

# **10<sup>th</sup> European Postgraduate Course in Neonatal and Pediatric Intensive Care**

**March 15 – 17 2012**

**University Children's Hospital, Inselspital, Berne  
Switzerland**



**Accreditation for CME**

**Supported by University Hospital, Inselspital, Berne**

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

**Final Program**

---

## Welcome address 2012

Dear colleague

We are proud to announce the 10<sup>th</sup> European Postgraduate Course in Neonatal and Pediatric Intensive Care. These Courses joining neonatal and pediatric experts have been very successful so far. They are characterized by a highly professional but also familiar and interactive atmosphere.

The 10<sup>th</sup> Course will focus on neonatal and pediatric physiology of the critically ill patient. In addition, overview lectures will present basic as well as advanced clinical management of diverse diseases relevant to intensive care medicine. Finally, round tables will present cases and allow for discussion of controversial issues. Again, many experts from around the world are willing to join the Course. Interaction between the audience and speakers will be guaranteed by round table sessions, and by joint coffee break and lunch time.

Looking forward to welcome you next March in Berne



Ben Wagner  
Course Chairman

## Organization 2012

**Scientific Committee:** Damian Hutter (Berne), Kerstin Seibel (Brisbane), Thomas Riedel (Berne), Andreas Schibler (Brisbane), Luregn Schlapbach (Brisbane), Bendicht Wagner (Berne, Chairman)

**Scientific Secretariat:** Daniela Grütter  
Department of Pediatric Intensive Care  
University Children's Hospital  
Inselspital, CH-3010 Berne  
Phone: ++41 31 632 9739, Fax: ++41 31 632 0784  
E-mail: [daniela.gruetter@insel.ch](mailto:daniela.gruetter@insel.ch)  
[www.intensivecource.com](http://www.intensivecource.com)

**Administrative Secretariat:** BBS Congress GmbH  
P.O. Box, Ch-3000 Berne 25  
Phone: ++41 31 331 82 75, Fax: ++41 31 332 98 79  
E-mail: [peter.salchli@bbscongress.ch](mailto:peter.salchli@bbscongress.ch)  
[www.bbscongress.ch](http://www.bbscongress.ch)



## General Information 2012

<b>Venue</b>	Inselspital (Kinderklinik), Berne/Switzerland Bus N° 11 (direction «Güterbahnhof») from railway station to Inselspital, bus stop «Inselspital»														
<b>Official Language</b>	English, no simultaneous translation														
<b>Beginning and end of the Course</b>	Thursday, March 15, 2012, 09:00 h Saturday, March 17, 2012, 13:00 h														
<b>Administrative Secretariat before and after the Course</b>	BBS Congress GmbH, P.O. Box, CH-3000 Berne 25 Phone ++41 31 331 82 75 Fax ++41 332 98 79 E-Mail: peter.salchli@bbscongress.ch Website : www.bbscongress.ch														
<b>Address during the Course</b>	Inselspital (Kinderklinik), CH-3010 Berne, Phone: ++41 79 273 0671														
<b>Registration</b>	Please see <a href="http://www.bbscongress.ch/onlineforms/neo2012.php">www.bbscongress.ch/onlineforms/neo2012.php</a>														
<b>Registration Desk</b>	Each registered participant will receive his/her personal documentation (including final program) at the registration desk in the Children's Hospital (Kinderklinik). <table><tr><td>Wednesday</td><td>March 14, 2012</td><td>17:00 – 19:00 h</td></tr><tr><td>Thursday</td><td>March 15, 2012</td><td>07:30 – 19:00 h</td></tr><tr><td>Friday</td><td>March 16, 2012</td><td>08:00 – 18:00 h</td></tr><tr><td>Saturday</td><td>March 17, 2012</td><td>08:00 – 13:00 h</td></tr></table>			Wednesday	March 14, 2012	17:00 – 19:00 h	Thursday	March 15, 2012	07:30 – 19:00 h	Friday	March 16, 2012	08:00 – 18:00 h	Saturday	March 17, 2012	08:00 – 13:00 h
Wednesday	March 14, 2012	17:00 – 19:00 h													
Thursday	March 15, 2012	07:30 – 19:00 h													
Friday	March 16, 2012	08:00 – 18:00 h													
Saturday	March 17, 2012	08:00 – 13:00 h													
<b>Registration Fees</b>	<b>Payment received by</b>	Dec. 15, '11 as	from Dec. 16, '11												
	Members ESPNIC*	500 CHF	600 CHF												
	Non Members	600 CHF	700 CHF												
	Fees include lunches (March 15 & 16), and coffee breaks (March 15-17). *proof of membership required														
<b>Remittance of Fees</b>	The fees have to be paid in Swiss Francs – clearly stating name and address of the participant – either by bank transfer to the following account: Bank: Credit Suisse, Zürich Clearing n° 4835, BIC/SWIFT: CRESCHZZ80A Account n°: 211255-40-10 IBAN: CH 87 0483 5021 1255 4001 0 Account holder: BBS Congress GmbH, CH-3000 Bern 25 See registration form. Registration may be done online (see congress website <a href="http://www.bbscongress.ch">www.bbscongress.ch</a> ). or by VISA or Euro/Mastercard.														



## General Information 2012

<b>Cancellation</b>	<p>Refund less 25% administrative charge may be applied for in writing until February 1st, 2012. After this date no refund can be made for cancellations.</p> <p>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 this registration, the participant accepts this proviso.</p>
<b>Accommodation</b>	<p>Accommodation in various price categories has been reserved in Berne. Please book your room online with Berne incoming GmbH (see congress website). Your reservation will be confirmed directly by Bern Incoming GmbH.</p>
<b>Handout</b>	<p>A handout of the final program and website access to presentations will be distributed to every registered participant at the registration desk (included in congress fees).</p>
<b>Websites</b>	<p><a href="http://www.bbscongress.ch">www.bbscongress.ch</a> <a href="http://www.intensivecarecourse.com">www.intensivecarecourse.com</a></p>

**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!**



## Main Sponsors 2012

Acutronic, Fabrik im Schiffli, 8816 Hirzel

**ACUTRONIC**  
Medical Systems AG

Baxter AG, Müllerenstrasse 3, 8604 Volketschwil

**Baxter**

## Sponsors 2012

**B Braun Medical AG**, Seesatz 17, 6204 Sempach  
**CSL Behring AG**, Wankdorfstrasse 10, 3000 Bern 22  
**Dräger Medical Schweiz AG**, Waldeggstrasse 38, 3097 Liebefeld  
**Fumedica AG**, Luzernerstrasse 91, 5630 Muri  
**Maquet AG**, Wilerstrasse 75, 9200 Gossau  
**MCM Medsys AG**, Industrie Neuhof 31, 3422 Kirchberg  
**Medin Medical Innovations GmbH**, Lindenbergstrasse 1, D-82178 Puchheim  
**Nestlé Suisse SA**, C.P. 352, 1800 Vevey  
**Nycomed Pharma AG**, Wallisellenstrasse 55, 8600 Dübendorf  
**PanGas AG**, Industriepark 10, 6252 Dagmarsellen  
**Philips AG Healthcare**, Allmendstrasse 140, Postfach 350, 8027 Zürich  
**Pulsion Medical Systems SE**, Josph-Wild-Strasse 20, D-81829 München  
**Radiometer RSCH GmbH**, Zürcherstrasse 66, 8800 Thalwil  
**Teleflex Medical GmbH**, Hühnerhubelstrasse, 3123 Belp

## CME Credits

Accreditation for CME-Credits from the European Accreditation Council for Continuing Medical Education (EACCME) is pendent.

**The following national Societies have accredited this Course with individual accounts of educational credits:**

SGNOR (Swiss Society of Emergency and Resuscitation Medicine)	10
SGAR (Swiss Society of Anaesthesiology and Resuscitation)	15
SGI (Swiss Society of Intensive Care)	15
SGN (Swiss Society of Neonatology)	15
SGP (Swiss Society of Paediatrics)	14



## Faculty 2012

**Beghetti Maurice**

Professor and Head, Pediatric Cardiology Unit, Children's University Hospital, Geneva

**Carcillo Joseph**

Professor, Division of Pediatric Critical Care Medicine, Pittsburgh, University of Pittsburgh

**De Vries Linda**

Professor, Neonatal Neurology, Wilhelmina Children's Hospital, Utrecht

**Diboldox Manuel**

MD, Ross Tilley Burn Centre, Toronto

**Duhaime Ann-Christine**

Professor and Director, Pediatric Neurosurgery, Massachusetts General Hospital, Boston

**Gassmann Max**

Professor, Institute of Veterinary Physiology, Zurich

**Kavanagh Brian**

Professor and Chair, Department of Anesthesia, University of Toronto, Toronto

**Schibler Andreas**

Professor, Pediatric Intensive Care, Mater Children's Hospital, Brisbane

**Schwartz Steven**

Professor and Head, Division of Cardiac Critical Care Medicine, Hospital for Sick Children, Toronto

**Seri Istvan**

Professor and Director, Center for Fetal and Neonatal Medicine, Children's Hospital, Los Angeles

**Spinella Philip**

Professor and Director, Department of Pediatrics, Critical Care Translational Research Program, St. Louis

**Tabbutt Sarah**

Professor and Director, Pediatric Cardiac Intensive Care, Benioff Children's Hospital, San Francisco

**Tibboel Dick**

Professor and Director, Intensive Care, Erasmus MC-Sophia, Children's Hospital, Rotterdam

**Tingay David**

MB PhD, Department of Neonatology, Royal Children's Hospital, Melbourne

**Upperman Jeffrey**

MD, Division of General Pediatric Surgery, Children's Hospital, Los Angeles

**Wagner Bendicht**

Privat Dozent and Head, Division of Pediatric Intensive Care, University Children's Hospital, Berne

**Weiss Markus**

Professor and Head, Division of Anesthesiology, University Children's Hospital, Zurich



## Scientific Program Thursday 15.03.2012

09:00	<b>Welcome</b>	Ben Wagner Berne
	<b>Hypoxia and cardiovascular system</b> <i>Chair: Andreas Schibler Brisbane, Istvan Seri Los Angeles</i>	
09:10	Hypoxic survival: from oxygen-sensing to survival strategies	1 Max Gassmann Zurich
09:40	Cardiovascular physiology applied to intensive care	2 Steven Schwartz Toronto
09:55	Fetal and transitional aspects of cardiovascular physiology	3 Istvan Seri Los Angeles
10:10	Overview on hemodynamic monitoring devices	4 Joseph Carcillo Pittsburgh
10:25	<i>Coffee break</i>	
10:55	Microvascular dysfunction in the critically ill	5 Dick Tibboel Rotterdam
11:10	Update on neonatal and pediatric sepsis treatment and outcome Choosing patient tailored hemodynamic monitoring, oxygen delivery targets and therapies	6 Joseph Carcillo Pittsburgh
11:40	– in the sick preterm infant	7 Istvan Seri Los Angeles
11:50	– in the child suffering from acute lung injury	8 Brian Kavanagh Toronto
12:00	– in hemorrhagic shock	9 Philip Spinella St Louis
12:10	– in burn patient	10 Manuel Dibildox Toronto
12:20	– after cardiopulmonary bypass	11 Steven Schwartz Toronto
12:30	<i>Lunch</i>	
14:00	Case presentation and Round Table Discussion	Istvan Seri Los Angeles

## **Heart and pulmonary hypertension**

*Chair: Maurice Beghetti Geneva, Sarah Tabbutt San Francisco*

14:30	Single ventricle physiology	12	Sarah Tabbutt San Francisco
14:45	Chronic compensated and acute decompensated heart failure	13	Steven Schwartz Toronto
15:00	Update on surgical and medical hypoplastic left heart syndrome management	14	Sarah Tabbutt San Francisco
15:15	The perioperative child with critical Fontan circulation	15	Steve Schwartz Toronto
15:30	<i>Coffee break</i>		
16:00	Borderline left heart disease	16	Sarah Tabbutt San Francisco
16:15	Case presentation and Round Table Discussion		Sarah Tabbutt San Francisco
16:45	Pulmonary hypertension	17	Maurice Beghetti Geneva
17:15	<i>End</i>		

---



## Scientific Program Friday 16.03.2012

### Respiratory system

Chair: David Tingay Melbourne, Brian Kavanagh Toronto

09:00	Respiratory physiology and lung mechanics applied to intensive care	18	Andreas Schibler Brisbane
09:30	Old and new insights in ventilation associated lung injury	19	Brian Kavanagh Toronto
09:45	Ventilatory / nonventilatory strategies in neonatal RDS / CLD	20	David Tingay Melbourne
10:00	Ventilatory / nonventilatory strategies in pediatric ALI / ARDS	21	Brian Kavanagh Toronto
10:15	Difficult airway: the anesthesiologist's view	22	Markus Weiss Zurich
10:45	Coffee break		
11:15	Emergency intubation in the sick neonate	23	David Tingay Melbourne
11:25	Emergency intubation in the critically ill child	24	Andreas Schibler Brisbane
11:35	Management of analgesia/sedation in the ventilated child: is there a between pain disease, induced delirium and muscle weakness?	25	Dick Tibboel Rotterdam
12:05	Case presentation and Round Table Discussion		David Tingay Melbourne
12:35	Lunch		

## **Liver trauma and burn, metabolism**

*Chair: Dick Tibboel Rotterdam, Philip Spinella St Louis*

14:00	Management of severe necrotising enterocolitis	26	Dick Tibboel Rotterdam
14:15	– the intensivist’s view	27	Jeffrey Upperman Los Angeles
14:30	– the surgeon’s view	28	Manuel Dibildox Toronto
	The major burn patient: old and new aspects in pathophysiology and therapies		
15:00	Update on insuline therapy in the critically ill	29	Manuel Dibildox Toronto
15:15	– what are the new pros	30	Brian Kavanagh Toronto
	– and additional cons		
15:30	<i>Coffee break</i>		
	Multidisciplinary approach to life-threatening pediatric liver		
16:00	trauma and abdominal compartment syndrome	31	Jeffrey Upperman Los Angeles
16:30	– the surgeon	32	Philip Spinella St Louis
16:45	– the intensivist		Jeffrey Upperman Los Angeles
	Case presentation and Round Table Discussion		
17:15	<i>End</i>		

## Scientific Program Saturday 17.03.2012

### Brain

*Chair : Linda de Vries Utrecht, Joe Carcillo Pittsburgh*

- 09:00 Cerebrovascular physiology applied to intensive care  
09:15 Cerebral hemodynamics during transitional period  
09:30 Neurosurgical options in the treatment of intracranial hypertension  
10:00 Medical pediatric guidelines on severe head trauma  
10:20 Outcome prediction during / after neonatal hypothermia

- 33 Ben Wagner Berne  
34 Istvan Seri Los Angeles  
35 Ann-Christine Duhaime Boston  
36 Philip Spinella St Louis  
37 Linda de Vries Utrecht

10:40 *Coffee break*

Management of the neonatal posthemorrhagic hydrocephalus

- 11:10 – the surgical options  
11:25 – the medical options  
11:40 Case presentation and Round Table Discussion

- 38 Ann-Christine Duhaime Boston  
39 Linda de Vries Utrecht  
Linda de Vries Utrecht

### Heart-lung interaction

*Chair: Steven Schwartz Toronto*

- 12:10 Cardiopulmonary interactions in the critically ill child  
12:20 Cardiopulmonary interactions perinatally  
12:30 Cardiopulmonary interactions in single ventricle

- 40 Andreas Schibler Brisbane  
41 David Tingay Melbourne  
42 Sarah Tabbutt San Francisco

12:40 Farewell

Ben Wagner Berne

12:45 *End*