

DRESDEN SYMPOSIUM ON FETO/NEONATAL HEALTH 2030

Improving feto/neonatal Health [Thursday, 13th of March 2025]

09:00 – 10:30 am The intra-uterine child (Cahit Birdir)

By focussing on different organ systems, recent data on fetal development are presented by international experts and approaches to improve neonatal health are discussed.

- 09:00 am** **Welcome to the 16th Dresden Symposium**
Host (Rüdiger), ESCNR (te Pas), ESPR (Roehr)
- 09.15 – 09.35** Fetal lung development: From embryology to clinical practice (Przemyslaw Kosinski, Medical University of Warsaw, Poland)
- 09.40 – 10.00** Fetal Neurosonography: Simple signs for complex brain malformations" (Katrin Karl, Munich, Germany)
- 10.05 – 10.25** Fetal problems of the urogenital tract (Cahit Birdir, Medical University Dresden, Germany)

10.30 – 11.00 Break and exchange with companies

Use the time to get a coffee and to talk with different companies.

11:00 – 12.20 The extra-uterine fetus (Cornelia Wiechers)

Distinguished speakers focus on specific neonatal problems originating in disturbed fetal development and present recent developments.

- 11.00 – 11.15** Prenatal and neonatal management in twin pregnancies – current approaches (Enrico Lopriore, Medical University Leiden, Netherlands)
- 11.20 – 11.35** Postnatal Management of CDH (NN – Medical University Rotterdam, Netherlands)
- 11.40 – 11.55** Does telemedicine help to improve ROP-screening (Melih Parlak, Medical University Ulm, Germany)
- 12.00 – 12.15** Can a wearable incubator help to prolong Skin-to-Skin contact? (Itamar Nitzan, Skincubator neocare, Delaware USA)

12:20 – 12:40 Morning Key-Note Lecture (Sven Helfer)

Chances and challenges of Computational Health (Markus Vogel, Microsoft)

12.45 – 01.45 Break and lunch

Use the time to get a coffee and exchange experiences with participants and companies.

01:45 – 02.10 Afternoon Key-Note Lecture (Josephin Jahnke)

Did the long-term outcome improve during the past decades? (Dieter Wolke, University Warwick, UK)

02.15 – 03.45 pm What can we do to improve long-term outcome? (Dieter Wolke)

Long-term health is significantly determined by psycho-social aspects, offering an unique window of opportunity for pre- and postnatal interventions. Experts will present new developments.

- 02.15 – 02.30** Neonatal Ward Rounds with parents (Cornelia Wiechers, University Tübingen, Germany)
- 02.35 – 02.50** Why do we need a dedicated psycho-social support program (Josephin Jahnke, University of Dresden)
- 02.55 – 03.10** Into psychobiological superpowers of parenting: From research to collaborative care actions (Livio Provenzi, University of Pavia, Italy)
- 03.15 – 03.30** General movements – not only a diagnostic but also therapeutic tool (Sven Wellmann – University Regensburg, Germany)

03.35 – 04.15 pm Break

Use the time to get a coffee and exchange experiences with participants and companies.

04.15 – 05.30 pm Regenerative Therapies (Möbius/Dresden)

Cellular therapies represents a unique approach not only to prevent but also to prevent some diseases originating in the feto/neonatal period. Current developments are summarised by experts in the field.

- 04.15 – 04.35** MSC to protect the lung (*Bernard Thebaud*, OHRI Ottawa, Canada)
- 04.40 – 05.00** MSC to protect the brain (*Nikki Robertson*, University College London, United Kingdom)
- 05.05 – 05.25** Spinal Cord injury (*Boris Kramer*)

05.30 – 06.00 pm The Roland-R-Wauer Award

In memoriam of Professor Wauer the Roland-R-Wauer Award supports medical students to visit neonatal units throughout Europe to help experience first class neonatal research. The award is supported by the Deutsche Stiftung Kranke Neugeborene (DSKN) and the European Society for Paediatric Research (ESPR).

- 05.30 – 06.00** Introducing the Award & Nominate Winners 2025
(*Peter Bartmann/DSKN; Willem de Boode/ESPR*)

From intra- to extra-uterine life [Friday, 14th of March 2025]

(Time is given as Central European Time)

09.00 – 09.55 am **New clinical studies** (Arjan te Pas)

New interventions are studied in clinical practice. First results of recent and mainly unpublished studies are presented and discussed with the audience.

- 09.00 – 09.10** NEU-Stim – a pragmatic trial on stimulation (O'Donnell & Dekker)
- 09.15 – 09.25** HFNC vs. CPAP for respiratory stabilization of VLBW infants (Tereza Lamberska, Prague)
- 09.30 – 09.40** How to improve DR-temperature (Nadira Kasimova, Republican Perinatal Center Tashkent, Uzbekistan)
- 09.45 – 09.55** Oxygen on the cord trial (Anup Katheria, USA)

10.00 – 11.00 am **Young investigator award** (Springer & Dekker)

Six junior scientists present their research in 5 minutes and discuss it with participants. Participants chose the best presentation and the most fascinating topic.

11.00 – 11.30 am **Break and exchange with companies**

Use the time to get a coffee and to discuss presentations with other participants and different companies.

11.30 – 11.55 am **Key Note Lecture**

Update on Current ILCOR-Consensus of Science Treatment Recommendations
(Helen Liley, University of Queensland, South Brisbane, Australia)

12.00 – 01.05 pm **What are we doing in DR** (Janneke Dekker)

Management of newly born babies in the delivery room represents daily work in neonatology. Despite local and international guidelines, there are large variations in management.

- 12.00 – 12.10** The SCIN-collaborative - an international perspective of DR-Management (Falk Eckart, Universitäts-Kinderspital Zürich - Eleonorenstiftung, Switzerland)
- 12.15 – 12.25** Challenging Moments in the Delivery Room – 5 cases to discuss (Gustavo Rocha, Centro Hospitalar Universitário de São João, Porto, Portugal)
- 12.30 – 12.40** How to intubate and give Surfactant (Lars Mense, University Hospital Dresden, Germany)
- 12.45 – 12.55** What we do (not) know about neonatal body temperature and postnatal temperature management. (Lukas Miledner, Medical University Graz, Austria)
- 01.00 – 01.10** How is the situation with our friends in Ukraine? (Viktoriia Petraschenko, Sumi, Ukraine)

01.10 – 02.10 pm **Break and lunch**

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

02.10 – 03.45 pm **The new guidelines are on the Horizon** (Charles Christoph Roehr)

In 2025, new guideline will be published around the world. Distinguished speakers are invited to present their thoughts upon issues that should be addressed.

- 02.10 – 02.25** Short introduction (Charles C. Roehr, Bristol, Great Britain)
- 02.30 – 02.45** Physiological based cord clamping in preterms: experience matters (Arjan te Pas, Leiden Medical University, Netherlands)
- 02.50 – 03.05** Umbilical cord milking – when should it be done? (Anup Katheria, USA)
- 03.10 – 03.25** What do we know about heart rate monitoring at birth (Mandira Dariya Kawakami, Federal University of Sao Paulo, Brazil)
- 03.30 – 03.45** When to use the neonatal algorithm? (Anne Lee Solevag, Oslo, Norway)

03.45 – 04.05 pm **Break and exchange with companies**

Use the final break to discuss presentations with other participants and different companies.

04.05 – 04.15 pm Announcement of Young Investigator Award

04.20 – 05.20 pm New ideas to improve postnatal adaptation (Colm O'Donnell)

Translation of experimental data into clinical practice and into general is challenging. Different initiatives have evolved to improve management.

04.20 – 04.35 Stabilisation of the chest wall to improve lung aeration at birth (Indya Davies, Melbourne, Australia)

04.40 – 04.55 Teaching ambulances (NN)

05.00 – 05.15 Global Neonatal Resuscitation Alliance (GNRA) (NN)

05.20 – 06.05 pm Video presentations (Helmut Küster)

Hands-on Workshops [Saturday, 15th of March 2025]

How to ventilate the difficult lung (Christoph Schwarz)

If you do have experience in neonatal ventilation but want to discuss difficult pulmonary situations – that is the best workshop for you.

Christoph Schwarz provides the chance for hands-on training of ventilation by using a highly sophisticated neonatal lung model. You can use a ventilator and try to ventilate different pulmonary settings in simulation lung. Furthermore, you can exchange your ideas with participants and experienced neonatologists.

[Maximal number of participants: 12]



How to take care of an extremely preterm infant (Lars Mense)



You want to improve your management of extremely preterm infants in the delivery room – then you should not miss the workshop.

At birth, extremely preterm infants require specialised support of their transition into ex-utero life. A gentle approach of delivery room management has been established locally through the last decade. Lars Mense will discuss techniques, policies, data and experiences with participants. Furthermore, patient cases will be simulated in this workshop.

[Maximal number of participants: 12]

How to introduce telemedicine in neonatal care (Sven Helfer)

If you want to improve neonatal support in different hospitals by telemedicine, than you can discuss the details with experts.

Delivery room management is crucial to provide an optimal start into neonatal life. Telemedicine offers the great opportunity to support resuscitation; however, special training is needed for efficient support. The course offers the chance to train how to interact in that situation and how to introduce it into clinical routine setting.

[Maximal number of participants: 10]



How analysing delivery room management by peer discussion may help improving neonatal resuscitation performance (Maxi Kaufmann/Lukas Mileders)

Video-assisted debriefing has been shown to be an important and effective tool not only in simulation training. We will discuss the existing evidence, the structural and technical requirements and the challenges during implementation of video-assisted debriefing in neonatal resuscitation.

[Maximal number of participants: 12]

Learn more about how to use AI-applications (Markus Vogel)

If you want to use artificial intelligence for your clinical work or to perform research – that workshop gives you some practical insides.

The distinguished expert will explain Copilots that allows you to summarize PDF-documents at a glance. Furthermore, you get an introduction to medical multi-modal AI models, allowing analysis from a combination of pictures and text. Finally, the Conversational Data Connector is presented, which allows you to transform conversational information into databases which enables you to perform subsequent structured analysis.

Bring your own laptop in order to experience the opportunities by yourself!

Learn more about the possibilities of video-assisted intubation and surfactant application in neonatology (Gabriele Voss)

Try by yourself and see how our video laryngoscope can help you to master difficult oral and nasal intubations in neonatology. In the workshop, we place special emphasis on the option to apply surfactant using the LISA method with an appropriate adapter, as well as on the video recording capabilities.

This course takes place during lunchtime.

The Dresden Symposium is partially supported by Deutsche Forschungsgesellschaft (DFG).