



# 30<sup>th</sup> International Workshop on Surfactant Replacement

Stockholm, Sweden  
June 5<sup>th</sup>- 6<sup>th</sup>, 2015

Friday, June 5<sup>th</sup>

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08.30 – 08.45 **WELCOME ADDRESS**

*Anders Hamsten, Vice-Chancellor of Karolinska Institutet, Stockholm, Sweden*  
*Tore Curstedt, Stockholm, Sweden*

**Chairpersons:** *Tore Curstedt (Stockholm, Sweden), Henry L. Halliday (Belfast, UK)*

08.45 – 09.30 **7<sup>th</sup> Bengt Robertson Memorial Lecture**

**THE RISKY BUSINESS OF PREDICTION**  
*Eric Shinwell (Tel Aviv and Tsfat, Israel)*

**Chairpersons:** *Ola Saugstad (Oslo, Norway), Mikko Hallman (Oulu, Finland)*

**Invited Lecture**

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09.30 – 10.20 **A UNIQUE STORY IN NEONATAL RESEARCH: THE DEVELOPMENT OF A PORCINE SURFACTANT**

*Tore Curstedt (Stockholm, Sweden)*  
*Henry L. Halliday (Belfast, UK)*  
*Christian P. Speer (Würzburg, Germany)*

10.20 – 10.50 **Coffee Break**

**Chairpersons:** *Rangasamy Ramanathan (Los Angeles, USA), Virgilio Carnielli (Ancona, Italy)*

**Invited Lecture**

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10.50 – 11.10 **SURFACTANT AND NON-INVASIVE VENTILATION**

*Mats Blennow (Stockholm, Sweden)*

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## Oral Presentations

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- 11.10 – 11.20 **LESS INVASIVE SURFACTANT ADMINISTRATION (LISA) IS SAFE: TWO YEAR FOLLOW-UP OF 476 INFANTS**  
*E. Herting, A. Kribs, B. Roth, C. Härtel, W. Göpel and members of the German Neonatal Network (GNN) (Cologne and Lübeck, Germany)*
- 11.20 – 11.30 **ATOMISED SURFACTANT IMPROVES OXYGENATION AND HOMOGENEITY OF VENTILATION IN SPONTANEOUSLY BREATHING PRETERM LAMBS RECEIVING CPAP**  
*I. Milesi, E. Zanin, R. Dellaca, A. Lavizzari, F. Mosca, P. Tagliabue, L. Ventura, F. Bianco, A. Rajapaksa, E. Zonneveld, D. Black, E. Perkins, M. Sourial, D.G. Tingay (Milan, Monza and Parma, Italy and Melbourne, Australia)*
- 11.30 – 11.40 **SUPRAGLOTTIC ATOMIZATION OF CUROSURF® VIA A NEW DELIVERY SYSTEM ALLOWS HIGH LUNG DEPOSITION**  
*A. Nord, R. Linner, I. Milesi, E. Zannin, R. Dellaca, F. Bianco, M. Di Castri, D. Cunha- Goncalves, V. Perez-de-Sa, (Lund, Sweden and Milan and Parma, Italy)*
- 12.40 – 11.50 **NEBULIZATION OF PORACTANT ALFA VIA A VIBRATING MEMBRANE NEBULIZER IN SPONTANEOUSLY BREATHING PRETERM LAMBS WITH BINASAL CONTINUOUS POSITIVE PRESSURE VENTILATION**  
*M. C. Hütten, E. Kuypers, D.R. Ophelders, M. Nikiforou, R.K. Jellema, H. Niemarkt, C. Fuchs, M. Tservistas, R. Razetti, F. Bianco, B. W. Kramer (Maastricht, The Netherlands, Aachen, Germany and Parma, Italy)*
- 11.50 – 12.05 **Discussion**
- 12.05 – 13.05 **Lunch and Poster Viewing**

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## 13.05 – 14.25 Poster Presentations 1

**Chairpersons:** David Sweet (*Belfast, UK*), Sture Andersson (*Helsinki, Finland*)

- Poster 1      **RESTROSPECTIVE ANALISYS OF SURFACTANT ADMINISTRATION IN PRETERM INFANTS IN NON INVASIVE RESPIRATORY SUPPORT: LISA VS INSURE PROCEDURE**  
F. Castoldi, P. Fontana, S. Martinelli, L. Ilardi, A. C. Marucco, P. Bastrenta, E. Lupo, S. Gatto, G. Lista (Milan, Italy)
- Poster 2      **COMPARISON OF THE SURFACTANT ADMINISTRATION VIA THIN CATHETER DURING SPONTANEOUS BREATHING WITH THE INSURE PROCEDURE IN PRETERM INFANTS**  
N. Akçay, A.S. Gokalp, A. Gunlemez, F. Kiliçbay, A.E. Arisoy, G. Turker (Kocaeli, Turkey)
- Poster 3      **NASAL CPAP VERSUS BI-LEVEL CPAP FOR EARLY RESCUE TREATMENT OF RESPIRATORY DISTRESS SYNDROME IN PRETERM INFANTS: PRELIMINARY REPORT**  
S. Arayici, G. Kadioglu Simsek, E. Alyamac Dizdar, B. Say, M.Y. Oncel, F.N. Sari, N. Uras, S.S. Oguz, F.E. Canpolat, U. Dilmen (Ankara, Turkey)
- Poster 4      **SURFACTANT TREATMENT COMPARED TO NASAL CONTINUOUS POSITIVE AIRWAY PRESSURE FOR THE MANAGEMENT OF RESPIRATORY DISTRESS SYNDROME IN THE NEWBORN BETWEEN 35 AND 41 WEEKS OF GESTATION (THE ASPEN STUDY)**  
P. Tourneux, T. Blanc, B. Guillois, S. Klosowski, J. Mourdie, C. Lardennois, H. Boumecid, V. Datin Dorriere, G. Kongolo, G. Ramadan-Ghostine, L. Ghyselen, C. Fontaine, F. Morea (Amiens, France)
- Poster 5      **EFFECTS OF SYNCHRONISED INTERMITTENT MANDATORY VENTILATION VS PRESSURE SUPPORT PLUS VOLUME GUARANTEE VENTILATION IN THE WEANING PHASE OF PRETERM INFANTS**
- Poster 6      **VOLUME GUARANTEE ON HIGH FREQUENCY OSCILLATORY VENTILATION IN PRTERM INFANTS: IS IT NEW LUNG PROTECTIVE STRATEGY**  
B. Iscan, N. Duman, F. Tuzun, A. Kumral, H. Ozkan (Izmir, Turkey)  
A.Erdemir, Z. Kahramaner, E. Turkoglu, H. Cosar, S. Sutcuoglu, E.A. Ozer (Izmir, Turkey)
- Poster 7      **EFFECT OF EXTERNAL INSPIRATORY LOADING ON DIAPHRAGMATIC FUNCTION OF PRETERM AND TERM INFANTS**  
G. Dimitriou, S. Fouzas, A. Vervenioti, P. Pelekouda (Patras, Greece)
- Poster 8      **EFFECTS OF BOLUS SURFACTANT THERAPY ON SERIAL PERIPHERAL PERFUSION INDEX AND TISSUE CARBON MONOXIDE MEASUREMENTS IN PRETERM INFANTS WITH SEVERE RESPIRATORY DISTRESS SYNDROME**  
D. Terek, D. Gönülal, O. Koroglu, M. Yalaz, M. Akisu, N. Kultursay (Izmir, Turkey)
- Poster 9      **PROTECTIVE EFFECTS OF VALPROIC ACID VIA SEVERAL MECHANISMS AGAINST HYPEROXIC LUNG INJURY IN A NEONATAL RAT MODEL**  
M. Cetinkaya, M. Cansev, F. Cekmez, C. Tayman, F. E. Canpolat, I. M. Kafa, E. O. Yaylagul, B.W. Kramer, S.U. Sarici (Istanbul, Turkey)
- Poster 10     **LUNG LAVAGE WITH DILUTE SURFACTANT VERSUS BOLUS SURFACTANT FOR MECONIUM ASPIRATION SYNDROME: A RANDOMISED CONTROLLED TRIAL**  
S. Arayici, F. N. Sari, G. Kadioglu Simsek, E. Yarci, E. Alyamac Dizdar, N. Uras, S.S. Oguz, F.E. Canpolat, U. Dilmen (Ankara, Turkey)

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Poster 11      **ANTENATAL STEROIDS AND PULMONARY OUTCOME IN NEONATES WITH A GESTATIONAL AGE  $\leq$  32 WEEKS**  
E. Gulczyńska, M. K. Borszewska-Kornacka, M. Kostuch, I. Krawczuk-Sawczanko, P. Korbal and the Polish study group (Łódź, Poland)

Poster 12      **NOVEL BIOMARKERS FOR THE ASSESSMENT OF INTRAAMNIOTIC INFECTION**  
V. Stefanovic, A. Sánchez-Illana, J. Kuligowski, S. Andersson, J. Escobar, I. Torres-Cuevas, A. Nuñez, E. Cubells, M. Cernada, M. Vento, C. Chafer-Pericas (Helsinki, Finland and Valencia, Spain)

## 13.05 – 14.25      **Poster Presentations 2**

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**Chairpersons:** Eren Özek (*Istanbul, Turkey*), Kris Sekar (*Oklahoma City, USA*)

Poster 13      **EVALUATION OF LUNG FUNCTION IN PRESCHOOL CHILDREN BORN LATE-PRETERM WITH IMPULSE OSCILLOMETRY**  
I. Er, A. Gunlemez, Z.S. Uyan, M. Aydogan, O. Isik, M. Oruc, A.E. Arisoy, G. Turker, A.S Gokalp (Kocaeli, Turkey)

Poster 14      **THE EFFECT OF CLARITHROMYCIN PROPHYLAXIS ON DEVELOPMENT OF BRONCHOPULMONARY DYSPLASIA IN PRETERM INFANTS**  
S. Yurttutan, R. Ozdemir, M.Y. Oncel, F.E. Canpolat, Ş.S. Oğuz, U. Dilmen (Malatya and Ankara, Turkey)

Poster 15      **DIAGNOSTIC ACCURACY OF LUNG ULTRASOUND IN THE CRASHING INFANT: AN INTERNATIONAL, PROSPECTIVE STUDY**  
F. Migliaro, J.R. Fanjul, S. Aversa, N. Youssef, I. Corsini, L. Grappone, A. Sodano, F. Raimondi on behalf of the LUCI investigators (Naples, Italy)

Poster 16      **EFFECT OF RECOMBINANT HUMAN ERYTHROPOIETIN ON TRACHEAL ASPIRATE INFLAMMATORY MARKERS IN VENTILATED PRETERM NEONATES**  
K. Sarafidis, A. Thomaidou, V. Soubasi, A. Taparkou, E. Diamanti, V. Drosou (Thessaloniki, Greece)

Poster 17      **THE EFFECTS OF MATERNAL ANTICOAGULANT THERAPY ON CORD BLOOD ANGIOGENIC FACTORS AND NEONATAL RESPIRATORY MORBIDITY IN WOMEN WITH RECURRENT MISCARRIAGE**  
S. Takci, S. Yigit, A. Korkmaz, M. Yurdakok (Ankara, Turkey)

Poster 18      **EARLY IMMUNOMODULATORY EFFECTS OF DIFFERENT NATURAL SURFACTANT PREPARATIONS IN PRETERM INFANTS WITH RESPIRATORY DISTRESS SYNDROME**  
M. Yalaz, S. Tanriverdi, O. Uygur, O. Altun Köroğlu, E. Azarsız, G. Aksu, N. Kültürsay (Izmir, Turkey)

Poster 19      **INTRANASAL SURFACTANT PROTEIN D AS NEUROPROTECTIVE RESCUE IN A NEONATAL RAT MODEL OF PERIVENTRICULAR LEUKOMALACIA**  
A. Kumral, B. Iscan, D. Engur, F. Tuzun, S. Ozbal, B. U. Ergur, M. K. Turkmen, N. Duman, H. Ozkan (Izmir, Turkey)

Poster 20      **EFFECTS OF PERINATAL STEROID THERAPY ON DEVELOPING BRAIN AND GROWTH FACTORS: WHAT IS THE CRITICAL TIME WINDOW?**  
B. Iscan, A. Kumral, F. Tuzun, S.C. Micılı, K. Tuğyan, N. Duman, H. Ozkan (Izmir, Turkey)

Poster 21      **ASSOCIATION OF E-NOS GENE POLYMORPHISM IN DEVELOPMENT OF BRONCHOPULMONARY DYSPLASIA**  
M. Çetinkaya, I. Varturk, M. Korachi, S. Guven, I. Mungan Akın, C. Kaspar, T. Erener Ercan, G. Buyukkale, S. Sevk Ozumut (Istanbul, Turkey)

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Poster 22      **DEVELOPMENT OF A NEW METHOD TO DETERMINE F2-ISOPROSTANES IN NEWBORN SERUM AND PLASMA SAMPLES**

S. Andersson, C. Cháfer-Pericás, J. Kuligowski, J. Escobar, A. Sánchez-Illana, I. Torres-Cuevas, V. Stefanovic, E. Cubells, M. Cernada, A. Nuñez, M. Vento, (Helsinki, Finland and Valencia, Spain)

Poster 23      **TARGETED NEXT GENERATION SEQUENCING FOR MUTATION DETECTION IN IDIOPATHIC NEONATAL AND PEDIATRIC DIFFUSE LUNG DISEASES**

O. Danhaive, D. Peca, R. Cutrera, A. Angioni (San Francisco, Usa and Rome Italy)

**Chairpersons:** Giuseppe Buonocore (*Siena, Italy*), Luc Zimmermann (*Maastricht, The Netherlands*)

## Invited Lectures

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14.30 – 15.10    **Lungs, Microbes and the Developing Neonate**  
*Aaron Hamvas (Chicago, USA)*

## Oral Presentations

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15.10 – 15.25    **MIXTURES OF CUROSURF AND POLYMYXIN E AND POLYMYXIN B ARE REDUCING PULMONARY AND SYSTEMIC BACTERIAL LOAD IN NEONATAL RABBIT PNEUMONIA**  
G. Stichtenoth, M. Hägerstrand Björkman, B. Linderholm, E. Herting, T. Curstedt (Stockholm, Sweden and Lübeck, Germany)

15.25 – 15.30    **CAN SURFACTANT PREPARATIONS BE USED AS DRUG CARRIER?**  
O. Basabe-Burgos, M. Haegerstrand-Björkman, B. Linderholm, K. Nordling, G. Stichtenoth, P. Bergman, T. Curstedt, J. Johansson, A. Rising (Stockholm, Sweden and Lübeck, Germany)

15.30 – 15.45    **EFFECTS OF THE NEW GENERATION SYNTHETIC SURFACTANT CHF5633 ON PRO- AND ANTI-INFLAMMATORY CYTOKINE RESPONSES IN CD14+ MONOCYTES AND CD4+ LYMPHOCYTES54**  
K. Glaser, M. Fehrholz, T. Curstedt, S. Kunzmann, S. Seidenspinner, C. P. Speer (Würzburg, German and Stockholm, Sweden)

15.45 – 16.15    **Coffee Break**

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**Chairpersons:** Richard Plavka (*Prague, Czech Republic*), Bo Sun (*Shanghai, China*)

## Invited Lecture

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16.15 – 16.55 **IMPAIRED PULMONARY VASCULAR DEVELOPMENT IN BRONCHOPULMONARY DYSPLASIA**  
*Christopher Baker (Denver, USA)*

## Oral Presentations

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16.55 – 17.10 **EARLY INTRAVENOUS PARACETAMOL AND PDA CLOSURE IN VERY PRETERM INFANTS; A RANDOMIZED, CONTROLLED TRIAL**  
P. Härkin, A. Härmä, O. Aikio, M. Valkama, M. Leskinen, T. Saarela, M. Hallman (Oulu, Finland)

17.10 – 17.25 **PHYSICAL ACTIVITY AND THE RISK OF PRETERM BIRTH: A SYSTEMATIC REVIEW AND META-ANALYSIS OF EPIDEMIOLOGICAL STUDIES**  
D. Aune, T. Henriksen, O.D. Saugstad, S. Tonstad, L.J. Vatten (Oslo and Trondheim, Norway)

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Saturday, June 6<sup>th</sup>

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Chairpersons: **Umberto Simeoni** (*Lausanne, Switzerland*), **Ben Stenson** (*Edinburgh, UK*)

## Invited Lecture

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08.30 – 09.00 **ANTENATAL STEROID BEFORE PRETERM BIRTH**  
*Mikko Hallman (Oulu, Finland)*

## Invited Lecture

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09.00 – 09.25 **INHALATION OR INSTILLATION OF STEROIDS FOR THE PREVENTION OF BRONCHOPULMONARY DYSPLASIA**  
*Dirk Bassler (Zürich, Switzerland)*

## Oral Presentations

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09.25 – 09.40 **OPPOSITE EFFECTS OF PROGESTERONE AND DEXAMETHASONE (DEX) ON SURFACTANT-PROTEIN B (SP-B) PRODUCTION**  
S. Kunzmann, M. Fehrholz, B. W. Kramer, C. P. Speer (Würzburg, Germany and Maastricht, The Netherlands)

09.40 – 09.55 **DEXPANTHENOL THERAPY REDUCES LUNG DAMAGE IN A HYPEROXIC LUNG INJURY IN NEONATAL RATS**  
R. Ozdemir, G. Demirtas, H. Parlakpınar, A. Polat, K. Tanbag, E. Taslidere, A. Karadag (Malatya, Turkey)

09.55 – 10.10 **A BPD-MODEL IN NEWBORN MICE**  
C. Revhaug, M. Zasada, A.G. Rognlien, A. Madetko-Talowska, M. Bik-Multanowski, P. Kwinta, P. Pietzyk, O.D. Saugstad (Krakow, Poland/Oslo, Norway)

10.10 – 10.40 **Coffee Break**

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**Chairpersons:** Jan Johansson (*Stockholm, Sweden*), Boris Kramer (*Maastricht, The Netherlands*)

## Invited Lecture

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10.40 – 11.20 **STEM CELLS FOR PREVENTION OF NEONATAL LUNG DISEASES**

Bernard Thébaud (*Ottawa, Canada*)

## Oral Presentations

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11.20 – 11.35 **MESENCHYMAL STEM- OR STROMAL CELLS (MSCS) FROM THE DEVELOPING HUMAN LUNG**

M.A. Möbius, S. Koss, D. Freud, R.K. Ohls, M. Rüdiger, B. Thébaud (*Dresden, Germany and Ottawa, Canada*)

11.35 – 11.50 **SAFETY ASPECTS OF INTRAVENOUS MESENCHYMAL STEM CELL TRANSPLANTATION IN PRETERM INFANTS**

E. Henckel, G. Götherström, K. Le Blanc, B. Hallberg, K. Bohlin (*Stockholm, Sweden*)

**Chairpersons:** Anton van Kaam (*Amsterdam, The Netherlands*), Max Vento (*Valencia, Spain*)

## Invited Lecture

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11.50 – 12.20 **DELIVERY ROOM HANDLING OF TERM AND PRETERM NEWLY BORN INFANTS**

Ola D. Saugstad (*Oslo, Norway*)

## Oral Presentations

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12.20 – 12.35 **CHANGING PATTERNS OF SURFACTANT USE OVER TWO DECADES FOR BABIES <30 WEEKS GESTATION IN NORTHERN IRELAND'S REGIONAL INTENSIVE CARE UNIT**

J.C.A Courtney, B. McNaughton, D. G. Sweet (*Belfast, UK*)

12.35 – 12.50 **RELEVANCE OF URINARY LIPID PEROXIDATION BYPRODUCTS IN PRETERM INFANTS FOR PREDICTING NEONATAL CONDITIONS**

J. Kuligowski, M. Aguar, D. Rook, I. Lliso, I. Torres-Cuevas, J. Escobar, G. Quintás, M. Brugada, Á. Sánchez-Illana, J. B. van Goudoever, M. Vento (*Valencia, Spain and Rotterdam and Amsterdam, The Netherlands*)

12.50 – 14.30 **Lunch**

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## POST CONFERENCE WORKSHOP

**Chairpersons:** **Jatinder Bhatia** (*Augusta, USA*), **Eric Shinwell** (*Tel Aviv and Tsfat, Israel*)

14.30 – 15.00 **ONSET OF BREATHING AND EMERGENCE OF THE MIND AT BIRTH**

*Hugo Lagercrantz (Stockholm, Sweden)*

15.00 – 15.30 **NEUROMONITORING THE HIGH RISK PRETERM INFANTS. ITS CLINICAL RELEVANCE?**

*Frank van Bel (Utrecht, The Netherlands)*

15.30 – 15.50 **Coffee Break**

15.50 – 16.20 **USE OF IT TO MONITOR NOSOCOMIAL INFECTIONS AND PREVENTIVE STRATEGIES**

*Dominique Haumont (Bruxelles, Belgium)*

16.20 – 16.50 **FAMILY CENTRED CARE**

*Kajsa Bohlin (Stockholm, Sweden)*

16.50 – 17.00 **CLOSING REMARKS AND INVITATION TO NAPLES**

*Tore Curstedt (Stockholm, Sweden), Giuseppe Buonocore (Siena, Italy)*

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