

## Faculty

### **Prof. Dr. Sonya Babu-Narayan**

Department of Adult Congenital Heart Disease, Royal Brompton and Harefield Hospitals, Guy's and St. Thomas' NHS Foundation Trust London, United Kingdom

### **Prof. Dr. Philipp Beerbaum**

Department of Paediatric Cardiology and Paediatric Intensive Care Medicine at the Hannover Medical School, Germany

### **Prof. Dr. Marcus Both**

Department of Radiology, Universitätsklinikum Schleswig-Holstein, Campus Kiel, Germany

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Department of Congenital Heart Disease and Paediatric Cardiology, Universitätsklinikum Schleswig-Holstein, Campus Kiel, Germany

### **Dr. Heynric Grotenhuis**

Department of Paediatric Cardiology, University Medical Center Utrecht, Heidelberglaan, Utrecht, The Netherlands

### **Dr. Christopher Hart**

Kinderkardiologie, Universitätsklinikum Bonn

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Herz- und Diabetes Zentrum Nordrhein-Westfalen, Bad Oeynhausen

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Institute of Biomedical Imaging, Technical University Graz, Austria

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## Contact

Universitätsklinikum Schleswig-Holstein

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#### **Registration:**

please send your application with your full name and contact details to: [inga.voges@uksh.de](mailto:inga.voges@uksh.de)

#### **Registration fees:**

In-Person attendance

Non-trainee: 280 €

Trainee/student/AEPC junior member: 200 €

Hybrid course:

Non-trainee: 120 €

Trainee/student/AEPC junior member: 80 €



Deutsche Gesellschaft für  
Pädiatrische Kardiologie und  
Angeborene Herzfehler e.V.



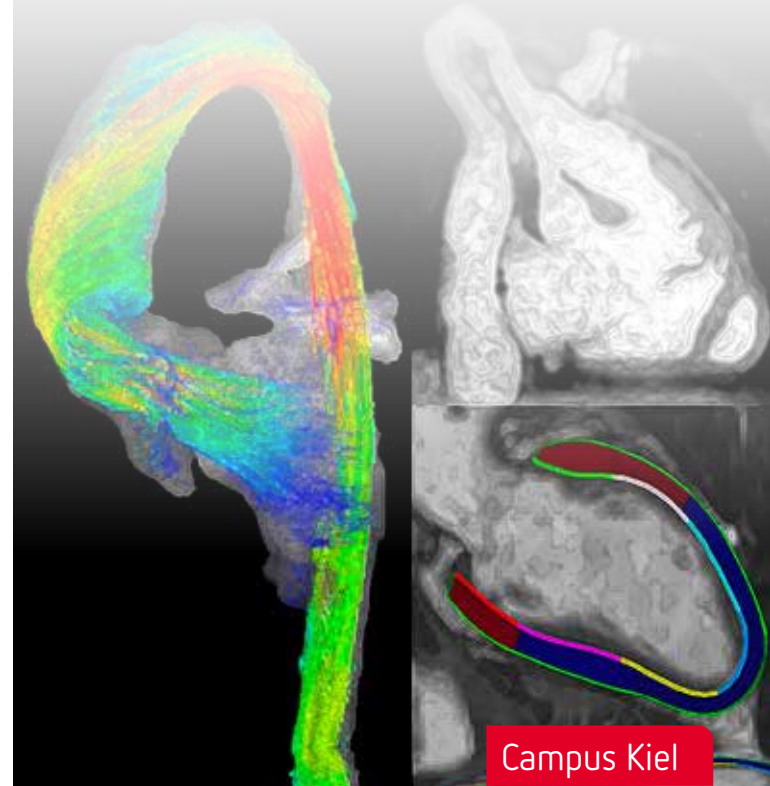
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Wissen schafft Gesundheit

# UK SH

UNIVERSITÄTSKLINIKUM  
Schleswig-Holstein



Campus Kiel

Klinik für für angeborene  
Herzfehler und Kinderkardiologie



Hybrid Event

Cardiovascular Magnetic Resonance in Congenital Heart Disease

## CMR Course

22./23. September 2022 in Kiel

## Welcome

Cardiovascular magnetic resonance (CMR) imaging has become a routine diagnostic imaging modality in paediatric and adult patients with congenital heart disease. It is non-invasive, does not use ionising radiation and shows very good reproducibility of measurements. Therefore, it is now an integral part of the clinical follow up of congenital heart disease patients. Besides anatomical imaging as well as assessment of blood flow, myocardial perfusion and myocardial tissue characteristics, CMR is increasingly used for prognostication assessment and can hereby help in clinical decision making.

Advanced imaging with CMR can only be successful in the context of a close interdisciplinary collaboration between radiologists, paediatric cardiologists, adult congenital heart disease specialists, cardiologists and MR physicists. Working closely together, CMR can be optimally used for the benefit of the patients.

This hybrid course is organised by the imaging working group of the German Society for Paediatric Cardiology and Congenital Heart Defects (DGPK) and the German Society of Radiology (DRG). It is dedicated to improve the knowledge of CMR imaging in paediatric and congenital heart disease with it's increasing complexity. The programme includes a mixture of theoretical and practical parts including scanning and CMR analysis sessions for those who will attend the course in person. For those participants who will join the virtual sessions, we will ensure that the course lectures will include practical pearls.

It is our intention to contribute to the interdisciplinary education in CMR in congenital heart disease and hope that this course will be of help to those who wish to practice in this specialised and emerging area.

We are looking forward to welcoming you in person or virtually on the 22nd and 23rd of September in Kiel, Sailing City.

PD Dr. Inga Voges, PD Dr. Michael Steinmetz,  
Prof. Dr. Christian Ritter

Organised by DGPK imaging working group and DRG  
Endorsed by AEPC

## Program

### 1<sup>st</sup> day

10.15	Welcome M. Both, O. Jansen, A. Uebing, I. Voges, M. Steinmetz, C. Ritter
10.30	Physics – basic principles M. Salehi Raveh, D. Gabbert, M. Uecker
11.30	Sequence Toolbox C. Ritter
12.00	Flow measurements – indications, pitfalls and limitations P. Beerbaum
12.30	Lunch
13.45	MR Angiography M. Both
14.15	Aortic coarctation M. Steinmetz
14.45	Transposition of the great arteries after arterial switch H. Grotenhuis
15.15	Shunt lesions S. Krupickova
15.45	Coffee break
16:00	CMR Quiz K. T. Laser
16.35	Hands-on training: Scanning (ToF, ISTA, TGA) Hands-on training: Image analysis P. Langguth, M. Salehi Raveh, I. Voges, M. Stein- metz, H. Latus, C. Ritter, P. Beerbaum, H. Groten- huis, S. Krupickova, S. Babu-Narayan, C.Rickers
~19.00	Dinner in a seaside restaurant

### 2<sup>nd</sup> day

8.00	Physics – basic principles D. Gabbert, M. Salehi Raveh, M. Uecker
9.00	Advanced imaging of aortic valve disease S. Nordmeyer
9.30	Myocardial Perfusion P. Langguth
10.00	CMR feature tracking J. Kowallick
10.30	Coffee break
10.45	Hands-on-Training (e. g. ToF, Ebstein, Fontan) Hands-on training: Image analysis P. Langguth, M. Salehi Raveh, I. Voges, M. Stein- metz, H. Latus, C. Ritter, P. Beerbaum, H. Groten- huis, S. Krupickova, S. Babu-Narayan, C.Rickers
12.00	Lunch
13.00	Hands-on-Training: Scanning (e.g. Fontan, Ebstein, TGA) Hands-on training: Image analysis P. Langguth, M. Salehi Raveh, I. Voges, M. Stein- metz, H. Latus, C. Ritter, P. Beerbaum, H. Groten- huis, S. Krupickova, S. Babu-Narayan, C.Rickers
15.00	Coffee break
15.15	Transposition of the great arteries after 'atrial' switch S. Babu-Narayan
15.45	Tetralogy of Fallot H. Latus
16.15	Complex cases: univentricular hearts, ccTGA I. Voges
16.45	Lymphatic pathway evaluation in univentricular hearts C. Hart
17.15	Farewell I. Voges