

THE 13TH DRESDEN SYMPOSIUM ESPR SPRING SCHOOL

Thursday - Friday, March 10th - 11th 2022

Dear friends and colleagues,

it is a great pleasure to invite you to our 13th annual “Dresden Symposium”, the ESPR spring school.

The meeting in March has become the kick-off for the academic year of clinicians and researchers who are interested in improving care of newborns. During the past decade, we had the honour to host many dear friends and colleagues in Dresden and to provide an atmosphere for scientific exchange.

In order to cope with the current situation, we initially hoped for a hybrid setting, however decided to have the meeting again online only. Nevertheless, we hope to keep the spirit of the meeting alive and to provide a platform for intensive exchange between clinicians and scientists who are interested in Delivery Room Management and in new developments in Neonatology. In order to address a broad range of relevant topics we have invited speakers to cover the following topics:

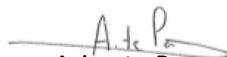
- *Prenatal Medicine meets Neonatology.*
- *Covid-19 effects on pregnancy and newborns.*
- *Artificial placenta and Perinatal Life Support.*
- *Exciting news from Stem Cell Research.*
- *Telemedicine in Neonatology.*
- *Current studies on DR-management.*
- *Management of late preterm infants.*
- *To breathe or not to breathe?*
- *PRO & CON: Improving research in DR-management*

You will find the detailed program below. By now, more than 200 participants from 28 different countries have registered. Thus, we hope to have great opportunities for intensive discussions.

We are looking forward to welcoming you



Mario Rüdiger



Arjan te Pas



Charles Christoph Röhr

PRELIMINARY PROGRAM DAY 1 – MARCH 10TH: THE FUTURE OF FETO-NEONATAL HEALTH

(Time is given as Central European Time)

9.00 Welcome to the 13th Dresden Symposium

Host (Rüdiger); ESCNR (te Pas); ESPR (Roehr)

9.15 – 11.00 am Prenatal Medicine meets Neonatology (Birdir/Dresden)

Management in DR depends on interdisciplinary collaboration. Distinguished obstetricians present recent data upon management of high-risk pregnancies and are happy to discuss it with Neonatologists.

- 09.15 – 09.35 Fetoscopic spina bifida repair (Michael Belford/Texas)
- 09.45 – 10.10 CDH Results of TOTAL trial (Jan Deprest/Leuven)
- 10.20 – 10.50 Future of medical learning: A king, an ox and Elon Musk (Todd Ponsky/Cincanatti)

11.00 – 11.30 pm Break

11.30 – 1.00 pm Covid-19: effect on pregnancy, neonates and long-term outcome (Mense/Dresden)

Covid-19 has affected our daily life. However, what does it mean for pregnant women and their newborns?

- 11.30 – 11.45 The CRONOS-registry – effects on pregnant woman (Zöllkau/Jena)
- 11.50 – 12.05 The CRONOS-registry – effects on newborns (Mand/Marburg)
- 12.10 – 12.25 CRONOS+ (Mense/Dresden)
- 12.30 – 12.50 From separation to reparation: Psychobiological aspects of pandemic stress during pregnancy (Livio Provenci/Italy)

12.55 – 1.25 pm Break and lunch

Use the time to get lunch and to discuss presentations with other participants.

1.25 – 2.45 pm Artificial placenta & Liquid-based Perinatal Life Support (PLS) (Reiss/Rotterdam)

Exposure of the preterm born fetus to an extra-uterine environment is associated with risk of organ damage. New technologies aim to enable fetal growth in a setting that mimics intra-uterine conditions.

- 1.25 – 1.40 Technical/design aspects of PLS (Frans van de Vosse/Eindhoven)
- 1.45 – 2.00 Clinical aspect of PLS (Willem de Boode/Nijmegen)
- 2.05 – 2.20 Ethical aspect of PLS (Joanne Verweij/Leiden)
- 2.25 – 2.40 The artificial placenta (Michael Narvey/Winnipeg)

2.45 – 3.00 pm Break

3.00 – 4.00 pm Exciting news from Stem Cell Research (Möbius/Dresden)

Development of the fetus is tightly regulated. Evidence is rising that Mesenchymal Stromal Cells (MSC) play an important role to regulate feto-neonatal development. Experts present recent developments in that field.

- 3.00 – 3.15 MSC to treat lung damage - What is new? (Thebaud/Ottawa)
- 3.20 – 3.35 MSC to treat neonatal ischemic stroke (Benders/Utrecht)
- 3.40 – 3.55 Effect of exogenous MSC on endogenous MSC (Möbius/Dresden)

4.00 – 4.15 pm Break

4.15 – 5.30 pm Telemedicine in Neonatology? (Eckart/Dresden)

Research is going on to improve care of the fetus and the newborn. International experts will present recent developments and discuss future direction of research and clinical care.

- 4.15 – 4.35 Recent developments in neonatal telemedicine (Fang/USA)
- 4.40 – 5.00 Virtual teaching (Wagner/Vienna)
- 5.05 – 5.25 Teleneonatology during the covid pandemic (Dewhurst/Liverpool)

5.30 – 6.00 pm The Roland-R-Wauer Award (Roehr/Bristol)

In memoriam of Professor Wauer, a Neonatologist, scientist, teacher and visionary, this Award supports medical students to visit neonatal units in Europe to experience first class neonatal research. The award is supported by Deutsche Stiftung Kranke Neugeborene (DSKN) and European Society for Paediatric Research (ESPR).

- 5.30 – 5.40 Presentation of the Award (Roehr/ESPR, Roll/DSKN),
- 5.40 – 5.50 Report from the Award winner 2021
- 5.50 – 6.00 Nomination of the winners for 2022

PRELIMINARY PROGRAM DAY 2 – MARCH 11TH: DELIVERY ROOM (DR) MANAGEMENT

(Time is given as Central European Time)

09.00 – 11.00 am Current studies on DR-management (te Pas/Leiden)

Management in DR depends very much on quality of scientific data. Distinguished speakers present recent data of clinical trials.

- 09.05 – 09.20** Video vs. direct laryngoscopy for nasotracheal intubation in neonates – a RC feasibility trial. (Susann Tippmann/Mainz)
- 09.25 – 09.40** Action research of video reflection of acute neonatal interventions (Veerle Heester/Leiden)
- 09.45 – 10.00** A clinical trial of spontaneous breathing in infants with CDH (Philip De Koninck/Rotterdam)
- 10.05 – 10.20** Nasal insertion depths for neonatal intubation (Christian Maiwald/Tübingen)
- 10.25 – 10.40** Comparison of nostril sizes of newborn infants with outer diameter of endotracheal tubes (Laila Springer/Tübingen)
- 10.45 – 11.00** High – flow nasal cannula (HFNC) as a primary respiratory support for very premature newborns in the delivery room (DR) (Klára Dunajová /Praha)
- 11.00 – 11.05** How many infants receive DR-interventions? Invitation for a registry (Falk Eckart /Dresden)

11.00 – 11.15 am Break

11.15 – 1.00 am Management of late-preterm and term infants (Roehr/Bristol)

Whereas the focus is often on extremely preterm infants, the management of late-preterm and term infants is of importance as well. Recent data upon management in the DR are presented and will be discussed.

- 11.15 – 11.30** The Besure approach (babycheck combined with pulse oximetry) to evaluate baby sickness (Elise Talsma/Leiden)
- 11.40 – 11.55** Tidal volumes delivered during DR stabilization of term and late preterm infants (Laila Springer/Tübingen)
- 12.00 – 12.15** Surfactant therapy in moderately and late-preterm infants (Angela Kribs/Köln)
- 12.20 – 12.35** Should we monitor healthy term infants to prevent death in the DR? (Christian Poets/Tübingen)
- 12.40 – 12.55** Stabilization of preterm infants skin to skin with nasal CPAP. (Sonja Baldursdottir/Stockholm)

1.00 – 1.30 pm Break and lunch

1.30 – 3.15 pm To breathe or not to breathe (Springer/Tübingen)

There is rising evidence showing the importance of spontaneous breathing during the first few minutes of life. Different aspects are discussed.

- 1.30 – 1.45** Feasibility of high CPAP levels in preterm infants at birth: what did we learn? (Tessa Martherus/Leiden)
- 1.50 – 2.05** Effects of tactile stimulation on spontaneous breathing during facemask ventilation (Vincent Gaertner/Zurich)
- 2.10 – 2.25** Work of breathing during resuscitation: is it an issue? (Kristol Kuypers/Leiden)
- 2.30 – 2.45** Chorioamnionitis and breathing at birth (Timothy Panneflek/Leiden)
- 2.50 – 3.05** Spontaneous breathing in infants with congenital diaphragmatic hernia? (Kipfmueller/Bonn)
- 3.10 – 3.25** Head position and its association with airway obstruction during face mask ventilation in the DR (Bianca Haase/Tübingen)

3.30 – 4.00 pm Break

4.00 – 5.00 pm Multi-perspective Discussion: Improving research in DR-management (Jonathan Wyllie)

Several questions are still waiting for an answer. Supporting transition of newborn infants in the DR is part of daily business of Neonatologists. Therefore, it is important to get a regular update on new developments in DR-management. International experts will summarize the current knowledge and will be able to answer emerging questions.

- 4.00 – 4.15** Use a common set of outcome data! (Liz Foglia/Philadelphia)
- 4.15 – 4.30** Make it pragmatic! (Colm O'Donnell/Dublin)
- 4.30 – 4.45** Randomised controlled trials are needed! (Roger Soll/Vermont)
- 4.45 – 5.00** Round table discussion