

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



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13th



EUROPEAN POSTGRADUATE
COURSE IN NEONATAL AND PEDIATRIC
INTENSIVE CARE MEDICINE

Bern, Switzerland
March 14th-16th, 2019



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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Welcome address

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@bbcongress.ch
www.bbcongress.ch



Organization and Accreditation

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



Faculty

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

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



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



Scientific program, March 16, 2017

- 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



Scientific program, March 16, 2017

- 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



Scientific program, March 16, 2017

15:30 – 18:20	Session III – Heart Disease Chair: Peter Laussen
15:30	Postnatal management of the decompensating neonate with CHD <i>Peter Laussen</i>
16:00	Cardiopulmonary interaction: how do I improve the circulation with/on the ventilator <i>Lara Shekerdeman</i>
16:15 – 16:45	Coffee break
16:45	Chronic and acute decompensated heart failure in the infant <i>Lara Shekerdeman</i>
17:15	ECLS in congenital heart disease <i>Peter Laussen</i>
17:40	Case presentation: do I follow the PCICS pharmacotherapy consensus statement? <i>Lara Shekerdeman</i>
18:00	Case presentation: do I follow the PCICS pharmacotherapy consensus statement? <i>Peter Laussen</i>
18:20	Cocktail
19:00 – 20:00	Industry-sponsored Symposium 1 – Details see page 21
20:00	End of day one



Scientific program, March 17, 2017

- 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 edged sword?**
Andreas Schibler
- 10:45 **Current and future status of ECLS for respiratory failure**
Anne-Marie Guerguerian



Scientific program, March 17, 2017

- 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



Scientific program, March 17, 2017

15:30 – 16:00	Coffe break
16:00	Case presentation: early interventions in the severely injured child <i>Kenneth Azarow</i>
16:25	Case presentation: hemostatic resuscitation in the severely injured child <i>Phil Spinella</i>
16:45 – 17:00	Miscellaneous Chair: Derek Wheeler
16:45	(Muscle) weakness in ICU <i>Werner Z'Graggen</i>
17:15	Situation awareness: predicting and preventing patient deterioration <i>Derek Wheeler</i>
17:30	Cocktail
18:10 – 19:10	Industry-sponsored Symposium 2 – Details see page 21
19:10	End of day two



Scientific program, March 18, 2017

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? <i>Anne-Marie Guerguerian</i>
08:30	Brain-oriented hemodynamic management in the critically ill newborn <i>Petra Lemmers</i>
09:00	High quality postresuscitation management: the pediatric patient <i>Vinay Nadkarni</i>
09:30	Neonatal aspects in postresuscitation management and prognostication <i>Petra Lemmers</i>
09:45	CPR in special circumstances: hyperkalemia, hypothermia, intoxication <i>Vinay Nadkarni</i>
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 <i>Peter Laussen</i>
10:50	ECPR: utilization, management and outcomes <i>Vinay Nadkarni</i>



Scientific program, March 18, 2017

- 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 **Pedatric 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



1st Bedside Ultrasound Workshop in Pediatric Emergency, Neonatal and Intensive Care Medicine
University Children's Hospital Bern; Tuesday – Wednesday March 14 – 15, 2017

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

Workshopleaders

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	Tuesday, March 14, 2017, 07:30 h Wednesday, March 15, 2017, 18:00 h										
Beginning and end of the Course	Thursday, March 16, 2017, 08:30 h 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><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></table>	Tuesday	March 14, 2017 07:30 – 08:00 h (Workshop only)	Wednesday	March 15, 2017 17:00 – 18:00 h	Thursday	March 16, 2017 07:30 – 19:00 h	Friday	March 17, 2017 07:30 – 18:00 h	Saturday	March 18, 2017 07:30 – 12:30 h
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Thursday	March 16, 2017 07:30 – 19:00 h										
Friday	March 17, 2017 07:30 – 18:00 h										
Saturday	March 18, 2017 07:30 – 12:30 h										



General Information

Registration fees

(prices in Swiss Francs CHF)

ESPNIC members:

450 CHF (until Dec. 15, 2016),

550 CHF (from Dec. 16, 2016)

Non members:

550 CHF (until Dec. 15, 2016),

650 CHF (from Dec. 16, 2016)

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 1st, 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

Accommodation	Rooms can be booked online with Bern Incoming GmbH. Please see www.intensivecarecourse.com
Podcast	The participants will have access to podcasts of the conferences after the course.
Public WiFi	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».
Course website	www.intensivecarecourse.com
Workshop website	www.bedsideultrasoundworkshop.com



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-Sign™ 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.

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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.



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University Children's Hospital Bern; Thursday – Saturday March 16 – 18, 2017

Sponsors

Anandic Medical Systems AG, Feuerthalen, Switzerland

Anklin AG, Binningen, Switzerland

Arcomed AG, Regensdorf, Switzerland

Dräger Schweiz AG, Liebfeld, Switzerland

Hamilton Medical AG, Bonaduz, Switzerland

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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, Liebfeld, 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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Wirkstoff: Distickstoffoxid, Sauerstoff 50 % mol/mol. **Darreichungsform:** Inhalationsgas. **Indikationen:** Analgesie und Anxiolyse bei Notfalltherapien und in der Geburtshilfe, bei schmerzhaften Eingriffen von kurzer Dauer. **Dosierung:** Der Fluss des Gasmisches wird durch die Ventilation der spontanen Atmung des Patienten bestimmt. **Anwendung:** Die Verabreichung muss durch medizinisch geschulte Personen erfolgen. ENTONOX[®] wird mit Hilfe einer Maske verabreicht, die an die Morphologie des Patienten angepasst ist. Die automatisch kontrollierte Verabreichung ist vorzuziehen. **Kontraindikationen:** Gesichtstrauma im Bereich der Maske, Pneumothorax, Gasembolie, nach Tauchgängen, in Verbindung mit einer Pneumoenzephalographie, nach einem kardiopulmonalen Bypass, bei Patienten mit Herz-Lungen-Maschine, bei einem ernsten Schädeltrauma, falls in den letzten 2 Monaten eine intraokuläre Gasinjektion verabreicht wurde, bei Anzeichen eines Darmverschlusses, Herzversagen oder ernste Funktionsstörungen des Herzens, erhöhten Schädelinnendruck, verringertes Bewusstsein und/oder verringerte Fähigkeit zur Mitarbeit. **Unerwünschte Wirkungen:** Schwindelgefühl, Benommenheit, Übelkeit und Erbrechen, zu starke Sedierung, sensorische Wahrnehmungsänderungen. Bei längerer oder wiederholter Verabreichung von ENTONOX[®] wurden neurologische Störungen wie Rückenmarks- oder Polyneuropathie sowie megaloblastische Anämie mit Leukopenie berichtet. Bei Anzeichen eines Mangels an Vitamin B12 sind Ersatz- oder Substitutionstherapien zu erwägen. **Interaktionen:** Möglichkeit von additiven Wirkungen zusammen mit anderen Arzneimitteln. **Sonstige Wechselwirkungen:** Anwendung von Distickstoffoxid führt zur Inaktivierung des Vitamins B12, was den Folsäurestoffwechsel beeinträchtigt. Längere Verabreichung beeinträchtigt die DNA-Synthese. Diese Störungen können zu megaloblastischen Veränderungen des Knochenmarks und möglicherweise zu Myeloneuropathie und subakuter kombinierter Degeneration des Rückenmarks führen. ENTONOX[®] darf als nur zeitlich begrenzt verabreicht werden. **Abgabekategorie:** B. Vollständige Fachinformation publiziert auf document.ch. **Pharmazeutischer Unternehmer:** PanGas AG, Industriepark 10, 6252 Dagmersellen, Telefon 0844 800 300, Fax 0844 800 301.

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transcutaneous digital monitoring
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and oxygenation

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