

## Scientific advisory board / Information

### Who is organising the Symposium?

Mario Rüdiger  
Lars Mense; Marius Möbius; Falk Eckart

- **Scientific advisory board – Regenerative Therapies**  
Bernard Thebaud (Ottawa)
- **Scientific advisory board – DR-management**  
Elizabeth Foglia (Philadelphia); Arjan te Pas (Leiden); Charles Christoph Roehr (Oxford); GNPI – neonatal resuscitation group
- **ESCNR – Young Investigator Price**  
GNPI-neonatal resuscitation group (Laila Springer, Michael Wagner, Christoph Rüggeger, Lukas Mileder, Maxi Kaufmann, Vincent Gärtner)

## You are invited to actively participate in

- **Presentation of a case or SOP**<sup>1</sup>  
Register at: Kuester@NIQ.eu
- **Discussing your stem cell research**<sup>1</sup>  
Register at: sabine.resch@ukdd.de
- **Video of DR-management**<sup>2</sup>  
Register at: Kuester@NIQ.eu
- **presenting results of your research**<sup>2</sup>  
Details of application will be announced at [www.ukdd.de/fetoneoSymposium](http://www.ukdd.de/fetoneoSymposium). The audience will select the best presentation by vote.
- **Meeting the expert**  
To have the session as productive as possible, there will be a maximum of 10 participants per expert group.  
Therefore, please register early!  
Register at: sabine.resch@ukdd.de

Further information can be found at [www.neonatal-research-dresden.de](http://www.neonatal-research-dresden.de) or by mail [sabine.resch@ukdd.de](mailto:sabine.resch@ukdd.de)

<sup>1</sup> If you present your case or SOP we will cover your registration fee.

<sup>2</sup> If you are chosen to present a video or your research we will cover registration fee and will arrange accommodation for 2 nights.

<sup>3</sup> Additional 40 € have to be charged for payment after 1<sup>st</sup> of March 2020.

## Registration / Location / Travel

### How to register?

The number of participants is restricted to 150.

Thus, a registration is required.

Please register by E-Mail at: [sabine.resch@ukdd.de](mailto:sabine.resch@ukdd.de)

Tel.: +49 351 458-3640

### What to pay for participation?

If you register until January 30th, 2023 there will be a charge of 120 €, thereafter of 150 €. Furthermore, there will be a separate charge for ESPR-course on Saturday.

### To be paid after receiving confirmation of registration at:

Name of beneficiary: Carl Gustav Carus Management GmbH

Bank: Deutsche Kreditbank AG

IBAN: DE 71 1203 0000 0011 248 333

BIC: BYLADEM1001

Password: TEST-APGAR

### What about CME credits?

Participants will get CME credits from the „Sächsische Landesärztekammer“.

### What is the language, is the Symposium on the web?

Presentations are given in English only.

A live presentation of the symposium via internet is planned for participants who cannot come to Dresden.

### Where is the Symposium held?

Medical-Theoretical Centre (MTZ), Building 91, Faculty of Medicine Carl Gustav Carus, Technische Universität Dresden; Fiedlerstr. 42, 01307 Dresden

### How the Symposium can be reached?

**By Train:** Dresden Neustadt ▶ Tram 6 to Augsburger Strasse; Dresden Hauptbahnhof ▶ Tram 12 (Prager Strasse) to Augsburger Strasse

**By Plane:** Dresden Airport (from Munich, Frankfurt, Düsseldorf) ▶ S-Bahn to "Dresden Neustadt" ▶ Tram 6 to Augsburger Strasse; or to Berlin-Schönefeld/Tegel and by train or bus (2 hours)

**By Boat:** Dresden is situated on the river Elbe, thus you can use your Yacht.



## 14<sup>th</sup> Dresden Symposium

on Delivery Room Management  
and Regenerative Therapies together with

## ESPR-Spring School

9<sup>th</sup> – 11<sup>th</sup> of March 2023



European Society  
for Paediatric Research

A joint meeting of the  
European Society for Paediatric Research (ESPR)

with European Collaboration of Neonatal  
Resuscitation (ESCNR), MASC-Prematurity task force  
and Department for Neonatology and Pediatric  
Intensive Care Medicine

Saxony Center for Feto-neonatal Health  
University Hospital C. G. Carus, Dresden, Germany



Saxony Center  
for Feto/neonatal  
Health

## Invitation

Dear friends and colleagues,

with great pleasure we invite you to our **14<sup>th</sup> 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 new-borns. 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.

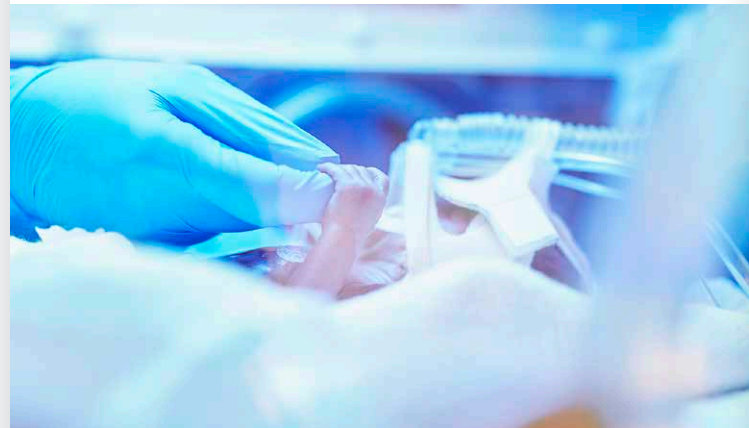
In order to cope with the current situation, we currently plan to have the meeting in 2023 within a hybrid setting. We would be very happy if we can welcome you in person in Dresden. As already introduced a decade ago, we will also provide online access for participants who are not able to come. We hope 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 cover a broad range of relevant topics we have invited speakers to cover the following topics:

- How to treat the intra-uterine child and the extra-uterine fetus.
- Recent advances on stem cell research and on the treatment of asphyxiated infants.
- Does technique help to improve DR-management?
- What to expect from the next few years?
- What is the best way to teach delivery room management.
- Young investigators present their research projects.



European Society  
for Paediatric Research



The programme is divided into two parts: on Thursday and Friday, you will have the opportunity to attend cutting-edge lectures in Delivery Room Management and new approaches in Neonatology. On Saturday, the highly-interactive ESPR courses offer a chance to young clinicians from different parts of the world on pertinent to optimal perinatal management and quality improvement. You will find more details at [www.ukdd.de/fetoneoSymposium](http://www.ukdd.de/fetoneoSymposium).

As always, we are interested to provide the opportunity for intensive discussions. Therefore, we restrict the meeting on Thursday and Friday in person to 150 participants. If you **register until January 30<sup>th</sup>, 2023** there will be a **charge of 120 €, thereafter of 150 €**. Furthermore, there will be a **separate charge for ESPR-course** on Saturday. There will be no charge for online participants, however, you are required to register at [sabine.resch@ukdd.de](mailto:sabine.resch@ukdd.de). If you are not available, you will have the chance to watch the recording of the meeting thereafter.

Together with the GNPI-neonatal resuscitation group we are looking forward to seeing you in March 2023 in Dresden

Mario Rüdiger

Arjan te Pas

Charles Christoph Röhr

## Short Programme

### The Future of Feto-Neonatal Health

**Thursday, 9<sup>th</sup> of March 2023**

Advances in improving feto-neonatal Health are discussed from different perspectives: Consequences of feto-neonatal development on our care, international initiatives to improve care, current data on treatment of perinatal asphyxia and finally current results and challenges associated with clinical application of stem cells in different patient groups.

In the evening you are cordially invited to meet our experts and join our BYO dinner. We will offer some food and you are invited to bring some local food or drinks from your home-town to share it with your colleagues.

### Delivery Room Management

**Friday, 10<sup>th</sup> of March 2023**

Distinguished speakers will present current knowledge on delivery room management. We will discuss recent results of research and will get an impression on how technique will help to improve DR-management.

If you are a young investigator, please submit your abstract **until January, 31** in order to present your data and win the Young investigator award. For further details please look at [www.ukdd.de/fetoneoSymposium](http://www.ukdd.de/fetoneoSymposium).

### ESPR courses on pertinent to optimal perinatal management and quality improvement

**Saturday, 11<sup>th</sup> of March 2023**

Use the chance to learn more about delivery room management. In small groups you have the unique chance to train your skills and discuss management with distinguished experts.

If you are interested, please register at: [sabine.resch@ukdd.de](mailto:sabine.resch@ukdd.de). Further information will be regularly updated and can be found at [www.ukdd.de/fetoneoZentrum](http://www.ukdd.de/fetoneoZentrum)

# Preliminary Programme

## The Future of Feto-Neonatal Health

Thursday, 9<sup>th</sup> of March 2023

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|                                |  |
|--------------------------------|--|
| <b>9:00 am</b>                 | <b>Welcome to the 14<sup>th</sup> Dresden Symposium</b><br><i>Host (Rüdiger, ESCNR (te Pas), ESPR (Roehr)</i>  |
| <b>9:15 am –<br/>11:00 am</b>  | <b>The intra-uterine child and the extra-uterine fetus</b><br>Distinguished speakers focus on feto-neonatal development and discuss consequences for our care. |
| 9:15 am –<br>9:35 am           | The Obstetricians view on managing extreme preterm birth<br><i>Ms Jo Crofts (UK)</i>   |
| 9:40 am –<br>10:00 am          | Fetales Hb – does it matter?<br><i>Reiss / Rotterdam</i>   |
| 10:05 am –<br>10:25 am         | BPD – more than inflammation?<br><i>Möbius / Dresden</i>   |
| 10:30 am –<br>10:50 am         | Pharmacology of the placenta and the fetus<br><i>Sinno Simons / Rotterdam</i>  |
| <b>11:00 am –<br/>11:30 am</b> | <b>Break and exchange with companies</b><br>Use the time to get a coffee and to talk with different companies.   |
| <b>11:30 am –<br/>1:00 pm</b>  | <b>How to improve care of the extra-uterine fetus?</b><br>Experts re-focus our view on the preterm infant and describe initiatives on how to improve care.     |
| 11:30 am –<br>11:45 am         | Periprem – a quality improvement bundle / initiative to improve preterm outcomes – fit for all?<br><i>Sarah Bates (UK)</i>                                     |
| 11:50 am –<br>12:05 pm         | Resuscitation of extremely immature infants (22 – 25 wks.) – Seeking Clarity in the Gray Zone<br><i>Foglia / Philadelphia</i>                                  |
| 12:10 pm –<br>12:25 pm         | Red blood cells and platelet transfusions for preterm neonates: Panacee or Trojan horses?<br><i>Lopriore / Leiden</i>  |
| 12:30 pm –<br>12:45 pm         | Intra- and extra-uterine head growth – how to monitor head deformities<br><i>Fritze / Dresden</i>  |
| <b>12:45 pm –<br/>1:45 pm</b>  | <b>Break and lunch</b><br>Use the time to get lunch and to discuss presentations with other participants and different companies.                              |
| <b>1:45 pm –<br/>2:15 pm</b>   | <b>Key-note lecture</b><br>Influence of chorioamnionitis – brainstem inflammation and injury in preterm newborns<br><i>Polglase / Melbourne</i>                |

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Time is given as Central European Time

# Preliminary Programme

## The Future of Feto-Neonatal Health

Thursday, 9<sup>th</sup> of March 2023

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|                                    |   |
|------------------------------------|---|
| <b>2:20 pm –</b><br><b>3:40 pm</b> | <b>Asphyxia and Hypoxic Ischemic Encephalopathy</b><br>Perinatal Asphyxia is still responsible for a major burden of disease in term infants. We will present the current status of therapeutic interventions.  |
| 2:20 pm –<br>2:40 pm               | An update of current management of infants with HIE<br><i>Hoehn / Düsseldorf</i>  |
| 2:45 pm –<br>3:05 pm               | A structured SOP for Hypothermic treatment<br><i>Sabir / Bonn</i>   |
| 3:10 pm –<br>3:30 pm               | Hypothermic treatment in Ukraine<br><i>Babinzewa / Chernivtzi</i>   |
| <b>3:40 pm –</b><br><b>4:00 pm</b> | <b>Break</b><br>Use the time to get a coffee and to discuss presentations with other participants and different companies.  |
| <b>4:00 pm –</b><br><b>5:30 pm</b> | <b>Exciting news from Stem Cell Research</b><br>Stem cell therapy could be beneficial in order to treat or prevent neonatal diseases. Distinguished speakers will present results and challenges associated with clinical application of stem cells in different patient groups.  |
| 4:00 pm –<br>4:25 pm               | Intranasal mothers milk in infants with IVH – impact on spinal fluids proteom<br><i>Kribs / Köln</i>  |
| 4:30 pm –<br>4:55 pm               | MSC to treat Sepsis / Covid<br><i>McIntyre / Ottawa</i>   |
| 5:00 pm –<br>5:25 pm               | From an idea to an EMA approved product: stem cell therapy in spinal cord injury<br><i>Kramer / Maastricht</i>  |
| <b>5:30 pm –</b><br><b>6:00 pm</b> | <b>The Roland-R-Wauer Lecture and Award</b><br>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). |
| 5:30 pm –<br>5:40 pm               | Introducing the Award<br><i>Roehr</i>   |
| 5:40 pm –<br>5:50 pm               | Report from the Award winner 2022   |
| 5:50 pm –<br>6:00 pm               | Brigitte Wauer will nominate the winners for 2023   |
| <b>5:30 pm</b>                     | <b>Meet the experts in private and BYO-Dinner</b><br>As in previous years you will have the chance to meet the experts. To make it more interactive, we will offer some food and you are invited to bring some local food or drinks to share it with your colleagues.   |

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# Preliminary Programme

## Delivery Room Management

Friday, 10<sup>th</sup> of March 2023

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|--------------------------------------|--|
| <b>9:00 am –</b><br><b>10:20 am</b>  | <b>Current studies on DR-management</b><br>Management in DR depends very much on quality of scientific data. Distinguished speakers present recent data of clinical trials.<br><i>te Pas / Leiden</i>                                  |
| 9:05 am –<br>9:15 am                 | NEU-Stim – a pragmatic trial on stimulation<br><i>O'Donnel / Dekker</i>  |
| 9:20 am –<br>9:30 am                 | Survey on Currently applied Interventions in Neonatal resuscitation (SCIN)<br><i>Kaufmann &amp; Eckart / Dresden</i>   |
| 9:35 am –<br>9:45 am                 | Surfactant Nebulization for the Early Aeration of the Preterm Lung (SUNSET)<br><i>Gaertner / Munich</i>  |
| 9:50 am –<br>10:00 am                | Synchronized non-invasive intermittent positive pressure ventilation as primary support for very preterm infants in the first ten minutes after birth-a pilot Study<br><i>Warth / Tübingen</i>   |
| <b>10:00 am –</b><br><b>11:00 am</b> | <b>Young investigator award</b><br>Six junior scientist present their research in 5 minutes and discuss it with participants. Participants chose the best presentation and the most fascinating topic.<br><i>Springer &amp; Wagner</i> |
| <b>11:00 am –</b><br><b>11:30 am</b> | <b>Break and exchange with companies</b><br>Use the time to get a coffee and to discuss presentations with other participants and different companies.   |
| <b>11:30 am –</b><br><b>12:00 pm</b> | <b>Key Note Lecture</b><br>Pregnancy and Birth in the animal world<br><i>Hildebrandt / Berlin</i>  |
| <b>12:10 pm –</b><br><b>1:15 pm</b>  | <b>Does technique help to improve DR-management?</b><br>There are several technical developments which could help to improve management in the delivery room. Our speakers will give an overview on current developments.              |
| 11:30 am –<br>11:45 am               | Adaptive Virtual Reality Neonatal Resuscitation Training using cognitive load<br><i>Wagner / Vienna</i>  |
| 11:50 am –<br>12:05 pm               | Anatomic accuracy, physiologic characteristics, and fidelity of very low birth weight infant airway simulators<br><i>Deindl / Hamburg</i>  |
| 12:10 pm –<br>12:25 pm               | Quality of neonatal resuscitation and impact of interdisciplinary and interprofessional in situ simulation training<br><i>Miledler / Graz</i>  |

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Time is given as Central European Time

# Preliminary Programme

## Delivery Room Management

Friday, 10<sup>th</sup> of March 2023

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12:30 pm – Developing a Delivery Room Video Collaborative  
12:50 pm *Herrick / Philadelphia*

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**1:15 pm – Break and lunch**

**2:15 pm** Use the time to get lunch and to discuss presentations with other participants and different companies.

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**2:15 pm – What do expect from the next few years?**

**4:00 pm** Speakers will give a look into future developments of delivery room management.

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2:15 pm – Volume and Inotropes during resuscitation  
2:30 pm *Dempsey / Cork*

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2:35 pm – Oxygen use in the delivery room and Goldilocks rule:  
2:50 pm Not too much, Not too Little, Just right!  
*Kapadia / Dallas*

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2:55 pm – Introducing DRIVE: a multicentre DR-network to  
3:10 pm facilitate resuscitation research  
*Foglia / Philadelphia*

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3:15 pm – Artificial intelligence in neonatology  
3:30 pm *Sharkey / Nottingham*

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3:35 pm – Does early bonding in the DR have an impact on  
3:45 pm epigenetics?  
*Charlotte Schömigh*

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3:50 pm – N.N.  
4:00 pm

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**4:00 pm – Break and exchange with companies**

**4:20 pm** Use the final break to discuss presentations with other participants and different companies.

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**4:20 pm – Multiperspective Discussion: How to train neonatal resuscitation**

**5:30 pm** To support neonatal transition adequately, an appropriate training is needed. Expert discuss different aspects of an optimal training.

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4:20 pm – How to train resuscitation – What is the evidence?  
4:40 pm *Miledler / Graz*

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4:50 pm – AAP vs. NLS  
5:10 pm *Madar / Plymouth*

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5:20 pm – Resuscitation vs. Support of transition  
5:30 pm *te Pas / Leiden*

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# ESPR courses on pertinent to optimal perinatal management and quality improvement

**Saturday, 11<sup>th</sup> of March 2023**

**Dear friends and colleagues,**

It is a great pleasure to invite you to another edition of the Course-Saturday of ESPR-Spring School.

Despite the challenges of the current times, we are proud to offer you a great selection of courses pertinent to optimal perinatal management and quality improvement.

You will find the detailed programme below. As always, we are interested to provide the opportunity for intensive discussions. Therefore, we restrict the number of participants to 12 per course. The participation is free of charge for ESPR-members but there will be a participation fee of 20 Euro for non-ESPR members. All participants please need to register with Sabine.Resch@ukdd.de.

We are looking forward to seeing you in March 2023 in Dresden



**Mario Rüdiger**



**Arjan te Pas**



**Charles Christoph Röhr**

## Preliminary Programme

### **9:00 am – 10:30 am: First session**

- How to manage an extremely preterm infant in DR.
- Skills for Delivery room management.
- How to audit your management in the Delivery Room?
- Monitoring vital parameters in the Delivery Room.
- Intact cord stabilization with the Concord Birth Trolley (sponsored by Concord Neonatal)

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### **10:45 am – 11:00 am: Coffee Break**

You will have the chance to chat with other participants in the break.

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### **11:00 am – 12:30 pm: Second session**

- How to manage an extremely preterm infant in DR.
- Skills for Delivery room management.
- How to audit your management in the Delivery Room?
- Monitoring vital parameters in the Delivery Room.
- Intact cord stabilization with the Concord Birth Trolley

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### **9:00 am – 11:30 am: „How to develop a medicinal cell product and bring it into clinical care?“**

From cell to success – Commercialization paths for scientists.

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### **9:00 am – 11:30 am: Meeting of Scientific Working groups**

Collaborators of research projects get the chance to meet and to discuss how to proceed with the project.

- Meeting of the EU-collaboration.
- Meeting of the SCIN-collaborators.

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*Time is given as Central European Time*

# ESPR courses on pertinent to optimal perinatal management and quality improvement

**Saturday, 11<sup>th</sup> of March 2023**

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## **How to manage an extremely preterm infant in the Delivery room?**

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. Techniques, policies, data and experiences will be discussed and patient cases simulated in this workshop.

*Lars Mense / Dresden*

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## **Skills for Delivery room management.**

Delivery room management is crucial to provide an optimal start into neonatal life. Improving team performance will help to prevent mortality and morbidity in a high-risk population. You will see and discuss how to improve skills in the Delivery Room.

*GNPI – Neonatal Resuscitation group*

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## **How to audit your management in the Delivery Room?**

Supporting postnatal transition or resuscitation of newborns requires an inter-professional team. Quality of your management in the Delivery Room is determined by a successful interaction of varying team members. A structured audit of your DR-management can help you to improve DR-management in your unit. You will learn how to introduce and sustain a successful auditing-process.

*Ruben Witlox / Leiden*

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## **Monitoring vital parameters in the Delivery Room.**

Various devices are available to monitor vital parameters of the Newborn. You will discuss recent advances in monitoring heart rate and oxygen saturation.

*Arjan te Pas / Leiden*

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## **Intact cord stabilization with the Concord Birth Trolley.**

The timing of umbilical cord clamping has become a hot topic for obstetrics and neonatal caregivers in recent years. Midwives have been practicing delayed cord clamping (DCC) in healthy term infants for decades. In recent years it is becoming more and more apparent that there is a much larger potential benefit if cord clamping is delayed until after the lung has aerated. But how to incorporate delaying cord clamping with stabilization of infants at birth? In this practical and interactive (virtual) workshop we will discuss important aspects of stabilizing the neonate immediately after birth, while keeping the umbilical cord intact. During the workshop we can look at, and discuss, different workflow aspects in a remote simulated setting, with the Concord Birth Trolley and learn from the experience of early adopter users, like the Dresden University Hospital.

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## **How to develop a medicinal cell product and bring it into clinical care?**

Scientific work aims to improve care of preterm or sick neonates. However, there is long journey between bench and bedside. Unfortunately, translation of scientific results into daily care is often hampered by a lack of knowledge regarding the chances of commercialisation. You will discuss – based on experience in introducing cell therapy into clinical care – what should be considered during the path of commercialisation.

*MDTB Cells*

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