

# Advanced Echocardiography techniques in structural heart disease and heart failure

## #3DEchoBerlin

● Date

January  
**24-26**  
2025

● Location

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

and **Online**

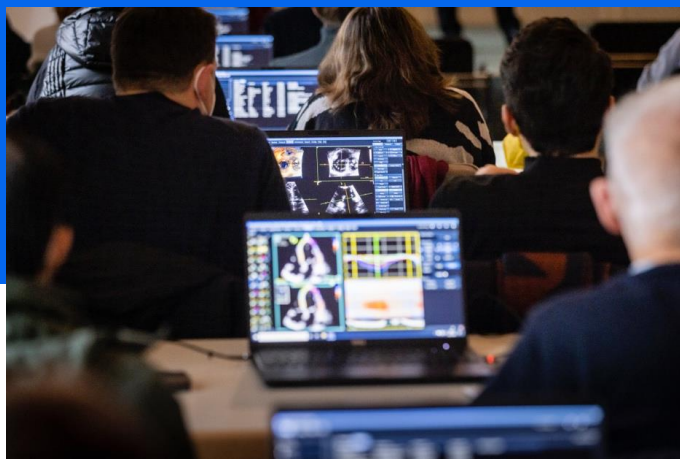
Cooperation Partners



DEUTSCHES HERZZENTRUM  
DER CHARITÉ



Event endorsed by



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 of heart failure and valvular heart disease with experts with regards to ESC/EATCS Guidelines on Heart Failure and the management of valvular heart disease. 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 2 attendees for 1 Workstation) 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!

Volkmar Falk / Nicolas Merke

# Program

Day 1	Friday, January 24, 2025	Planned speakers
09.30 – 09.45	Introduction to the course	N. Merke & V. Falk
Session Chairs	E. Kaya, C. Fiore, A. Felix	
09.45 – 10.40	Basics and how to do 3D, Speed case presentation & discussion	N. Merke
10.40 – 11.35	Basics and how to do Strain even 3D, Speed case presentation & discussion	E. Stellbrink
	<i>Coffee Break</i>	
12.00 – 13.00	Basics and how to do Echo Contrast even 3D, Speed case presentation & discussion	A. Hagendorff
	<i>Lunch Break</i>	
Session Chairs	M. Vannan, F. Timmermanns, A. Hagendorff, F. Schönrath	
14.00 – 14.45	Update in Stress testing in VHD including clinical case presentation	J. Verwerft
14.45 – 15.20	The 10 Things to know about RV Function & discussion	M. Vannan
15.20 – 16.00	Case based Step by step in 3D LV / RV in Heart failure & VHD	A. Motoc
	<i>Coffee Break</i>	
16.30 – 17.15	Why and when to use 3D for the RV & TR. A very interactive, critical and provocative Discussion	M. Vannan & participants
17.15 – 18.30	Case corner following EACVI consensus documents / ESC Guidelines with discussion <i>Discussant: M. Vannan, A. Hagendorff, F. Schönrath</i>	E. Stellbrink, A. Felix, F. Giordano & S. Kommareddy Sho (Winners GsOC Case report competition)
Day 2	Saturday, January 25, 2025	
Session Chairs	A. Hagendorff, M. Vannan, M. Kofler	
09.00 – 09.55	ESC Guideline Evidence and outcome-based quantification of mitral regurgitation by echocardiography, challenging cases & discussion	F. Graziani
09.55 – 10.50	2D and 3D assessment of Mitral valve: how to do, challenging cases & discussion	C. Fiore
	<i>Coffee Break</i>	
11.20 – 12.10	Use of 3D in special Mitral Valve cases with step-by-step to show pathology & discussion	A. Mladenow & N. Merke
12.10 – 13.20	Case-based echo-guided decision making in the heart team: surgery or intervention, which device in MV Regurgitation? (Background & Case presentation) & discussion	H. Dreger & M. Kofler & E. Romero
	<i>Lunch Break</i>	
Session Chairs	N. N., E. Romero, E. Donal	
14.20 – 15.15	2D and 3D assessment of Tricuspid valve how to do, challenging cases & discussion	T. Kemalgluo Öz
15.15 – 15.45	Intervention in ASD and how to address RV function (Tricuspid valve of interest?)	K. Papadopoulos
15.45 – 16.40	Use of 3D in special Tricuspid valve cases with step-by-step to show pathology & discussion	E. Kaya
	<i>Coffee Break</i>	
17.10 – 18.30	Case corner competition and discussion Closing remarks	P. Bertrand, C. Fiore, E. Zancanaro (Winner of GSoC Case report competition), E. Donal
Day 3	Sunday, January 26, 2025 (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	 Tricuspid Valve: how to image in 3D and how to document and interpret the findings	E. Donal & E. Romero
	<i>Lunch Break</i>	
14.00 – 16.00	 Mitral Valve: How to image in 3D and how to document and interpret the findings	N. Merke & F. Knebel
	EBAC evaluation	

# 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
- **Prof. Dr. Henryk Dreger**, DHZC – Deutsches Herzzentrum der Charité
- **Dr. Francesca Graziani**, Policlinico Universitario Agostino Gemelli
- **Prof. Dr. Andreas Hagendorff**, Universitätsklinikum Leipzig Klinik u. Poliklinik
- **Dr. Tugba Kemalğlu Öz**, Liv Hospital Group, Ulus
- **Prof. Dr. Felix Schönrrath**, DHZC – Deutsches Herzzentrum der Charité

### Preliminary Speakers

- **Prof. Philippe Bertrand**, Hartcentrum Hasselt
- **Prof. Erwan Donal**, Centre Hospitalier Universitaire de Rennes
- **Dr. Alex Felix**, National Institute of Cardiology
- **Dr. Corrado Fiore**, Città di Lecce Hospital
- **Dr. Esra Kaya**, University of Oslo
- **PD Dr. med. Markus Kofler, MSc**, DHZC – Deutsches Herzzentrum der Charité
- **Prof. Dr. Fabian Knebel**, Sana Klinikum Berlin Lichtenberg
- **Dr. Alexander Mladenow**, DHZC – Deutsches Herzzentrum der Charité
- **Dr. Andreea-Iulia Motoc**, UZ Brussel
- **Prof. Dr. Konstantinos Papadopoulos**, Interbalkan Medical Center
- **Dr. Ekaterina Stellbrink**, Klinikum Bielefeld
- **Prof. Dr. Frank Timmermanns**, University Hospital Ghent
- **PD Dr. Axel Unbehaun**, DHZC – Deutsches Herzzentrum der Charité
- **Mani Vannan**, Piedmont Heart Institute
- **Dr. Jan Verwerft**, Hartcentrum Hasselt

## ● 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 – **500 €**

### Fees for online-participation (broadcasted professionally)

- 2 days online access - **100 €**

Please register [here](#).

### Contact Person

Luisa Gade

Phone: +49 30 4593 7155

E-Mail: [programs@dhzb-akademie.de](mailto:programs@dhzb-akademie.de)

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

### X (Twitter) Ambassador

- **Vladyslav Kavalierchuk**  
**@echo\_stepbystep**