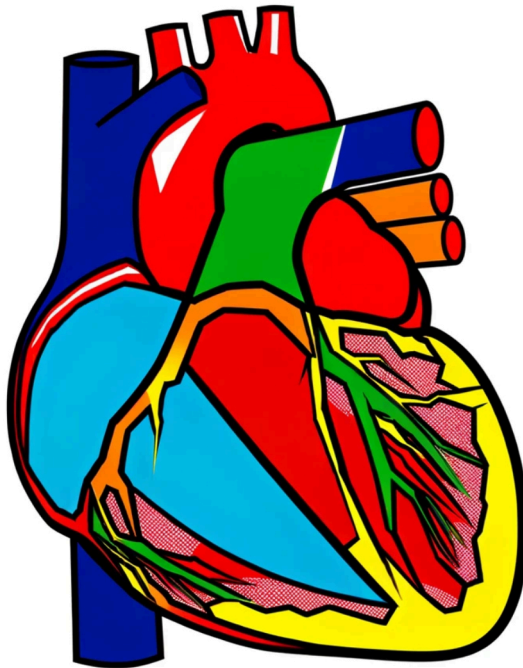


The Right Ventricle

- The Dark Side of the Moon -



19th DHZB Lange Symposium
September 21, 2024, Berlin



Dear colleagues,

This year's symposium is dedicated to the unresolved secrets of the

“The Right Ventricle”

Until the mid-20th century, the right ventricle (RV) was often dismissed as an "unnecessary or insignificant" component of the heart, earning it the moniker "the forgotten ventricle." However, its significance in both acquired and congenital heart diseases is now universally acknowledged.

Research demonstrates that the function or dysfunction of the right ventricle plays a pivotal role in determining the prognosis and outcome of various acquired and congenital heart conditions. Consequently, there has been a growing interest in elucidating the distinct role of the RV and its impact on overall cardiac function and interactions between the two ventricles.

RV failure, a multifaceted clinical syndrome, can stem from structural or functional cardiovascular disorders that impairs the RV's ability to fill or contract. Moreover, the adaptation of the RV to diverse stresses is intricate and contingent upon numerous factors, including the type and severity of myocardial damage or stress, the disease progression (acute versus chronic), and the age of onset. Additionally, critical elements such as neurohormonal activation, altered gene expression, and ventricular remodeling patterns further influence RV adaptation.

Notably, right ventricular function serves as a robust predictor of mortality, not only in heart failure but also in pulmonary hypertension, congenital heart disease, and cardiothoracic surgery. Nevertheless, understanding the morphology, contraction patterns, and adaptive responses of the right ventricle leading to right ventricular failure remains an unresolved challenge. Through this symposium, we aim to contribute to a deeper comprehension of the right ventricle and its central significance.

Together with our renowned national and international speakers and faculty we are very much looking forward to a stimulating symposium and hope that we will be able to welcome you in large numbers in September 2024.

On behalf of the entire scientific and organizing committee.



Prof. F. Berger MD
Director, Dept. of Congenital
Heart Disease - Pediatric Cardiology

Education credits: CME xxx points.

Saturday, September 21, 2024

08:30 Opening

09:00 Welcoming and "Warm up" Berger

I. Keynote Lecture

09:15 The Right Ventricle - a challenging complexity Friedberg

II. Basic Knowledge

Moderators: Berger / Friedberg

09:45 RV - extraordinary anatomy and morphology Bartelds

10:05 Insights from animal models Schiattarella

10:25 Hepatic involvement in RV failure Engelmann

10:45 The heart - kidney dependency Wilck

11:05 **Break**

III. Keynote Lecture

11:35 Risk profiling of heart failure based on population studies Kelm

IV. Function and Failure of RV

Moderators: Abdul-Khaliq / Kühne

- | | | |
|-------|---|-----------|
| 12:05 | Quantitative imaging of RV function | Doebelin |
| 12:25 | Vascular and structural RV adaptation in PAH | Opitz |
| 12:45 | RV failure pattern and mechanisms in different congenital heart disease | Friedberg |
| 13:05 | Systemic RV – why do some fail and some not | Uebing |
| 13:25 | Lunch Break | |

V. Keynote Lecture

- | | | |
|-------|---|---------|
| 14:45 | RV function during and after cardiac bypass | O'Brien |
|-------|---|---------|

VI. RV - Damage and Recovery

Moderators: Ovroutski / Sallmon

- | | | |
|-------|---|--------------|
| 15:15 | Resynchronisation - the secret of RV revitalisation | Abdul-Khaliq |
| 15:35 | Unloading the RV – role of surgery | Asfour |
| 15:55 | RV damage in ischemia | Landmesser |
| 16:15 | Final refreshment | |

VII. RV - Paths of Hope

Moderators: Schmitt / Uebing

- | | | |
|-------|--|-----------------|
| 16:35 | Remote monitoring | Köhler |
| 16:55 | Transient and long-term mechanical support | Potapov |
| 17:15 | First-in-human umbilical cord mesenchymal stem cell-derived treatment of pressure-overload right heart failure | Hansmann |
| 17:35 | Supporting the RV and/or LV – importance of medication | Sallmon |
| 17:50 | Closing remarks | Berger and Team |
| 18:00 | Adjourn | |

Faculty

Prof. Hashim Abdul-Khaliq MD
Homburg, Germany

Prof. Boulos Asfour MD
Bonn, Germany

Prof. Beatrijs Bartelds MD
Rotterdam, Netherlands

Patrick Doeblin MD
Berlin, Germany

Prof. Cornelius Engelmann MD
Berlin, Germany

Prof. Mark Friedberg MD
Toronto, Canada

Prof. Georg Hansmann MD
Erlangen, Germany

Marcus Kelm MD
Berlin, Germany

Prof. Friedrich Köhler MD
Berlin, Germany

Prof. Titus Kühne MD
Berlin, Germany

Prof. Ulf Landmesser
Berlin, Germany

Prof. Benjamin O'Brien MD
Berlin, Germany

Prof. Christian Opitz MD
Berlin, Germany

Prof. Stanislav Ovroutski MD
Berlin, Germany

Prof. Evgenij Potapov MD
Berlin, Germany

Prof. Hannes Sallmon MD
Graz, Austria

Gabriele Schiattarella MD
Berlin, Germany

Prof. Katharina Schmitt MD
Berlin, Germany

Prof. Anselm Uebing MD
Kiel, Germany

Nicola Wilck MD
Berlin, Germany