Congenital Shunt Lesions – Anything New to Consider?

14th DHZB Lange Symposium
September 22/23, 2018, Berlin
Dear colleagues,

We would again like to invite you to our annual symposium in Berlin in 2018.

The **14th DHZB Lange Symposium for Congenital Heart Disease** will take place on September 22-23, 2018, at the dbb Forum Berlin, Friedrichstr. 169/170, 10117 Berlin.

This year’s topic, “Congenital shunt lesions”, sounds at first glance like a conservative medical topic. However, at a closer look there are still many unmet clinical needs, undiscovered pathophysiological mechanisms, as well as new exciting methodologies and technologies to illuminate the topic from different perspectives. Moreover, we are very pleased to have attracted many international specialists for the exciting related topics. What else is new? Digital medicine – the ability to submit questions online during the lectures – will be available to hopefully lead to even more robust communication and exchanges between the lecturers and the audience. Finally, a new scientific quiz with a battle will also take place to encourage you, the experts, to reflect and share your thoughts with all of us.

The main topics will be:

- **Keynote Lecture: Congenital Shunt Lesions: The Birth of Heart Surgery**
- **Basic and Future Considerations**
- **VSD - Boring or Burning**
- **The Saturday High Noon Lecture:**
  - Big Data in Medicine / Wearables and their Benefit in Medicine
- **Low and High Pressure Shunts**
- **The Sunday Morning Special Session**
- **Vessels out of Control**
- **Keynote Lecture: „Artificial Intelligence in Medicine“**
- **Congenital Shunts**

To complement the scientific program there will be a **Get Together** at the venue on the evening of 22 September 2018 to allow further contacting and continued discussion.

We are very much looking forward to an interesting symposium and hope that we will be able to welcome you in large numbers in September 2018.

Prof. Dr. med. F. Berger
Director, Dept. of Congenital Heart Defects/Pediatric Cardiology
Keynote

PD Dr. med. **Tonio Ball** is head of the Translational Neurotechnology Lab at the University of Freiburg, Germany, where he also earned his MD. He works with intracranial and non-invasive EEG, including optimization of EEG acquisition, implant development, and application in BCIs, e.g., for the closed-loop online control of robotic systems. Recently, he focusses on application of deep learning techniques for improving online and offline decoding of information from EEG signals. He worked as a PostDoc for the Heidelberg Academy of Sciences and Humanities's, and is a founding member of the Bernstein Center Freiburg and of the Cluster of Excellence BrainLinks-BrainTools in Freiburg.

Professor Dr. med. **Markus Heinemann** is a pediatric cardiac surgeon who trained mainly at Hannover Medical School and, later, at Tübingen University. An extended research fellowship also brought him to the Boston Children's Hospital. Since 2010 he is the Editor-in-Chief of The Thoracic and Cardiovascular Surgeon, the scientific journal of the German Society for Thoracic and Cardiovascular Surgery. He has published extensively on aortic surgery, congenital heart disease, and, more recently, medical publishing itself.

Professor Dr. med. **Bea Latal** is head of the Department of Developmental Pediatrics at the Universitäts-Kinderspital (University Children’s Hospital) Zürich – Eleonore Foundation. In 2007 she received her Habilitation (postdoctoral university lecturing qualification) in developmental pediatrics with a thesis on the developmental prognosis of prematurely born children. Since 2005 she has been the chief consultant in the Department of Developmental Pediatrics, specializing in children at high risk, in particular children with a congenital heart defect. Bea Latal has received the Newburger-Bellinger Award and the Georg Friedrich Götz Prize. She has published a large number of research and review articles and has succeeded in acquiring competitive third-party funding for diverse projects.
Saturday, September 22, 2018

08:30 Opening
09:00 Welcome and „warm up“

I. Basic and Future Considerations
Chairmen: Kühne / Abdul-Khaliq

Keynote Lecture
09:15 Congenital shunt lesions: The birth of heart surgery
Heinemann

09:45 The burden of volume load and cyanosis
Ovroutski
10:05 Quantification of volume load and oxygenation
Nordmeyer
10:25 Contractile patches – wishes and visions
Weinberger

10:45 Break

II. VSD – Boring or Burning
Chairmen: Siepe / Stumper

11:15 Indication and optimal timing of treatment
Abdul-Khaliq
11:30 Fenestrated VSD closure – really needed
Murin
11:45 Complex VSD morphology
Siepe
(non or doubly committed / septation / Swiss)

12:00 Much ado about nothing:
VSD – to close or not to close?
Schubert

12:15 Intervention / hybrid therapy
Dähnert

12:30 Thoracoscopic treatment: next generation surgery
Omelchenko

12:45 Ask the experts

13:00 Lunch
III. The Saturday Afternoon Highlight Lecture  
Chairmen: Ovroutski / Schmitt  
14:30 Train the brain in congenital heart disease: Latal  
Neuroprotection and interventions during childhood

IV. Battle of the Experts  
Chairmen: Ovroutski / Schmitt  
15:00 Interactive Scientific Team Competition International Teams
16:00 Break

V. Low and High Pressure Shunts  
Chairmen: Sandica / Schubert

ASD – mission completed?  
16:30 a) Right side view Grohmann  
16:50 b) Left side view Tutarel
17:10 PDA: from adult to preterm Zunzunegui  
17:30 Malign lesions:  
aortopulmonary window und LV tunnel Anderson
17:50 Ask the experts
18:05 Get together
VI. The Sunday Morning Special Session
Chairmen: Dähnert / Miera

09:30 Arteriogenesis: physiological and pathological growth Troidl
09:50 Rheology / viscosity Simmonds
10:10 Hemoglobine management: Blood, the very special juice Schmitt
10:30 Late presenters (PAH, fibrosis, arrhythmia, endocarditis) Diller
10:50 Coffee Break

VII. Vessels out of Control
Chairmen: Schmitt / Ewert

11:30 Aorto-pulmonary and veno-venous collaterals Stumper
11:50 Sequestration / pulmonary AV malformation Dittrich
12:10 Cerebral vascular malformation Henkes
12:30 Coronary fistula Sivakumar
12:50 Infradiaphragmatic malformations Opgen-Rhein
13:15 Lunch Break
Keynote Lecture
14:10  "Artificial Intelligence in Medicine"  

VIII. Congeni(t)al Shunts
Chairmen: Photiadis / Dittrich

14:40  Size, length, location  Sandica
15:00  PDA: nature is best  Schranz
15:20  Interventional AP shunts  Ewert

15:40  Lottery Drawing

15:50  Closing remarks  Berger

15:55  End
Faculty

Prof. Dr. med. Hashim Abdul-Khaliq, Homburg, Germany

Prof. David R. Anderson, M.D., London, Great Britain

PD Dr. med. Tonio Ball, Freiburg, Germany

Prof. Dr. med. Felix Berger, Berlin, Germany

Prof. Dr. med. Ingo Dähnert, Leipzig, Germany

Prof. Dr. med. Gerhard-Paul Diller, Münster, Germany

Prof. Dr. med. Sven Dittrich, Erlangen, Germany

Prof. Dr. med. Peter Ewert, München, Germany

PD Dr. med. Jochen Grohmann, Freiburg, Germany

Prof. Dr. med. Markus Heinemann, Mainz, Germany

Prof. Dr. med. Hans Henkes, Stuttgart, Germany

Prof. Dr. med. Titus Kühne, Berlin, Germany

Prof. Dr. med. Bea Latal, Zürich, Switzerland

Dr. med. Oliver Miera, Berlin, Germany

MU Dr. med. Peter Murin, Berlin, Germany

Dr. med. Sarah Nordmeyer, Berlin, Germany

Prof. Alexander Y. Omelchenko, M.D., PhD., Novosibirsk, Russia

Dr. med. Bern Opgen-Rhein, Berlin, Germany

PD Dr. med. Stanislav Ovrutskiy, Berlin, Germany

Prof. Dr. med. Joachim Photiadis, Berlin, Germany

Dr. med. Eugen Sandica, Bad Oeynhausen, Germany

PD Dr. med. Katharina Schmitt, Berlin, Germany

Prof. Dr. med. Dietmar Schranz, Gießen, Germany

PD Dr. med. Stephan Schubert, Berlin, Germany

Prof. Dr. med. Matthias Siepe, Freiburg, Germany

Prof. Michael J. Simmonds, PhD, AEP, Brisbane, Australia

K. Sivakumar MD, Chennai, India

Prof. Oliver Stumper, M.D., Birmingham, Great Britain

Dr. med. Kerstin Troidl, Berlin, Germany

PD Dr. med. Oktay Tutare, München, Germany

Dr. med. Florian Weinberger, Hamburg, Germany

Prof. Jose Luis Zunzunegui, M.D., Madrid, Spain
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PD Dr. S. Schubert | PD Dr. K. Schmitt

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Registration fee Saturday and Sunday (Euro)

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CME-Certified 14 points, EBAC 11 points
Hope to see you all again at the 15th DHZB Lange Symposium
Berlin September 21./22., 2019