:
Swiss Society of Ultrasound Medicine (SGUM/SSUM): accreditation pending
Course Faculty:

Arnold John  Professor, Boston Children’s Hospital, Boston, USA

Azarow Kenneth S.  Professor, Doernbecher Children’s Hospital, Portland, USA

Conlon Thomas W.  Professor, Children’s Hospital of Philadelphia, Philadelphia, USA

Guerguerian Anne-Marie  Professor, The Hospital for Sick Children, Toronto, CAN

Hayoz Josef  PhD, SenTec AG, Therwil, CH

Laussen Peter  Professor, The Hospital for Sick Children, Toronto, CAN

Lemmers Petra  Professor, University Medical Center Utrecht, Utrecht, NL

Lemson Joris  MD PhD, Radboud University Nijmegen Medical Center, Nijmegen, NL

Mérat Michèle  MD, Bern University Hospital, Bern, CH

Nadkarni Vinay M.  Professor, Children’s Hospital of Philadelphia, Philadelphia, USA

Riedel Thomas  Privatdozent, Kantonsspital Graubünden, Chur, CH

Roehr Charles Christoph  Professor, University of Oxford, School of Medicine, Oxford, UK
# Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schibler Andreas</td>
<td>Professor, Lady Cilento Children’s Hospital and the University of Queensland, Brisbane, AUS</td>
</tr>
<tr>
<td>Schlapbach Luregn J.</td>
<td>Professor, Lady Cilento Children’s Hospital and the University of Queensland, Brisbane, AUS</td>
</tr>
<tr>
<td>Shekerdemian Lara S.</td>
<td>Professor, Texas Children’s Hospital, Houston, USA</td>
</tr>
<tr>
<td>Spinella Philip C.</td>
<td>Professor, St. Louis Children’s Hospital, St. Louis, USA</td>
</tr>
<tr>
<td>Tobias Joseph D.</td>
<td>Professor, Nationwide Children’s Hospital, Columbus, USA</td>
</tr>
<tr>
<td>Traube Chani</td>
<td>Professor, Weill Cornell Medical College, New York, USA</td>
</tr>
<tr>
<td>van Kaam Anton</td>
<td>Professor, Emma Children’s Hospital, Amsterdam, NL</td>
</tr>
<tr>
<td>Wagner Bendicht P.</td>
<td>Privatdozent, Bern University Hospital, Bern, CH</td>
</tr>
<tr>
<td>Wheeler Derek S.</td>
<td>Professor, Cincinnati Children’s Hospital Medical Center, Cincinnati, USA</td>
</tr>
<tr>
<td>Z’Graggen Werner</td>
<td>Professor, Bern University Hospital, Bern, CH</td>
</tr>
</tbody>
</table>
Faculty

Workshop Faculty:

Berger Markus R.  MD, Bern University Hospital, Bern, CH

Conlon Thomas W.  Professor, Children’s Hospital of Philadelphia, Philadelphia, USA

Fraga Maria V.  Professor, Children’s Hospital of Philadelphia, Philadelphia, USA

Hennig Bert  MD, Bern University Hospital, Bern, CH

Nishisaki Akira  MD, Children’s Hospital of Philadelphia, Philadelphia, USA

Pallivathukal Sabine  MD, Bern University Hospital, Bern, CH

Pavlovic Mladen  MD, Bern University Hospital, Bern, CH

Sanchez-de-Toledo Joan  Professor, Sant Joan de Déu Barcelona Hospital, Barcelona, E

Schmidt Steffen  MD, Bern University Hospital, Bern, CH
08:30  Welcome
   Ben Wagner

08:35  Opening lecture
   Quality and safety: are we using the right metrics?
   Derek Wheeler

09:05 – 11:45  Session I – Sedation Analgesia
   Chair: John Arnold

09:05  Update on sedation and analgesia in the critically ill neonate and child
   Joseph Tobias

09:35  Pediatric delirium:
   definition, prevention and treatment
   Chani Traube

10:05  Procedural sedation for the ICU physician – an update
   Joseph Tobias

10:30 – 11:00  Coffee break

11:00  Case presentation:
   sedation analgesia in PICU NICU
   Chani Traube

11:25  Case presentation:
   sedation analgesia in PICU NICU
   Joseph Tobias
11:45 – 15:30  **Session II – Shock**
Chair: Luregn Schlapbach

11:45  **Hemodynamic monitoring: from cardiovascular physiology to applied intensive care**
*Joris Lemson*

12:15  **Role of bedside cardiovascular ultrasound in neonatal and pediatric shock**
*Thomas Conlon*

12:30 – 14:00 Lunch break

14:00  **Monitoring and treating the microcirculation**
*Joris Lemson*

14:15  **Update on surviving sepsis campaign**
*Luregn Schlapbach*

14:30  **Fluid resuscitation in shock: is the concept of SODS phases clinically useful?**
*Joris Lemson*

14:45  **Case presentation: septic shock – do I follow the guidelines?**
*Luregn Schlapbach*

15:05  **Case presentation: septic shock – do I follow the guidelines?**
*Joris Lemson*
15:30 – 18:20  
**Session III – Heart Disease**  
Chair: Peter Laussen

15:30  
**Postnatal management of the decompensating neonate with CHD**  
*Peter Laussen*

16:00  
**Cardiopulmonary interaction: how do I improve the circulation with/on the ventilator**  
*Lara Shekerdemian*

16:15 – 16:45  
Coffee break

16:45  
**Chronic and acute decompensated heart failure in the infant**  
*Lara Shekerdemian*

17:15  
**ECLS in congenital heart disease**  
*Peter Laussen*

17:40  
**Case presentation: do I follow the PCICS pharmacotherapy consensus statement?**  
*Lara Shekerdemian*

18:00  
**Case presentation: do I follow the PCICS pharmacotherapy consensus statement?**  
*Peter Laussen*

18:20  
Cocktail

19:00 – 20:00  
**Industry-sponsored Symposium 1 –**  
**Details see page 21**

20:00  
End of day one
08:00 – 10:00  **Session IV – Mechanical Lung Support**  
Chair: Anton van Kaam

08:00  **Strategies, modes and targets of mechanical ventilation in the premature**  
*Anton van Kaam*

08:30  **Lung recruitment without lung injury: moving beyond stress and strain**  
*John Arnold*

09:00  **The changing landscape of NIV and high flow in ICU**  
*Andreas Schibler*

09:20  **HFOV in pediatric patients – where are we?**  
*John Arnold*

09:40  **Neonatal RDS: update on surfactant use**  
*Anton van Kaam*

10:00 – 10:30  **Coffee break**

10:30 – 12:00  **Session IV – Mechanical Lung Support**  
Chair: Andreas Schibler

10:30  **Spontaneous breathing on a ventilator: a double edges sword?**  
*Andreas Schibler*

10:45  **Current and future status of ECLS for respiratory failure**  
*Anne-Marie Guerguerian*
11:05    Case presentation:
do I follow the neonatal RDS guidelines 2016?
Anton van Kaam

11:35    Case presentation:
do I follow the PARDS guidelines?
John Arnold

12:00 – 13:30    Lunch break

13:30 – 14:15    Session V – Quality Improvement
Chair: Derek Wheeler

13:30    Process of care, ICU structures and workforces
Derek Wheeler

13:45    Quality improvement on health care
related infections
Luregn Schlapbach

14:15 – 16:45    Session VI – Trauma and Beeding
Chair: Phil Spinella

14:15    Medical management of the severely bleeding child
Phil Spinella

14:45    Interventions in severely injured children –
«primum non nocere»
Kenneth Azarow

15:15    Clinical impact of blood product optimization
Phil Spinella
15:30 – 16:00 Coffe break

16:00 Case presentation: early interventions in the severely injured child
Kenneth Azarow

16:25 Case presentation: hemostatic resuscitation in the severely injured child
Phil Spinella

16:45 – 17:00 Miscellaneous
Chair: Derek Wheeler

16:45 (Muscle) weakness in ICU
Werner Z’Graggen

17:15 Situation awareness: predicting and preventing patient deterioration
Derek Wheeler

17:30 Cocktail

18:10 – 19:10 Industry-sponsored Symposium 2 – Details see page 21

19:10 End of day two
08:00 – 10:00  **Session VII – Brain and CPR**  
Chair: Vinay Nadkarni

08:00  **What to do in the first critical hour of a neurological emergency?**  
*Anne-Marie Guerguerian*

08:30  **Brain-oriented hemodynamic management in the critically ill newborn**  
*Petra Lemmers*

09:00  **High quality postresuscitation management: the pediatric patient**  
*Vinay Nadkarni*

09:30  **Neonatal aspects in postresuscitation management and prognostication**  
*Petra Lemmers*

09:45  **CPR in special circumstances: hyperkalemia, hypothermia, intoxication**  
*Vinay Nadkarni*

10:00 - 10:30  Coffee break

10:30 - 12:00  **Session VII – Brain and CPR**  
Chair: Peter Laussen

10:30  **CPR in acquired and congenital heart disease**  
*Peter Laussen*

10:50  **ECPR: utilization, management and outcomes**  
*Vinay Nadkarni*
11:10  Case presentation: 
do I follow the ILCOR guidelines?  
*Petra Lemmers*

11:30  Case presentation: 
do I follow the ILCOR guidelines?  
*Vinay Nadkarni*

12:00  **Final lecture**  
Chair: *Ben Wagner*

12:00  **Pediatric donation after circulatory determination of death**  
*Anne-Marie Guerguerian*

12:30  **End of the Course – Closing remarks**  
*Ben Wagner*
Workshop, March 14–15, 2017

Workshop Directors
Thomas Conlon, Philadelphia, USA
Bert Hennig, Bern, Switzerland

Workshop Overview and Objectives
Bedside ultrasound is an emerging technology in pediatric acute care settings. Learn how to acquire and interpret bedside ultrasound images in procedural and non-procedural applications. Lectures provided by international multi-discipline pediatric specialists will describe bedside ultrasound techniques and highlight relevant literature supporting applications in practice. Hands-on stations will allow learners the opportunity to practice skills to implement at the bedside in the care of critically ill neonates and children.

Workshop Program
Tuesday, March 14, 2017, 07:30 – 17:15
07:30 Registration
08:00 Introduction and Pre-Test (Thomas Conlon / Bert Hennig)
08:30 Physics and Knobology (Thomas Conlon)
09:00 Vascular Access (Joan Sanchez-de-Toledo)
09:30 Break
09:45 Hands-On (Knobology, Vascular access) (all Workshop Leaders)
11:00 The Abdominal Exam (Akira Nishisaki)
11:30 Lunch & Case Review (Maria Fraga / Thomas Conlon)
12:45 Hands-On (Abdomen, Subcostal View) (all Workshop Leaders)
13:45 The Cardiac Exam (Maria Fraga)
14:30 Left and Right Ventricular Assessment (Joan Sanchez-de-Toledo)
15:15 Break
15:30 Hands-On (Parasternal Views, Apical Views) (all Workshop Leaders)
17:15 Close

Workshop Program
Wednesday, March 15, 2017, 08:00 – 17:30
08:00 Review (Thomas Conlon / Bert Hennig)
08:45 The Thoracic Exam (Akira Nishisaki)
08:45 Volume Assessment (Thomas Conlon)
09:15 States of Shock (Thomas Conlon)
10:00 Break
Workshop, March 14–15, 2017

10:15 Hands-On (Shock Assessment, Volume Assessment, Thoracic) (all Workshop Leaders)
12:15 Lunch & Case Review: Neonatal / Cardiac (Maria Fraga / Thomas Conlon)
13:15 Neonatal Head Ultrasound (Maria Fraga)
13:45 Break
14:00 Hands-On Evaluation (Lung/Abdomen, Cardiac, Vascular Access / Expert) (all Workshop Leaders)
16:00 Bedside Ultrasound Education, Program Implementation and Moving Forward (Akira Nishisaki)
16:30 Panel Discussion (all Workshop Leaders)
17:00 Concluding Remarks, Evaluation (Thomas Conlon, Bert Hennig)
17:30 Close

Workshop leaders

Markus Berger  Neonatology, Inselspital, Bern University Hospital, Switzerland
Thomas Conlon  Critical Care Medicine, Children’s Hospital of Philadelphia, USA
Maria Fraga  Neonatology, Children’s Hospital of Philadelphia, USA
Bert Hennig  Pediatric Cardiac Intensive Care, Inselspital, Bern University Hospital, Switzerland
Akira Nishisaki  Critical Care Medicine, Children’s Hospital of Philadelphia, USA
Sabine Pallivathukal  Pediatric Cardiology, Inselspital, Bern University Hospital, Switzerland
Mladen Pavlovic  Pediatric Cardiology, Inselspital, Bern University Hospital, Switzerland
Joan Sanchez-de-Toledo  Pediatric Cardiac Intensive Care, Barcelona Children’s Hospital, Barcelona, Spain
Steffen Schmidt  Pediatric Emergency, Inselspital, Bern University Hospital, Switzerland
### General Information

**Venue**
Auditorium Ettore Rossi, Inselspital (Kinderklinik), Bern/Switzerland.
Bus n° 11 (direction «Holligen») from main railway station to Inselspital, bus stop «Inselspital».

**Official language**
English, no simultaneous translation

**Beginning and end of the Workshop**
- **Beginning** Tuesday, March 14, 2017, 07:30 h
- **End** Wednesday, March 15, 2017, 18:00 h

**Beginning and end of the Course**
- **Beginning** Thursday, March 16, 2017, 08:30 h
- **End** Saturday, March 18, 2017, 12:40 h

**Administrative Secretariat before and after the Course**
BBS Congress GmbH,
Rabbentalstrasse 83, CH-3013 Bern
Phone: +41 31 331 82 75, Fax: +41 31 332 98 79
e-mail: peter.salchli@bbscongress.ch,
www.bbscongress.ch

**Secretariat during the Course**
Foyer Ettore Rossi,
Inselspital (Kinderklinik), CH-3010 Bern
Phone: +41 79 273 06 71

**Registration**
Please see www.intensivecarecourse.com

**Registration Desk – Opening hours**
Each registered participant will receive his/her personal documentation at the registration desk, located in the Foyer Ettore Rossi, Children’s Hospital, Inselspital.

<table>
<thead>
<tr>
<th>Day</th>
<th>Opening Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday</td>
<td>March 14, 2017 07:30 – 08:00 h (Workshop only)</td>
</tr>
<tr>
<td>Wednesday</td>
<td>March 15, 2017 17:00 – 18:00 h</td>
</tr>
<tr>
<td>Thursday</td>
<td>March 16, 2017 07:30 – 19:00 h</td>
</tr>
<tr>
<td>Friday</td>
<td>March 17, 2017 07:30 – 18:00 h</td>
</tr>
<tr>
<td>Saturday</td>
<td>March 18, 2017 07:30 – 12:30 h</td>
</tr>
</tbody>
</table>
# General Information

## Registration fees
_(prices in Swiss Francs CHF)_

<table>
<thead>
<tr>
<th>Category</th>
<th>Fee (prices in Swiss Francs CHF)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ESPNIC members:</strong></td>
<td>450 CHF (until Dec. 15, 2016), 550 CHF (from Dec. 16, 2016)</td>
</tr>
<tr>
<td><strong>Non members:</strong></td>
<td>550 CHF (until Dec. 15, 2016), 650 CHF (from Dec. 16, 2016)</td>
</tr>
</tbody>
</table>

The registration fee includes lunches (March 16 & 17), coffee breaks (March 16–18) and cocktails (March 16 & 17).

## Remittance of fees

The fees have to be paid in Swiss Francs – clearly stating name of the participant – either by bank transfer to the IBAN account below or by credit card.

- **Bank**: Credit Suisse, Bern
- **BIC/SWIFT**: CRESCHZZ30A
- **IBAN**: CH87 0483 5021 1255 4001 0
- **Account holder**: BBS Congress GmbH, CH-3013 Bern

## Cancellation

Refund less 25% administrative charge may be applied for in writing until February 1\(^{st}\), 2017. After this date no refund can be made for cancellations.

The participant acknowledges that he/she has no right to lodge damage claims against the organizers should the holding of the Course be hindered or prevented by unexpected political or economic events or generally by force majeure, or should the non-appearance of speakers or other reasons necessitate program changes. With his/her registration the participant accepts this proviso.
General Information

<table>
<thead>
<tr>
<th>Accommodation</th>
<th>Rooms can be booked online with Bern Incoming GmbH. Please see <a href="http://www.intensivecarecourse.com">www.intensivecarecourse.com</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Podcast</td>
<td>The participants will have access to podcasts of the conferences after the course.</td>
</tr>
<tr>
<td>Public WiFi</td>
<td>Choose WLAN «Public-INSELGRUPPE». Open browser and you’ll be directed to the guest portal. Choose «Free WiFi». Enter your mobile number and accept the terms of use. You’ll receive a code by short message. Indicate the code in the browser and click on «Registration abschliessen».</td>
</tr>
<tr>
<td>Course website</td>
<td><a href="http://www.intensivecarecourse.com">www.intensivecarecourse.com</a></td>
</tr>
<tr>
<td>Workshop website</td>
<td><a href="http://www.bedsideultrasoundworkshop.com">www.bedsideultrasoundworkshop.com</a></td>
</tr>
</tbody>
</table>
Industry-sponsored Symposia

Thursday, March 16, 2017, 19:00 – 20:00

Advances in non-invasive transcutaneous gas monitoring in PICU and NICU

Non-invasive CO₂ monitoring in the PICU and beyond
*Joseph Tobias, Columbus*

New technologies in transcutaneous blood gas measurement
*Josef Hayoz, SenTec AG*

**Sponsor: SenTec AG**

Friday, March 17, 2017, 18:10 – 19:10

**Nasal High Flow in Neonates and Paediatrics:**
*do I really need to change my practice?*

Nasal High Flow, from spontaneous breathing to apnoea in paediatrics
*Andreas Schibler, South Brisbane*

Neonatal Nasal High Flow therapy: evidence, rather than «go with the flow»
*Charles Roehr, Oxford*

**Sponsor: Fisher & Paykel Healthcare SAS**
**Main Sponsors**

**Fisher & Paykel Healthcare SAS,**
Courtaboeuf, France

Fisher & Paykel entered the respiratory care market in 1971 with the development of a unique respiratory humidifier system for use in critical care. We now offer a broad range of products and systems for use in Respiratory and Acute Care (including Optiflow for both adults and infants) and in the treatment of obstructive sleep apnea (OSA).

**PanGas Healthcare,**
Dagmersellen, Switzerland

**SenTec AG,**
Therwil, Switzerland

SenTec is an innovative Swiss company, manufacturing and developing systems for noninvasive patient monitoring. The SenTec Digital Monitoring System provides a complete transcutaneous solution for continuous ventilation and oxygenation monitoring. SenTec’s revolutionary digital sensors, V-SignTM and OxiVenTTM, combine transcutaneous capnometry (tcPCO₂), oxygenation monitoring (tcPO₂) and pulse oximetry in ONE sensor suitable for neonatal, pediatric and adult patients. Accurate and reliable technology, ease of use, relevant safety features, multiple connectivity options and customized system settings help to guide therapy on-line. All in all SenTec pursues its company mission to improve patient outcome and to reduce cost of care.

**Sponsors**

**Acutronic Medical Systems AG,** Hirzel, Switzerland

ACUTRONIC is a Swiss company developing, manufacturing and distributing high tech ventilation solutions for worldwide Intensive Care Units. We are the leading partner when it comes to the most critical areas of respiratory care: Neonatology, Jet Ventilation and Difficult Airway Management. Our innovations simplify the busy clinical routine for caregivers and increase the safety of patients. ACUTRONIC. Ventilation Beyond Limits.
Sponsors

**Anandic Medical Systems AG**, Feuerthalen, Switzerland  
**Anklin AG**, Binningen, Switzerland  
**Arcomed AG**, Regensdorf, Switzerland  
**Dräger Schweiz AG**, Liebefeld, Switzerland

**Hamilton Medical AG**, Bonaduz, Switzerland  
The right ventilation solution for every situation.  
The ventilators from Hamilton Medical ventilate all of your patients; in the intensive care unit, during an MRI procedure and in all transport situations, from the neonate to the adult. Each of these ventilators is equipped with the same standardized user interface and uses the same Intelligent Ventilation technologies.

**Philips AG, Health Systems**, Zürich, Switzerland  
Royal Philips is a leading health technology company focused on improving people's health and enabling better outcomes across the health continuum from healthy living and prevention, to diagnosis, treatment and home care. Philips leverages advanced technology and deep clinical and consumer insights to deliver integrated solutions. The company is a leader in diagnostic imaging, image-guided therapy, patient monitoring and health informatics, as well as in consumer health and home care.

**ResMed Schweiz GmbH**, Liebefeld, Switzerland  
**Theramed AG**, Adligenswil, Switzerland  
Theramed is the competent and innovative solution provider for respiratory care in paediatrics and neonates in Switzerland since 33 years. The Swiss intensive care ventilator bellavista 1000 NEO from imtmedical featuring Tv from 2 ml and HFOT meets the needs of the smallest patients. AquaVENT® NEO are the tailored consumable ventilation kits protected by BioCote antimicrobial technology from Armstrong Medical.

Ultrasound Workshop Machine Sponsors

**GE Medical Systems (Schweiz) AG**, Glattbrugg, Switzerland  
**Philips AG, Health Systems**, Zürich, Switzerland  
**Siemens Schweiz AG**, Zürich, Switzerland
Optiflow™ Junior Nasal High Flow Symposium

Friday 17 March
18:00 - 19:00

SAVE THE DATE

Nasal High Flow in Neonates and Paediatrics: Do I really need to change my practice?

> Nasal High Flow, from spontaneous breathing to apnoea in paediatrics
A. Schibler (South Brisbane - Australia)

> Neonatal Nasal High Flow therapy: evidence, rather than “go with the flow”
C. Roehr (Oxford - UK)
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