

DRESDEN SYMPOSIUM ON FETO/NEONATAL HEALTH 2030

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

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.

- Fetal lung development: From embryology to clinical practice (**Przemyslaw Kosinski**, Medical University of Warsaw, Poland)
- Fetal Neurosonography: Simple signs for complex brain malformations" (**Katrin Karl**, Munich, Germany)
- Fetal problems of the urogenital tract (**Cahit Birdir**, Medical University Dresden, Germany)

The extra-uterine fetus (*Cornelia Wiechers*)

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

- Prenatal and neonatal management in twin pregnancies – current approaches (**Enrico Lopriore**, Medical University Leiden, Netherlands)
- Postnatal Management of CDH (**Rony Knol** – Medical University Rotterdam, Netherlands*)
- Does telemedicine help to improve ROP-screening (**Melih Parlak**, Medical University Ulm, Germany)
- Can a wearable incubator help to prolong Skin-to-Skin contact? (**Itamar Nitzan**, Shaare Zedek Medical Center Jerusalem, Israel)

Morning Key-Note Lecture (*Sven Helfer*)

- Chances and challenges of Computational Health (**Umang Patel / Markus Vogel**, Microsoft*)

Afternoon Key-Note Lecture (*Josephin Jahnke*)

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

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.

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

Regenerative Therapies (*Marius Möbius*)

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.

- MSC to protect the lung (**Bernard Thebaud**, OHRI Ottawa, Canada)
- MSC to protect the brain (**Nikki Robertson**, University College London, United Kingdom*)

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

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.

- DD-Surf (**Lars Mense**, University Hospital Dresden, Germany)
- How to improve DR-temperature (**Nadira Kasimova**, Republican Perinatal Center Tashkent, Uzbekistan)
- Oxygen on the cord trial (**Anup Katheria**, USA)

Key-Note Lecture (Mario Rüdiger)

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

The new guideline is on the Horizon (Liz Foglia)

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

- Stabilisation of preterm infants vs. resuscitating newborns – does it make a difference? (**Arjan te Pas**, Leiden Medical University, Netherlands)
- Umbilical cord milking – when should it be done? (**Anup Katheria**, USA)
- What do we know about (**Mandira Daripa Kawakami**, Federal University of Sao Paulo, Brazil)
- When to use the neonatal algorithm? (**Anne Lee Solevag**, Oslo, Norway*)

What are we doing in the 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.

- The SCIN-collaborative - an international perspective of DR-Management (**Falk Eckart**, University Hospital Zurich, Switzerland)
- Challenging Moments in the Delivery Room – 5 cases to discuss (**Gustavo Rocha**, Centro Hospitalar Universitário de São João, Porto, Portugal)
- How to intubate and give Surfactant (**Lars Mense**, University Hospital Dresden, Germany)
- What we do (not) know about neonatal body temperature and postnatal temperature management. (**Lukas Miledler**, Medical University Graz, Austria)

Initiatives to improve DR-management (Colm O'Donnell)

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

- Video reflexion in pregnant women. (**Thomas van den Anker**; Leiden Medical University, Netherlands*)
- Teaching ambulances (**John Madar**; University Hospitals Plymouth, UK*)
- Global Neonatal Resuscitation Alliance (GNRA) (**Elizabeth Foglia**, Childrens Hospital Philadelphia*)

** Participation not confirmed yet*

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 – than 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 to use artificial intelligence (Markus Vogel*)

You have no idea what benefit brings artificial intelligence for your clinical practice or your research - than join the workshop.

[Maximal number of participants: 12]