



European Association
of Cardiothoracic Anaesthesia
and Intensive Care



EACTAIC

**ECHO 20
COURSE 26**

June, 13th-16th

Charité - Universitätsmedizin Berlin,
Campus Benjamin Franklin | Berlin, Germany

BASIC COURSE

DAY ONE

Saturday June 13th

08:00 - 08:15	WELCOME	
08:15 - 09:15	INTRODUCTION INTO ECHOCARDIOGRAPHY AND TTE	How ultrasound works Doppler Principles Know your machine - Knobology
09:15 - 10:45	INTERACTIVE LIVE DEMONSTRATION - BASIC TTE VIEWS	
10:45 - 11:00	COFFEE BREAK	
11:00 - 12:30	2D TTE HANDS-ON WORKSHOP	
12:30 - 13:30	LUNCH BREAK	Welcome New pulmonary artery catheter TEE and PAC - how and when they fit together Podium discussion
13:30 - 14:30	VENTRICLE FUNCTION	Systolic LV Function Diastolic LV Function Systolic RV Function
14:30 - 15:30	ECHOCARDIOGRAPHY IN ICU	FOCUS Hemodynamic Calculations Thoracic Ultrasound
15:30 - 16:00	COFFEE BREAK	
16:00 - 17:00	INTRODUCTION INTO TEE	Indications, Contraindications, Safety TEE probe handling and Image Optimization 11 views (Reeves) and Reporting
17:00 - 17:30	KEYNOTE LECTURE	Echo as basis for an in-depth understanding of hemodynamics
17:30	WELCOME RECEPTION	



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BASIC COURSE

DAY TWO

Sunday June 14th

08:00 - 08:15	WELCOME	
08:15 - 09:15	THE VALVES	Aortic valve Mitral valve Tricuspid and Pulmonic valve
09:15 - 10:45	INTERACTIVE LIVE DEMONSTRATION - VALVES / DIASTOLIC FUNCTION	
10:45 - 11:00	COFFEE BREAK	
11:00 - 12:30	2D TTE HANDS-ON WORKSHOP	
12:30 - 13:30	LUNCH BREAK	Podium discussion
13:30 - 14:30	AORTA, PROTHESIS AND AROUND THE HEART	Aorta Prosthetic valves Pericardium, Masses and Foreign bodies
14:30 - 15:30	MISCELLANEOUS	Artifacts and Pitfalls Myocardial Deformation US for vascular access
16:30	ADJOURN	





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ADVANCED COURSE

DAY ONE

Saturday June 13th

08:00 - 08:15	WELCOME	
08:15 - 09:15	JOINT SESSION WITH TORONTO - HEART FAILURE (HF) AND ECHOCARDIOGRAPHY	Recent guidelines - Definition The Role of TEE in ECMO/MCS weaning The role of TEE for LVAD/Transplant Management
09:15 - 10:15	TEE IN GUCH AND PEDIATRIC CARDIAC SURGERY	TEE in repaired Fallot / Fontane GUCH and non-cardiac surgery - monitoring with TEE Common pediatric cases
10:15 - 11:00	COFFEE BREAK	
11:00 - 12:15	JOINT SESSION WITH SCA - TEE IN USA - DIFFERENT THAN IN EUROPE?	TTE for CABG - The American Perspective The future of Echocardiography - role of AI 3D Color - Tips and Tricks Podium discussion
12:30 - 13:30	LUNCH BREAK	Welcome New pulmonary artery catheter TEE and PAC - how and when they fit together Podium discussion
13:30 - 14:30	ECHOCARDIOGRAPHY IN ICU	Echo during Cardiac Arrest/hemodynamic instability Echo in ARDS/Pulmonary Hypertension Lung ultrasound for the management of acute circulatory failure (FALLS- protocol)
14:30 - 15:30	3D KNOBOLOGY	MPR Role of 3D color and new imaging technologies 3D - When TEE made a difference
15:30 - 16:00	COFFEE BREAK	
16:00 - 17:00	WHEN TEE MAKES A DIFFERENCE!	Functional MR during CABG surgery? Functional TR during MR repair? Dynamic LVOT obstruction and Prosthesis-Patient-Mismatch
17:00 - 17:30	KEYNOTE LECTURE	Echo as basis for an in-depth understanding of hemodynamics
17:30	WELCOME RECEPTION	



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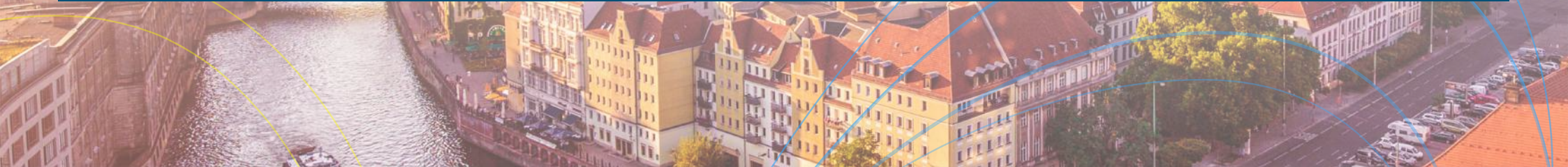
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ADVANCED COURSE

DAY TWO

Sunday June 14th

08:00 - 08:15	WELCOME	
08:15 - 10:00	HEART WETLAB 3D WORKSHOP	
10:00 - 10:30	COFFEE BREAK	
10:30 - 11:30	JOINT SESSION EACVI - THE VALVES	Interventional MR repair Interventional TR repair (incl. ICE) TAVI - still room for echocardiography?
11:30 - 12:30	ECHOCARDIOGRAPHY IN AORTO-VASCULAR AND THORACIC SURGERY	TEE in aortic/vascular Surgery TEE in Emphysema Surgery TEE in lung transplant
12:30 - 13:30	LUNCH BREAK	Podium discussion
13:30 - 14:30	AORTIC VALVE DISEASE	Assessment of Aortic Stenosis - what's new? Aortic Valve Repair - is it feasible? Complex AV procedures - how to guide the surgeon?
14:30 - 15:30	MISCELLANEOUS	Endocarditis - tasks of the echocardiographer Prosthetic valves dysfunction - what to measure? Cardiac tumours
15:30 - 16:30	INTERACTIVE ECHO ROUNDS	
16:30	ADJOURN	





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**CERTIFICATION
COURSE
DAY ONE**
Monday June 15th

08:00 - 08:15	WELCOME AND INTRODUCTION	
08:15 - 09:25	BASIC AND ESSENTIALS OF ECHOCARDIOGRAPHY	Review of Ultrasound Physics Image optimization: know your echo machine Storage and Reporting Safety and complications of TOE
09:25 - 10:20	INTERACTIVE CASE PRESENTATIONS	
10:20 - 10:40	<i>COFFEE BREAK</i>	
10:40 - 11:55	LV AND RV ASSESSMENT	LV systolic Assessment LV diastolic Assessment RV Function Assessment
11:55 - 13:00	<i>LUNCH BREAK</i>	
13:00 - 14:00	INTERACTIVE CASE PRESENTATIONS	
14:00 - 15:00	MITRAL VALVE	Mitral valve evaluation Mitral valve Pathology
15:00 - 15:20	<i>COFFEE BREAK</i>	
15:20 - 16:20	INTERACTIVE CASE PRESENTATIONS	
16:20 - 16:45	TRICUSPID AND PULMONIC VALVES	
16:45 - 17:05	HAEMODYNAMIC ASSESSMENT IN ACUTE AND CHRONIC CLINICAL SCENARIOS	
17:05 - 17:30	INTERACTIVE CASE PRESENTATIONS	
17:30	ADJOURN	



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**CERTIFICATION
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DAY TWO**

Tuesday June 16th

08:00 - 08:15 WELCOME AND INTRODUCTION

08:15 - 09:25 AORTIC VALVE SESSION

Aortic Valve
Aortic Valve Pathology
Prosthetic valves evaluation

09:25 - 10:25 INTERACTIVE CASE PRESENTATIONS

10:25 - 10:45 *COFFEE BREAK*

10:45 - 11:50 OTHER CARDIAC PATHOLOGIES

Diseases of the Aorta
Cardiac Masses and Sources of embolism
Basic Congenital Heart Disease in Adults

11:50 - 12:20 INTERACTIVE CASE PRESENTATIONS

12:20 - 13:00 3D ECHO

13:00 - 14:00 *LUNCH BREAK*

14:00 - 16:00 EACTAIC ECHO MOCH EXAM (QR CODE Q&A)

16:00 ADJOURN

