DHZB
AKADEMIE



HYBRID INTERNATIONAL EXPERT WORKSHOP

3D Advanced Echocardiography Workshop

22.01.–24.01.2027

Program Day 1: 22. Jan 27

8:00–9:00	**Registration**	
9:00	**Welcome & Introduction**	

I Basics

Chairs: V. Delgado, E. Romero-Dorta, W. L'Hoyes

9:15	Intro to physics explained by images to show 5 - 7 core principles	F. Timmermans
9:50	How to do 3D from acquisition to comprehensive 3D images	N. Merke
10:25	Contrast in unexpected ways (Endocarditis, Regurgitation, Stenosis and vascular)	A. Hagendorff
11:00	**Coffee break**	
11:30	Live Knobology on GE	N. Merke & A. Felix
12:00	**Cases**	
12:05	Quick 3D case atrial septum disease: how 3D made the difference	K. Papadopulos
	10 min Discussion	
12:25	Quick 3D case valvular heart disease: how 3D made the difference	C. Fiore
	10 min Discussion	
12:50	**Live Knobology on Philips**	R. Brandt & T. Ruf
13:15	**Lunch break**	

II Cardiac function is not only EF we need to go beyond in acute settings

Chairs: F. Schönrath, E. Potapov, E. Stellbrink, E. Kaya

14:00	LV & RV Volume or EF a practical guide to comprehensive 3D assessment (EF, SV, GLS)	N. Merke
	10 min Discussion	
14:35	Critical care echo to trigger therapy and treatment decisions in acute heart failure: from diuretics to mechanical circulatory support (MCS)	L. Gargani
	10 min Discussion	

15:10	Medical therapy in acute Heart Failure: from decongestion to inotropic support as simple take home message	F. Verbrugge
	10 min Discussion	
15:40	Clinical case: The impressive power of medications	A. Felix
	10 min Discussion	
16:00	MCS the last resort in acute HF despite optimal guideline directed therapy	E. Potapov
16:20	Clinical case: Heart failure cases	M. Vannan
	10 min Discussion	

16:55 **Coffee break**

III Valvular Heart Disease - What parameter to use in valvular regurgitation

Chairs: V. Delgado, V. Reskovic, B.Shah

17:30	Defining Moderate-to-Severe Valvular Regurgitation: Key Echo Parameters in Practice What is moderate to severe in AR and MR?	N. Merke
	10 min Discussion	
18:05	Practical Transthoracic Echo Strategies for Aortic Regurgitation in the presence of Mitral Regurgitation: How to ace Aortic regurgitation by transthoracic echo if there is also Mitral Regurgitation	P. Bertrand
	10 min Discussion	
18:45	TEE in AR beyond looking at Jet: Advanced TEE techniques: 3D volumetric assessment, vena contracta area, diastolic flow reversal. Never description eminence based only	A. Mladenow
	10 min Discussion	

Program Day 2: 23. Jan 27

IV Case based learning

Chairs: E. Donal, A. Sannino, A. Leo

8:45	Overview: What is recommended in VHD. “Which parameter do you actually trust in daily practice?” Guideline-based approach (ESC/EACTS, ASE/EACVI). Multiparametric logic, where echo fails vs where it helps.	F. Timmermans
	10 min Discussion	
9:15	MR – PISA Step by step, Hemodynamic assumptions Practical acquisition tips, Typical pitfalls (eccentric jets, multiple jets, AF)	B. Shah
	10 min Discussion	
9:45	MR – 3D VCA vs 2D VC. Why VC ≠ VCA. Cut-offs & feasibility. How to acquire usable 3D color datasets, Cropping workflow (step-by-step). Where to measure VCA. Typical measurement planes	E. Romero
	10 min Discussion	
10:15	TR – 3D VCA, Why TR is a different beast. Annular dynamics & jet complexity. When 3D VCA is the first choice	A. Felix
10:45	AR – Volumetric approach, Stroke volume logic	E. Stellbrink
	10 min Discussion	
11:15	AR & MR – Let’s be logic. Cross-checking inconsistencies. How to resolve discordant parameters. LV size, pulmonary pressure, Doppler signals always part of the equation	A. Hagendorff

11:45 **Coffee break**

V Advanced Echo Tools in ICU

Chairs: A. Hagendorff, A.Motoc, S. Olyusana

12:15	Echo Contrast in daily practice going deep beyond thrombus & border detection. A step by step approach to when and how to do	A. Ewers
	10 min Discussion	
12:45	3D Echocardiography to image coronary arteries in the ICU. When to use and how to do – Tool or Toy	A. Hagendorff
	10 min Discussion	
13:15	Lung and diastolic assessment with echo in ICU – integrating lung ultrasound with echo for fluid management	E. Argaiz
	10 min Discussion	

13:40	**Lunch Break**	

VI Echo in ICU

Chairs: C. Knosalla, L. Reichert, E. Rafflenbeul

14:30	How to reliably assess the RV by 2D/3D Echo. 3D seems to be the most complete choice or are we chasing the rainbow? A practical approach	M. Vannan
	10 min Discussion	
15:00	ECMO hemodynamics seen by Echo is an impossible task. How to ace it and guide therapy. Integration of 2D techniques with 3D is the key	S. Olyusana
	10 min Discussion	
15:35	Pericardial effusion or Tamponade. When pressure wins over function is 2D echo only, but there is a tiny place for 3D and even for contrast	J. Knierim
	10 min Discussion	

VII Cardiomyopathy Pathway

Chairs: M. Vannan, A Lombardo, B. Heidecker

16:05	Landscape of Pathology	F. Graziani
	10 min Discussion	
16:35	Landscape of medical therapy	M. Pieroni
	10 min Discussion	
17:05	Landscape of surgical therapy	C. Knosalla
	10 min Discussion	
17:35	**Coffee break**	

VIII Imager Masterclass

18:00	MV Case presentation	C. Fiore
	10 min Discussion	
18:20	TV Case presentation	T. Kemaloglu
	10 min Discussion	

18:40	LV case presentation	A. Leo
	10 min Discussion	
19:00	ICU case presentation	E. Stellbrink
	10 min Discussion	
19:20	**Closing remarks**	N. Merke

Program Day 3: 24. Jan 27

3D Hands on with GE (EchoPAC Station)

8:30–11:00	LV & RV Function and a glimpse at aortic valve	A. Hagendorff / V. Kavalercyk
11:15–13:15	Tricuspid Valve	E. Romero / E. Donal
13:15	**Lunch break**	
14:15–16:30	Mitral Valve	N. Merke / A. Mladenow

3D Hands on with Philips (TomTec)

8:30–11:00	LV & RV Function and a glimpse at aortic valve	R. Brandt / V. Delgado (?)
11:15–13:15	Mitral Valve	V. Delgado / A. Leo
13:15	**Lunch break**	
14:15–16:30	Tricuspid Valve	T. Ruf

Register here

CONTACT

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ORGANISATION

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www.dhzb-akademie.de/course/3d-workshop/

LOCATION

H4 Hotel Berlin Alexanderplatz
Karl-Liebknecht-Str. 32
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DR. NICOLAS MERKE
OBERARZT UND LEITER ECHOKARDIOGRAPHIE DEGUM III KURSLEITER
DEUTSCHES HERZZENTRUM DER CHARITÉ

List of Speakers

Name	Klinik / Institution
Alexander Mladenow	Deutsches Herzzentrum Charité
Andreea-Iulia Motoc	UZ Brussel
Segun Olusanya	St Bartholomew's Hospital
Konstantinos Papadopoulos	Interbalkan Medical Center
Maurizio Pieroni	Careggi University Hospital Firenze
Evgenij Potapov	Deutsches Herzzentrum Charité
Erik Rafflenbeul	Schön Klinik, Kardiologie Hamburg
Vlatka Reskovic	University Hospital Centre Zagreb (KBC Zagreb)
Elena Romero Dorta	Deutsches Herzzentrum Charité
Tobias Ruf	Universitätsmedizin der Johannes Gutenberg-Universität Mainz
Anna Sannino	Deutsches Herzzentrum Charité
Felix Schönrath	Deutsches Herzzentrum Charité
Benoy Shah	University Hospital Southampton
Ekaterina Stellbrink	Klinikum Bielefeld
Frank Timmermans	Ghent University, Ghent (Belgium)
Mani Vannan	Piedmont Heart Institute
Frederik Verbrugge	University Hospital (UZ) Brussels

List of Speakers

Name	Klinik / Institution
Philippe Bertrand	Hartcentrum Hasselt
Roland Brandt	Kerckhoff Klinik
Victoria Delgado	University Hospital Germans Trias i Pujol, Spain
Erwan Donal	Centre Hospitalier Universitaire de Rennes
A. Ewers	–
Alex Felix	National Institute of Cardiology
Corrado Fiore	Città di Lecce Hospital
Luna Gargani	University of Pisa
Francesca Graziani	Policlinico Universitario Agostino Gemelli
Andreas Hagendorff	Universitätsklinikum Leipzig
Vladyslav Kavalerchyk	Twitter Tutor & Referent Workshop
Esra Kaya	Sykehuset i Vestfold HF
Tugba Kemalğlu Öz	Liv Hospital Group
Jan Knierim	SANA Klinikum
Christoph Knosalla	Deutsches Herzzentrum Charité
Wouter L' Hoyes	Imelda Hospital Bonheiden
Laura Anna Leo	Istituto Cardiocentro Ticino
Antonella Lombardo	Università Cattolica del Sacro Cuore
Nicolas Merke	Deutsches Herzzentrum Charité