

### Who is organising the Symposium?

Mario Rüdiger  
Barbara Seipolt; Katrin Weber; Lars Mense; Marius Möbius

- **Scientific advisory board – Regenerative Therapies**  
Ewa Henckel (Stockholm); Bernard Thebaud (Ottawa)
- **Scientific advisory board – DR-management**  
Kaysa Bohlin (Stockholm); Elizabeth Foglia (Philadelphia);  
Arjan te Pas (Leiden); Charles Christoph Roehr (Oxford)
- **ESCNR – Young Investigator Price**  
Jeroen van Vonderen; Dimitrios Konstantelos

## 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.neonatal-research-dresden.de. 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.

### How to register?

**The number of participants is restricted to 200.  
Thus, a registration is required.**

**Please register by E-Mail at:** Sabine.Resch@ukdd.de  
**Tel.:** +49 351 458-3640

### What to pay for participation?

For food and beverages during breaks **80 €<sup>3</sup>** (one day) / **110 €<sup>3</sup>**  
(5<sup>th</sup> / 6<sup>th</sup> of March); free for students / nurses.

### 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.



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

on Delivery Room Management  
and Regenerative Therapies together with  
ESPR-Spring School

## 5<sup>th</sup> – 7<sup>th</sup> of March 2020



European Society  
for Paediatric Research

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

with **ALBINO-study group**, **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 colleagues and friends,

It has now become a tradition to start the spring season in Dresden and to discuss **recent advances and future development** in the field of postnatal adaptation, perinatal brain damage and regenerative therapies.

To celebrate the **11<sup>th</sup> “Dresden Symposium”** we are happy to organise the meeting together with the **Spring School of the European Society for Paediatric Research (ESPR)**. Together with the ESPR we provide an unique **platform for scientific exchange** for you as a clinician or researcher in that field.

On Thursday and Friday, you will have many opportunities for **detailed discussions** with participants and our distinguished speakers who present current scientific data and share their practical experiences. On Saturday, you can join our **Hands-on Courses** which cover different aspects of Delivery Room Management.

To make the symposium as inter-active as possible, the **number of participants is restricted**. However, if you cannot come to Dresden you will have the unique opportunity of listening to the speakers and participating in the discussion via **internet livestream**.

The programme of the meeting is organised to make it a great event for you. Thus, you are cordially invited to become an active part of the meeting and to **“Present your video”**, to **“Meet the Expert”** and to discuss **“Stem cell sciences”** or **“Your clinical case or SOP”**. Furthermore, we will award the **Young Investigator Prize**.

On behalf of the scientific advisory board, we are looking forward to welcoming you in Dresden!



**Mario Rüdiger**  
Local Organiser



## Brain Damage / Regenerative Therapy Thursday, 5<sup>th</sup> of March 2020



Whereas Hypothermia has become standard therapy to prevent **brain damage**, other interventions are currently developed. An up-date of available interventions will be given and new approaches are discussed.

The **Key note lecture** will be given by Petter Brodin, discussing the development of the immune system of the newborn.

With regard to **regenerative therapies**, speakers will focus on different aspects of preventing or treating BPD. Furthermore, new indications on the Horizon are presented.

### Discuss your clinical case or SOP with colleagues<sup>1</sup>

You are invited to present an interesting case, a new approach of treating patients, a diagnostic algorithm or video of intervention and to discuss it with your colleagues and international experts.

### Discuss Stem Cell Science (Saturday 7<sup>th</sup> of March 2020)

Whereas the meeting is mainly “clinical based” you will also have the opportunity to discuss your bench-side experiments with international experts. Thus, present an experimental protocol, confusing data, research ideas.

### Meet the Expert

Interns, Fellows and young Consultants are invited to meet internationally renowned scientists and discuss clinical problems. At “Meet the expert” you are invited to cross-check what you’ve been taught and come up with new ideas for the next ward round!

## Delivery Room Management Friday, 6<sup>th</sup> of March 2020

*“Resuscitation of infants at birth has been the subject of many articles. Seldom have there been such imaginative ideas, such enthusiasms, and dislikes, and such unscientific observations and study about one clinical picture.”* Virginia Apgar

There are still “imaginative ideas and enthusiasm” but also great science within the field of DR-management. Well-known speakers will share their excitement with you and provide inside into recent advances in the following (and other) topics:

- **Current & future studies on DR-management**  
New devices in the delivery room?
- **How to support respiration in the delivery room?**  
Need for stimulation, recent animal data
- **A look in the future**  
Does the Apgar-Score need to be resuscitated?
- **New resuscitation guidelines**  
What is the science behind the recommendation?

The **Key note lecture** will be given by Eric Jensen, discussing recent research data that will help to improve the diagnosis of BPD.

### Young Investigator Award<sup>2</sup>

If you are a young and fascinated by your research you can apply for the **“Young Investigator Prize”**. Details of application will be announced at [www.neonatal-research-dresden.de](http://www.neonatal-research-dresden.de). The audience will select the best presentation and the best scientific content by vote.

### Presentation of DR Video<sup>2</sup>

Present a short video-clip of DR-management done in your institution and discuss your approach with colleagues.

## Hands-on Courses Saturday, 7<sup>th</sup> of March 2020

Different Hand-on courses are planned; covering topics such as: simulation training of resuscitation, surfactant administration, working with new devices. More information will be available end of the year.

If you are interested, please register at: [sabine.resch@ukdd.de](mailto:sabine.resch@ukdd.de)

# Update on neonatal Brain Damage and Regenerative Therapies

Thursday, 5<sup>th</sup> of March 2020

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**09:00 – 11:00 Neonatal Brain injury**

*Winkler / Dresden*

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09:00 – 09:10 Welcome

*Rüdiger*

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09:15 – 09:30 ALBINO-trial update

*Franz / Tübingen*

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09:35 – 09:55 Clinical update on hypothermia

*Höhn / Düsseldorf*

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10:05 – 10:25 Brain growth and brain volume

*Vermeulen / Rotterdam*

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**11:00 – 11:30 Coffee break**

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**11:30 – 13:00 Regeneration & Immunology**

*Armann / Dresden*

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11:30 – 11:45 Recent data on MSC for HIE

*Cotten / Durham*

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11:50 – 12:15 MSC in Pediatric GvHD?

*Hauer / Dresden*

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12:25 – 12:50 Learning from adult-medicine: the anti-inflammatory effect of MSC in PAD

*Werth / Dresden*

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**13:00 – 14:00 Lunch**

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**14:00 – 14:45 Key-note lecture**

*Rüdiger*

How to define BPD in the future

*Jensen / Philadelphia*

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**15:00 – 15:20 Coffee break**

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**15:20 – 16:40 Understanding feto-neonatal development**

*Möbius / Dresden*

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15:20 – 15:45 Understanding alveolarisation to induce lung regeneration

*Morty / Gießen*

# Update on neonatal Brain Damage and Regenerative Therapies

Thursday, 5<sup>th</sup> of March 2020

15:50 – 16:15      Maturation of immune-system in the extra-uterine fetus  
*Henckel / Stockholm*

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16:20 – 16:35      Fetal growth restriction and the transitional period  
*Reiss / Rotterdam*

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**16:40 – 17:00      Coffee break**

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**17:00 – 19:00      Registration is required, for one of the following sessions:**

## **Live transmission via the Internet**

Neonatologists and researchers around the world are invited to participate online. You can view the livestream of the presentation and can ask questions. Ask for your password via email.

## **Discuss your clinical case or SOP** (*Küster*)

Participants present their clinical case or SOP and discuss it with participants. You are invited to present your SOP.

- Treatment with High Flow (*Dassios / London; Mense / Dresden*)
- How to counsel pregnant woman at risk of preterm delivery (*Mense / Canada; Wiechers / Tübingen*)
- Management during Hypothermia (*N.N.*)

## **Discuss Stem Cell Science** (*Möbius*)

Whereas the meeting is mainly “clinical based” you will also have the opportunity to discuss your bench-side experiments with international experts. Thus, present an experimental protocol, confusing data, research ideas ... and discuss it with experts and colleagues.

## **Meet the Expert** (*Mense; Winkler; Weber, Armann*)

Interns, Fellows and young Consultants are invited to meet internationally renowned scientists and discuss clinical problems. At “Meet the expert” you are invited to cross-check what you’ve been taught and come up with new ideas for the next ward round!

# Delivery Room Management

## Friday, 6<sup>th</sup> of March 2020

**09:00 – 10:00**     **New and promising data**

*tePas / Leiden*

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09:00 – 09:10     Welcome

*Rüdiger*

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09:10 – 09:25     The CORSAD-study: Comparison of respiratory support after delivery on preterm Infants

*Donaldsson / Stockholm*

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09:30 – 09:45     DR-studies in Tanzania

*Ersdal / Stavanger*

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09:55 - 10:05     Variations in tactile stimulation following apnea

*Cramer / Leiden*

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**10:10 – 11:00**     **Young Investigator Prize**

*Laila Springer / Tübingen*

Young investigators present their results within 7 minutes, results are open for discussion for 3 minutes. The audience select the best presentation and the best scientific content by vote.

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**11:00 – 11:30**     **Coffee break**

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**11:30 – 13:00**     **Respiratory support in the Delivery Room**

*Rozycki / Richmond*

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11:30 – 11:50     Results of the Monitor study

*van Zanten / Leiden*

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12:00 – 12:15     The effect of high versus low FiO<sub>2</sub> on breathing effort in preterms at birth

*Martherus / Leiden*

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12:20 – 12:35     Neonatal Intubation in 2020:  
View from an International Registry

*Foglia / Philadelphia*

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12:40 – 12:55     Augmented Reality to Assist Intubation

*Dias / Durham*

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**13:00 – 13:50**     **Lunch**

# Delivery Room Management

## Friday, 6<sup>th</sup> of March 2020

**13:50 – 14:20**

### **Key-note lecture**

Immune development of newborns  
*Brodin / Stockholm*

**14:30 – 15:10**

### **A look into the future**

*Roberts / Melbourne*

14:30 – 14:45

Telemedicine to support resuscitation in smaller hospitals  
*Fang / MAYO Clinic*

14:50 – 15:05

Alternatives to the Apgar  
*Rozycki / Richmond*

**15:10 – 15:30**

### **Coffee break**

**15:30 – 16:45**

### **New Resuscitation guidelines – what is the science behind it?**

*Foglia / Philadelphia*

15:30 – 15:45

How are guidelines generated  
*Wyllie / Middlesborough*

15:50 – 16:05

Meconium stained fluid – to suction or not to suction that is the question  
*Szyld / Oklahoma*

16:10 – 16:25

Epinephrin – Yes or No and which route  
*Roberts / Melbourne*

16:30 – 16:45

Intraosseous cannulation in newborns  
Contra: *Eifinger / Cologne*  
Pro: *Scrivens / Oxford*

**16:50 – 17:00**

### **ESCNR-Young Investigator Award**

**17:00 – 18:00**

### **Presentation of DR Video**

*Küster / Göttingen*

Short video-clips of DR-management are presented and discussed with the participants

# Hands on Workshops

## Saturday, 7<sup>th</sup> of March 2020

**A maximum of 10 participants is available for each workshop, if one session is already overbooked, we offer you participation in the other session.**

**Participation fee for each workshop is 20 Euro, for ESPR member 10 Euro.**

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### **09:00 – 10:30: First session**

- Intubation using video-laryngoscopy.
- How to manage an extremely preterm infant in DR.
- Using Simulation to Improve Team Performance in DR.
- How to audit your management in the Delivery Room?
- Monitoring vital parameters in the Delivery Room

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### **10:30 – 11:00: Coffee Break**

You will have the chance to visit the local NICU

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### **11:00 – 12:30: Second session**

- Intubation using video-laryngoscopy.
- How to manage an extremely preterm infant in DR.
- Using Simulation to Improve Team Performance in DR.
- How to audit your management in the Delivery Room?
- Monitoring vital parameters in the Delivery Room.

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### **09:00 – 13:00: From cell to success – Commercialisation paths for scientists. (MDTB Cells)**

- Participation fee: 40 Euro

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### **Two sessions: 9:00 – 10:30 a.m. and 11:00 – 12:30**

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#### **Intubation using video-laryngoscopy – hands-on course.**

*Michael Wagner / Vienna*

You can train how to use video laryngoscopy to intubate newborns. After short theoretical background, you are invited to train your skills in a mannequin.

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

*Lars Mense / Dresden*

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.

# Hands on Workshops

## Saturday, 7<sup>th</sup> of March 2020

**Two sessions: 9:00 – 10:30 a.m. and 11:00 – 12:30**

### **Using Simulation to Improve Team Performance in the Delivery Room.**

*Elizabeth Foglia / Philadelphia*

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 simulation helps to improve team performance in the Delivery Room.

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

*Ruben Witlox / Leiden*

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.

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

*Surepulse Medical*

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

**One session 9:00 – 13:00**

### **From cell to success – Commercialisation paths for scientists.**

*MDTB Cells*

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.