

# 3D Echocardiography in Heart Failure and Valvular Disease



## #3DEchoBerlin

● Date

January  
19-21  
2024

● Location

**Deutsches Herzzentrum  
der Charité**  
„Weißer Saal“  
Augustenburger Platz 1  
13353 Berlin

and  
ONLINE

Dear colleagues,

3D echocardiography has improved significantly over the past years, especially – but not exclusively – in transesophageal echocardiography. 3D echocardiography is essential in the workup for heart failure, valvular heart disease and therapy planning. Furthermore, it continues to improve the measurement of volumes by not relying on anatomical assumptions. The acquisition of meaningful 3D images requires knowledge of potential pitfalls and dedicated training.

The aim of this workshop is to discuss important topics within the vast field of heart failure and valvular heart disease with experts in the field. We will highlight the use of 3D echocardiography in special clinical settings from guiding medical therapy to mechanical support. Furthermore, we will focus on the use of 3D within the growing field of valvular heart disease. The speakers will not only concentrate on the assigned topics but will also offer a comprehensive step by step approach to the dedicated use of 3D echocardiography by showing their tips and tricks.

In hands-on sessions, we will give insights on acquisition rules and application. It is mandatory to share our secrets on how the magic happens in the post-processing process. Hence, you will get the opportunity to work on real dataset using the workstation (GE EchoPAC) on day 3. Although this workshop is GE-EchoPAC based, users of different vendors can also assist as many concepts are anyway applicable regardless of the machine you are using.

Every attendee will receive an advanced certificate of education with CME points (Ärztchamber & EBAC).

We are looking forward seeing you on site or online!

Volkmar Falk / Nicolas Merke

Cooperation Partners

# Program

Day 1	Friday, January 19, 2024	Planned speakers
09.45 – 10.00	Introduction to the course	N. Merke & V. Falk
Session Chairs	B. Heidecker, F. Knebel	
10.00 – 11.00	3D Echocardiography as the key modality for the diagnosis of heart failure*	A. Motoc
11.00 – 12.00	New frontiers in medical therapy with focus on echo guided titration and monitoring of HF medication using 2D / 3D*	F. Verbrugge
	<i>Coffee Break</i>	
12.30 – 13.30	Echo-guided cardiac resynchronization therapy*	O. Breithardt & E. Stellbrink
	<i>Lunch Break</i>	
14.30 – 15.00	How to Use Myocardial Strain to detect subclinical LV dysfunction and Progression to Clinical HF	M. Vannan
Session Chairs	E. Potapov, F. Schönrath, A. Flammer	
15.00 – 16.00	Echo-guided decision making in device-based acute heart failure therapy*	S. Ott & N. Merke
16.00 – 17.00	Mechanical Circulatory Support or transplantation? 3D echocardiography as a tool to solve every aspect after advanced heart failure therapy*	J. Knierim & F. Schönrath & M. Kukucka
17.00 – 18.00	3D Echocardiography in heart failure: step by step approach*	E. Kaya & N. Merke
Day 2	Saturday, January 20, 2024	
Session Chairs	V. Falk, A. Motoc, A. Borges, M. Vannan	
09.00 – 10.00	Evidence and outcome-based quantification of mitral and tricuspid regurgitation by echocardiography*	F. Graziani
10.00 – 11.00	2D and 3D assessment of the tricuspid valve*	T. Kemalğlu Öz
	<i>Coffee Break</i>	
11.30 – 12.30	Lead extraction & Thrombectomy-added value of 3D*	C. Starck & A. Mladenow
12.30 – 13.45	Echo-guided decision making in the heart team: surgery or intervention, which device in AV Regurgitation?*	H. Dreger & A. Unbehaun & E. Romero
	<i>Lunch Break</i>	
Session Chairs	E. Romero, A. Hagendorff, M. Vannan	
14.45 – 16.00	How to create comprehensive images for the heart team	E. Donal & N. Merke
	<i>Coffee Break</i>	
16.30 – 17.45	Tips and Tricks on screening and Guiding of TEER*	N. Merke & K. Papadopoulos
17.45 – 18.00	Closing remarks	
Day 3	Sunday, January 21, 2024 (Hands-on session)	
09.00 – 11.00	 Introduction to the physical principles of 3D to understand the potential for optimization of image quality (3D and 3D color)	A. Hagendorff & V. Kavalercyk
11.00 – 13.00	 Mitral Valve: How to image in 3D and how to document and interpret the findings	N. Merke & F. Knebel
	<i>Lunch Break</i>	
14.00 – 16.00	 Tricuspid Valve: how to image in 3D and how to document and interpret the findings	E. Donal & E. Romero

# Organisation

### ● Faculty

#### Course Directors

- **Prof. Dr. Volkmar Falk**, DHZC – Deutsches Herzzentrum der Charité
- **Dr. Nicolas Merke**, DHZC – Deutsches Herzzentrum der Charité

#### Program & Organizing Committee

- **Dr. Elena Romero Dorta**, DHZC – Deutsches Herzzentrum der Charité
- **PD Dr. Axel Unbehaun**, DHZC – Deutsches Herzzentrum der Charité
- **Prof. Dr. Henryk Dreger**, DHZC – Deutsches Herzzentrum der Charité
- **Dr. Tugba Kemalğlu Öz**, Liv Hospital Group, Ulus
- **Prof. Dr. Felix Schönrath**, DHZC – Deutsches Herzzentrum der Charité

#### Preliminary Speakers

- **PD Dr. med. Ole-A. Breithardt**, Kardiologische Privatpraxis, Kassel
- **Prof. Dr. Adrian C. Borges**, Sana Klinikum Lichtenberg
- **Erwan Donal**, Centre Hospitalier Universitaire de Rennes
- **Prof. Dr. med. Andreas Flammer**, Universitätsspital Zürich
- **Dr. Francesca Graziani**, Policlinico Universitario Agostino Gemelli
- **Prof. Dr. Andreas Hagendorff**, Universitätsklinikum Leipzig Klinik u. Poliklinik
- **PD Dr. med. Bettina Heidecker**, DHZC – Deutsches Herzzentrum der Charité
- **Dr. Esra Kaya**, University of Oslo
- **Prof. Dr. Fabian Knebel**, Sana Klinikum Lichtenberg
- **PD Dr. Jan Knierim**, Sana Paulinenkrankenhaus
- **PD Dr. Marian Kukucka**, DHZC – Deutsches Herzzentrum der Charité
- **Dr. Alexander Mladenow**, DHZC – Deutsches Herzzentrum der Charité
- **Andreea-Iulia Motoc**, UZ Brussel
- **Dr. med. Sascha Ott**, DHZC – Deutsches Herzzentrum der Charité
- **Dr. Konstantinos Papadopoulos**, Interbalkan Medical Center
- **Prof. Dr. Evgenij Potapov**, DHZC – Deutsches Herzzentrum der Charité
- **Prof. Dr. med. Christoph Starck**, DHZC – Deutsches Herzzentrum der Charité
- **Dr. med. Ekaterina Stellbrink**, Klinikum Bielefeld
- **Mani Vannan**, Piedmont Heart Institute
- **Prof. Dr. Frederik Verbrugge**, UZ Brussel

### ● Admission

#### Who is this workshop aimed at?

This workshop is designed for all echocardiographers who are dealing with heart failure and heart valve pathologies, either already using 3D or beginning to use it. All sessions are intended to be as practical as possible, offering personal tips and tricks on how 3D is used in daily practice.

We will offer comprehensive step by step approach on how to acquire and use 3D in different clinical scenarios. On day 3 participants will have the opportunity to work on real 3D datasets with international known experts in the field. This workshop will help to improve 3D imaging skills.

#### Fees for participation in presence

- 3 days presence with hands-on session – **800 €**
- 2 days presence without hands-on session – **400 €**

#### Fees for online-participation

- 2 days online access - **300 €**

Please register here:

[buchung.dhzb-akademie.de](https://buchung.dhzb-akademie.de)

#### Contact Person

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The event can be followed via X (Twitter) #3DEchoBerlin thanks to our X (Twitter) ambassadors who will share some of the concepts and collect comments and questions of the attendees for the faculty.

#### X (Twitter) Ambassadors

- **Erik Rafflenbeul**  
**@kardiologieHH**
- **Vladyslav Kavalerchik**  
**@echo\_stepbystep**