11th European Postgraduate Course in Neonatal and Pediatric Intensive Care Medicine

March 12-14, 2015
Workshops March 11, 2015

University Children’s Hospital, Inselspital, Berne, Switzerland

Accreditation for CME

Supported by University Hospital, Inselspital, Berne

Endorsed by ESPNIC – The European Society of Paediatric and Neonatal Intensive Care

Final program
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Dear colleagues and friends,

We are proud to announce the 11th European Postgraduate Course in Neonatal and Pediatric Intensive Care Medicine.

The Course will take place on March 12-14, 2015, at the Auditorium Ettore Rossi, University Children’s Hospital, Inselspital, in Berne, Switzerland. For the first time we plan two runs of Precourse Workshops on March 11, 2015 (14:00h – 18:00h).

Again, internationally renowned speakers will present hot topics pertinent to young and senior physicians and discuss challenging cases in the clinical fields of emergency and intensive care medicine, neonatology and anesthesia.

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

Sincerely yours

Bendicht P. Wagner, MD
Course Chairperson
Organization

Scientific Committee: Damian Hutter, Berne¹
Thomas Riedel, Berne²
Andreas Schibler, Brisbane³
Luregn Schlapbach, Brisbane¹
Bendicht Wagner, Berne (Chairperson)¹

¹No COI declared
²COI: Acutronic Medical Systems AG
³COI: Fisher & Paykel Healthcare

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Accreditation

The workshops (March 11, 2015) are accredited by the following national societies:

Swiss Society of Paediatrics (SGP/SSP):
- Workshop 1: 3 Credits
- Workshops 2&3: for each workshop 1.5 Credits

Swiss Society for Neonatology (SGN/SSN):
- Workshop 1: 3 Credits
- Workshops 2&3: for each workshop 1.5 Credits

The course (March 12-14, 2015) is accredited by the following national societies:

Swiss Society of Paediatrics (SGP/SSP): 17.5 Credits

Swiss Society for Intensive Care Medicine (SGI/SSI): 15 Credits

Swiss Society for Emergency and Rescue Medicine (SGNOR/SSMUS): 14 Credits

Swiss Society for Neonatology (SGN/SSN): 17.5 Credits

The Course (March 11 – 14, 2015) has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists.

11th European Postgraduate Course in Neonatal and Pediatric Intensive Care Medicine is designated for a maximum of, or up to 18 European CME credits (ECMEC).
# Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bell Michael</td>
<td>Professor, Critical Care Medicine, Children’s Hospital, University of Pittsburgh</td>
<td>Pittsburgh University Medical Center, Pittsburgh</td>
</tr>
<tr>
<td>Breschan Christian</td>
<td>MD, Departement of Anaesthesia, Klinikum Klagenfurt</td>
<td>Klagenfurt University Medicine Department of Pediatrics</td>
</tr>
<tr>
<td>Demirakca Süha</td>
<td>MD, Universitätsmedizin Mannheim, Universitätsklinik für Kinder- und Jugendmedizin</td>
<td>Mannheim University Medicine Department of Pediatrics</td>
</tr>
<tr>
<td>Ehrenkranz Richard</td>
<td>Professor, Departement of Neonatal-Perinatal Medicine, Yale University</td>
<td>School of Medicine, New Haven University Medicine Department of Pediatrics</td>
</tr>
<tr>
<td>Gehring Stephan</td>
<td>Professor, Zentrum für Kinder- und Jugendmedizin, Universitätsmedizin der Johannes Gutenberg-Universtität Mainz</td>
<td>Mainz University Medicine Department of Pediatrics</td>
</tr>
<tr>
<td>Goldstein Stuart</td>
<td>Professor, Center for Acute Care Nephrology, Cincinnati Children’s Hospital Medical Center</td>
<td>Cincinnati Children’s Hospital Medical Center, Cincinnati</td>
</tr>
<tr>
<td>Haas Thorsten</td>
<td>PD Dr. med., Departement of Anesthesiology, University Children’s Hospital Zürich</td>
<td>Zürich University Medicine Department of Pediatrics</td>
</tr>
<tr>
<td>Huth Ralf</td>
<td>MD, Interdisziplinäre Kinderintensivstation, University Medicine Departement of Pediatrics</td>
<td>Mainz University Medicine Department of Pediatrics</td>
</tr>
<tr>
<td>Joosten Koen</td>
<td>Professor, Pediatric ICU, Sophia Children’s Hospital, Erasmus Medical Center</td>
<td>Rotterdam University Medicine Department of Pediatrics</td>
</tr>
<tr>
<td>Kavanagh Brian</td>
<td>Professor, Departement of Anesthesia, University of Toronto</td>
<td>University of Toronto University Medicine Department of Pediatrics</td>
</tr>
<tr>
<td>Faculty Name</td>
<td>Position</td>
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<tr>
<td>Kilbaugh Todd J.</td>
<td>Professor, Children’s Hospital of Philadelphia, University of Pennsylvania, Philadelphia</td>
<td></td>
</tr>
<tr>
<td>Kluckow Martin</td>
<td>Professor, Neonatal ICU, Royal North Shore Hospital &amp; University of Sydney, Sydney</td>
<td></td>
</tr>
<tr>
<td>Kreiter Bianca</td>
<td>MD, Division of Pediatric Intensive Care, University Children’s Hospital, Berne</td>
<td></td>
</tr>
<tr>
<td>Lück Bettina</td>
<td>MD, Klinik für Kinderkardiologie, Herzzentrum Leipzig, Leipzig</td>
<td></td>
</tr>
<tr>
<td>MacLaren Graeme</td>
<td>Professor, Cardiothoracic ICU, National University Hospital, Singapore</td>
<td></td>
</tr>
<tr>
<td>Nuoffer Jean-Marc</td>
<td>PD Dr. med., Division of Pediatric Endocrinology and Metabolism, University Children’s Hospital, Berne</td>
<td></td>
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<tr>
<td>Pfammatter Jean-Pierre</td>
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<td></td>
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<tr>
<td>Riedel Thomas</td>
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<td></td>
</tr>
<tr>
<td>Schibler Andreas</td>
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<tr>
<td>Schlapbach Luregn</td>
<td>Professor, Pediatric ICU, Lady Cilento Children’s Hospital, South Brisbane</td>
<td></td>
</tr>
<tr>
<td>Schwartz Steven</td>
<td>Professor, Department of Critical Care Medicine, the Hospital for Sick Children, Toronto</td>
<td></td>
</tr>
</tbody>
</table>
### Faculty

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tabbutt Sarah</td>
<td>Professor, Cardiac Intensive Care, Benioff Children’s Hospital, San Francisco</td>
</tr>
<tr>
<td>van Kaam Anton</td>
<td>Professor, Neonatal ICU, Emma Children’s Hospital, Amsterdam Medical Center, Amsterdam</td>
</tr>
<tr>
<td>Wagner Bendicht</td>
<td>PD Dr. med., Division of Pediatric Intensive Care, University Children’s Hospital, Berne</td>
</tr>
<tr>
<td>Weidenbach Michael</td>
<td>PD Dr. med., Klinik für Kinderkardiologie, Herzzentrum Leipzig, Leipzig</td>
</tr>
</tbody>
</table>
08:30  Welcome  
Ben Wagner  

08:35  Clinical decision making in critical care medicine: strengths and limitations of kinds of medical knowledge  
Brian Kavanagh, Toronto  
Content: Overview lecture to include criticism to GRADE  

09:00 – 12:45  Session I – Fluid and shock  
Chair: Brian Kavanagh, Toronto  

09:00  Basics of fluid physiology  
Stuart Goldstein, Cincinnati  
Content: Overview lecture to include the basics such as in Am J Kid Dis 2014  

09:30  Cardiovascular physiology  
Steve Schwartz, Toronto  
Content: Overview lecture to include mean systemic filling pressure  

10:00  Septic shock  
Graeme MacLaren, Singapore  
Content: Overview lecture to focus on important basics and controversies
10:30 – 11:00  Coffee break

11:00  Advances in recognition, resuscitation, and stabilization of the critically ill child
      Todd J. Kilbaugh, Philadelphia

      Content: Overview lecture to focus on pericardiac arrest management, to include management of traumatic arrest

11:30  Acute kidney injury and management of fluids / hemodynamics
      Stuart Goldstein, Cincinnati

      Content: Overview lecture to include AKI definitions, and the role of fluid bolus, maintenance fluids, sodium, CVP, MABP on AKI

12:00  Case: Challenging pediatric septic shock: from initial suspicion to maximal intensive care medicine
      Todd J. Kilbaugh, Graeme MacLaren, Andreas Schibler

      Content: What variables/goals/ echocardiography to guide first line treatments; what variables/goals to guide fluid, vasoactive, hormones, glucose

12:45 – 14:00  Lunch break
### Session II – The critically ill neonate postnatally
Chair: Martin Kluckow, Sydney

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00</td>
<td>Early delivery room management – a gentler approach</td>
<td>Martin Kluckow, Sydney</td>
<td>Overview lecture to include delayed cord clamping</td>
</tr>
<tr>
<td>14:20</td>
<td>How to minimize lung injury during compromised pulmonary transition perinatally</td>
<td>Anton van Kaam, Amsterdam</td>
<td>Overview lecture to include targets, modes of ventilation and therapeutics</td>
</tr>
<tr>
<td>14:50</td>
<td>Deconstructing the syndrome of persistent pulmonary hypertension of the newborn</td>
<td>Martin Kluckow, Sydney</td>
<td>Overview lecture to include pathophysiology, diagnostics, therapeutics</td>
</tr>
<tr>
<td>15:10</td>
<td>Oxygen targets in the premature infant: lessons learned from RCT</td>
<td>Richard Ehrenkranz, New Haven</td>
<td>Overview lecture to include the O2-targets from birth to longterm BPD</td>
</tr>
<tr>
<td>15:30 – 16:00</td>
<td>Coffee break</td>
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</tbody>
</table>
Scientific program, March 12, 2015

16:00  Case: Neonatal resuscitation and stabilisation: more than APGAR driven
       Richard Ehrenkranz, Martin Kluckow, Anton van Kaam
       Content: What respiratory support (recruitment, tidalvolume, pressure), what hemodynamic monitoring, what agents?

16:45 – 17:15  Session III – Inborn metabolic disease
       Chair: Koen Joosten, Rotterdam

16:45  Inborn metabolic disease: Emergency evaluation and treatment
       Jean-Marc Nuoffer, Berne
       Content: Overview lecture to include pathophysiology, diagnostics, therapeutics

17:15 – 17:45  Industry Session – Details see page 21

17:45  End of day one
Scientific program, March 13, 2015

08:30 – 10:00 **Session IV – Nutrition**
Chair: Koen Joosten, Rotterdam

08:30 **Nutrition in the critically ill:**
**Myths and misconceptions**
Koen Joosten, Rotterdam

Content: Overview lecture to include similar topics such as in CCM 2014;42:962

09:00 **Nutritional management in the sick premature infant**
Richard Ehrenkranz, New Haven

Content: Overview lecture to include important basics and controversy issues

09:30 **Neonatal and pediatric cases: Nutritional assessment and supply in special circumstances**
Richard Ehrenkranz, Koen Joosten

Content: Perioperative case, septic case, sick malnourished patient

10:15 – 10:45 Coffee break
10:45 – 12:45  
**Session V – Lung**  
Chair: Andreas Schibler, Brisbane

10:45  
**Update on respiratory physiology**  
Andreas Schibler, Brisbane

Content: Overview lecture to include transpulmonary pressure, strain, stress, work of breathing

11:15  
**Ventilation induced lung injury: how to prevent in clinical practise?**  
Brian Kavanagh, Toronto

Content: Overview lecture: from basics to new aspects

11:45  
**Weaning the mechanically ventilated preterm infant**  
Anton van Kaam, Amsterdam

Content: Overview lecture about various ventilatory modes e.g. volume target ventilation, NAVA

12:05  
**Case: Challenging pediatric respiratory failure**  
Brian Kavanagh, Andreas Schibler

Content: How to recruit the lung, when to limit tidalvolume and pressure, prone positioning, high frequency ventilation, muscle relaxation

12:45 – 14:00  
Lunch break
14:00 – 17:45  
**Session VI – Heart**  
Chair: Steve Schwartz, Toronto

**14:00**  
**Perioperative stage 1 in Hypoplastic Left Heart Syndrome**  
Steve Schwartz, Sarah Tabbutt  
Content: Overview lecture including individualized approaches to HLHS

**14:45**  
**The Fontan patient in the intensive care unit**  
Sarah Tabbutt, San Francisco  
Content: Overview lecture to include pathophysiology, diagnostics, therapeutics

**15:05**  
**Residual left heart lesions in the biventricular circulation**  
Steve Schwartz, Toronto  
Content: Overview lecture to include pathophysiology, diagnostics, therapeutics

**15:25**  
**Mechanical support in failing congenital heart disease**  
Sarah Tabbutt, San Francisco  
Content: Overview lecture

**15:45 – 16.15**  
Coffee break
16:15  Emergency treatment of dysrhythmias in the neonate and child
       Jean-Pierre Pfammatter, Berne

       Content: Overview lecture

16:45  Case: Postoperative low cardiac output syndrome: the deteriorating infant
       Steve Schwartz, Sarah Tabbutt

       Content: Hypovolemia, SVR, PVR, cardiopulmonary interactions

17:30  End of day two
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Description</th>
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<tbody>
<tr>
<td>07:45 – 08:15</td>
<td><strong>Industry Session</strong> – Details see page 22</td>
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</tbody>
</table>
| 08:30 – 10:30 | **Session VII – Brain**  
  Chair: Todd J. Kilbaugh, Philadelphia                                                |
| 08:30     | **Refractory status epilepticus**  
  Michael Bell, Pittsburgh                                                              |
|          | Content: Overview lecture to include pathophysiology, diagnostics, therapeutics     |
| 08:50     | **Risk factors for neonatal intraventricular hemorrhage and periventricular leucomalacia**  
  Martin Kluckow, Sydney                                                              |
|          | Content: Overview lecture to include cerebrovascular reactivity disturbances         |
| 09:10     | **Severe acute noninfectious encephalitis**  
  Michael Bell, Pittsburgh                                                            |
|          | Content: Overview lecture; to include FIRES and its differential diagnosis and treatment |
| 09:30     | **Therapeutic hypothermia update**  
  Todd J. Kilbaugh, Philadelphia                                                        |
|          | Content: Overview lecture to include neonatal, pediatric and adult data              |
10:00  Organ donation after death in the neonate  
Michael Bell, Pittsburgh  
Content: Overview lecture including donation after brain death and cardiac death

10:30 – 11:00  Coffee break

11:00 – 12:45  Session VIII – Organ replacement  
Chair: Graeme MacLaren, Singapore

11:00  Type of renal replacement in the critically ill  
Stuart Goldstein, Cincinnati  
Content: Overview lecture to include CRRT vs intermittent RRT, citrate vs heparin; and application in metabolic diseases

11:30  ECLS overview  
Graeme MacLaren, Singapore  
Content: Overview lecture to include neonatal and pediatric aspects

12:00  Neonatal and Pediatric Cases: ECLS indication and goals  
Brian Kavanagh, Todd J. Kilbaugh, Sarah Tabbutt  
Content: respiratory failure, cardiac failure, CPR, sepsis

12:45  Closing remarks – end of the course
Workshops, March 11, 2015

**Workshop 1**, duration 180 minutes, 14:00 – 15:30 and 16:00 – 17:30

**Chair:** Michael Weidenbach, Leipzig  
**Co-Chair:** Bert Hennig, Berne  
**Topic**  
Functional and congenital heart disease echocardiography for neonatal and pediatric intensivist  
**Content**  
Theory and hands-on (phantom, child) how to use echocardiography as a tool for hemodynamic evaluation and how to identify critical heart defects (segmental analysis)

**Workshop 2**, duration 90 minutes, 14:00 – 15:30 or 16:00 – 17:30

**Chair:** Christian Breschan, Klagenfurt  
**Co-Chair:** Bianca Kreiter, Berne  
**Topic**  
Ultrasound guided vascular access in neonates and children  
**Content**  
Theory (techniques) and hands-on (phantom, child) how to use ultrasound and how to perform percutaneous vascular access with the aid of ultrasound

**Workshop 3**, duration 90 minutes, 14:00 – 15:30 or 16:00 – 17:30

**Chair:** Ralf Huth, Mainz  
**Co-Chair:** Tom Riedel, Berne  
**Topic**  
Difficult airway management in the critically ill neonate and child  
**Content**  
Theory (proposals about management) and hands-on (phantoms, fiberoptics, video laryngoscopies, LAMA) how to manage difficult airway
## General Information

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

### Official language
English, no simultaneous translation

### Beginning and end of workshops
Wednesday, March 11, 2015, 14:00 – 17:30

### Beginning and end of the Course
Thursday, March 12, 2015, 08:30 h
Saturday, March 14, 2015, 13:00 h

### Administrative Secretariat before and after the Course
BBS Congress GmbH, P.O. Box 604, CH-3000 Berne 25
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 Berne
Phone: +41 79 273 06 71

### Registration
Please see [www.intensivecarecourse.com](http://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>Date</th>
<th>Time</th>
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<tbody>
<tr>
<td>Wednesday</td>
<td>March 11, 2015</td>
<td>12:00 – 18:00 h</td>
</tr>
<tr>
<td>Thursday</td>
<td>March 12, 2015</td>
<td>07:30 – 19:00 h</td>
</tr>
<tr>
<td>Friday</td>
<td>March 13, 2015</td>
<td>08:00 – 18:00 h</td>
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<tr>
<td>Saturday</td>
<td>March 14, 2015</td>
<td>08:00 – 13:00 h</td>
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</tbody>
</table>
General Information

Registration fees
(Prices in Swiss Francs CHF)

**ESPNIC members:**
- 500 CHF (until Dec. 15, 2014),
- 600 CHF (from Dec. 16, 2014)

**Non members:**
- 600 CHF (until Dec. 15, 2014),
- 700 CHF (from Dec. 16, 2014)

The registration fee includes lunches (March 12 & 13) and coffee breaks (March 12–14).

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.

Cancellation

Refund less 25% administrative charge may be applied for in writing until February 1st, 2015. 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.

Bank:

Credit Suisse, Berne
BIC/SWIFT: CRESCHZZ30A
IBAN: CH87 0483 5021 1255 4001 0
Account holder: BBS Congress GmbH, CH-3000 Berne 25
# General Information

<table>
<thead>
<tr>
<th>Accommodation</th>
<th>Rooms can be booked online with Berne 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>Course website</td>
<td><a href="http://www.intensivecarecourse.com">www.intensivecarecourse.com</a></td>
</tr>
<tr>
<td>Internet access</td>
<td>Free WiFi access for all participants throughout the course area.</td>
</tr>
</tbody>
</table>

As we are not sure having reached all interested colleagues by our mailing, we kindly ask you to notify your collaborators/colleagues about this meeting. Thank you!
Thursday, March 12, 2015, 17:15 – 17:45

Massive bleeding after trauma or surgery: Update on evaluation and treatment
Thorsten Haas, Zürich

Organized by CSL Behring AG, Berne, Switzerland

Content

The aetiology of haemostatic changes during major pediatric surgery is multifactorial and may be related to dilutional coagulopathy, hyperfibrinolysis, and surgical complexity. Fibrinogen is the first coagulation factor that achieves a critical low value during massive blood loss, while all other factors seem to be less affected by blood loss and hemodilution. Fast and reliable monitoring of the entire coagulation process (e.g. by thromboelastometry) might be of great value for detection of coagulopathy and guidance on effective coagulation management. Although the transfusion of fresh frozen plasma (FFP) has been recommended in several guidelines, the use of coagulation factors might offer an alternative and potentially superior approach in managing perioperative coagulation disorders. The implementation of a thromboelastometry-guided bleeding management in children seems to be associated with a considerable reduction of intraoperative transfusion requirements and thereby a decrease of transfusion-related direct costs.
Industry Sessions

Saturday, March 14, 2015, 07:45 – 08:15

NAVA beyond triggering
Andreas Schibler & Luregn Schlapbach, Brisbane

Organized by Maquet Vertrieb und Service Deutschland GmbH, Rastatt, Germany

Content Neuronally adjusted ventilatory assist (NAVA) has been promoted as a novel device to improve triggering and patient-ventilator synchronisation. In addition, the use of NAVA opens up new perspectives to monitor and understand respiratory physiology in a patient. Indeed, the availability of the electric activity of the diaphragm is not only a powerful monitoring tool for the intensivist, but at the same time gives access to biologically variable ventilation. We will illustrate how using NAVA may change the way we think about our patients on a number of examples from research and case series.
Main Sponsor

ACUTRONIC Medical Systems AG, Hirzel, Switzerland*

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

University Children’s Hospital
Inselspital, Berne, Switzerland
March 16-18, 2017

Join us in 2017

Course Chairperson
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Secretariat: Phone: +41 31 632 9739, Fax: +41 31 632 0784, apib@insel.ch

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