

EACTAIC ECHO COURSE BASIC COURSE

SHERATON ZAGREB HOTEL ZAGREB (CROATIA)
JUNE 11-14 2022

DAY ONE JUNE 11

8:00 - 8:20	<i>Welcome and Introduction</i>	
8:20 - 10:00	THE BASIC OF ULTRASOUND	Basic physics of ultrasound TOE: indications, contraindications and safety Basic TTE views - Basic TOE views Imaging Optimization
10:00 - 10:30	<i>Coffee Break</i>	
10:30 - 12:00	WORKSHOP 1	Basic TTE views Standard TOE views Imaging optimization
12:00 - 13:00	<i>Lunch</i>	
13:00 - 15:00	HEMODYNAMICS	Doppler: Principles and measurements Hemodynamic calculations in TOE Assessment of LV global systolic function Assessment of LV regional function Assessment of LV diastolic function Assessment of RV function
15:00 - 15:30	<i>Coffee Break</i>	
15:30 - 17:00	WORKSHOP 2	Left ventricle assessment Right ventricle assessment Case studies and quiz
17:00 - 18:30	WET LAB	

DAY TWO JUNE 12

8:00 - 10:00	VALVES	Aortic valve Mitral valve Tricuspid and pulmonary valve Prosthetic valves Foreign bodies and masses Pericardium
10:00 - 10:30	<i>Coffee Break</i>	
10:30 - 12:00	WORKSHOP 3	Aortic Valve TEE Views Mitral Valve TEE Views Essential Hemodynamics
12:00 - 13:00	<i>Lunch</i>	
13:00 - 15:00	MISCELLANEOUS	Aorta Artifacts and Pitfalls TEE: comprehensive exam and reporting Ultrasound for lung assessment FOCUS US in Vascular Approach
15:00 - 15:30	<i>Coffee Break</i>	
15:30 - 17:00	WORKSHOP 4	FOCUS Lung Ultrasound Vascular Access

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ADVANCED COURSE

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8:00 - 8:20	<i>Welcome and Introduction</i>	
8:20 - 9:50	DECISION MAKING IN AORTIC VALVE DISEASE	Evolving New Concepts in The Assessment of Aortic Stenosis Aortic Valve Repair; How Echo Guides a Decision- 2D and 3D Aortic Valve Repair- Surgical Perspective Pre and Post Assessment; Case Based Discussion
9:50 - 10:20	<i>Coffee Break</i>	
10:20 - 12:30	DECISION MAKING IN MITRAL VALVE DISEASE	MV Repair or Replace- The Essential Echo Information Surgical Point of View- What Surgeon Needs to Know Pre and Post MV Repair Assessment- 2D and 3D Functional MR Minimally Invasive Surgery of Mitral Valve Role of Echocardiography in Estimation of LV Dysfunction After Surgical Interventions on Mitral Valve
12:30 - 13:30	<i>Lunch</i>	
13:30 - 14:50	DECISION MAKING IN TRICUSPID VALVE DISEASE	Echocardiographic Imaging of Tricuspid Valve; 2D and 3D Functional Tricuspid Regurgitation Tricuspid Regurgitation During MV Surgery Case Presentation; Q and A
14:50 - 15:50	DECISION MAKING IN MECHANICAL SUPPORT	TEE in Short Term Mechanical Support Weaning from Short Term Mechanical Support- Role of TEE Decision Making and TEE Monitoring in Intermediate-and Long-Term Mechanical Circulatory Support
15:50 - 16:40	<i>Coffee Break</i>	
16:40 - 18:40	ADULT CONGENITAL HEART DISEASE AND HEART TRANSPLANT	Cardiomyopathies Myocarditis Imaging in heart transplantation ECHO recognition of heart transplantation troubleshooting Nonrepaired ACHD Repaired ACHD

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DAY TWO JUNE 12

8:00 - 10:00	INTERVENTIONAL CARDIOLOGY	TEE For TAVI- Do We Need It/ What Can Go Wrong? Mitral Clip Percutaneous Intervention on TV Paravalvular Leak Closure Procedures - Can 3D Help? ASD and VSD Closure LAA Closure
10:00 - 10:30	<i>Coffee Break</i>	
10:30 - 12:30	MISCELLANEOUS	Evaluation of Endocarditis Complications (Abscesses, VSD, Aortic Root, Vegetations - When Is It Possible to Repair, When to Replace) Comprehensive Review of Complications After Myocardial Infarction Various Tools in Advanced LV and RV Assessment Prosthetic Valves Estimation and Complications Aortic Dissection Complex Aortic Procedures
12:30 - 13:30	<i>Lunch</i>	
13:30 - 15:10	ECHO IN ICU	Hemodynamic Monitoring Using TEE in Patients with Shock TEE During Cardiac Arrest Point-Of-Care Ultrasound in Critically ill Patients (FATE, BLUE, RUSH and FALLS Protocols) Echocardiography in COVID-19 Disease- Comprehensive Approach Echocardiography in Pulmonary Hypertension and ARDS
15:10 - 15:40	<i>Coffee Break</i>	
15:40 - 17:40	ADVANCED APPLICATIONS OF PERIOPERATIVE ECHO	Artificial Intelligence in TEE: How Does It Work and Are We There? The Final Frontier: Valve in Valve Therapy Augmented Echo Reality - VR and 3D Printing Assessment of Acute Changes of Left Ventricular Function During Surgical Revascularization by 3D Speckle Tracking and Strain Peri-Procedural Gradients: What do they tell us?

EACTAIC ECHO COURSE CERTIFICATION COURSE

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DAY ONE JUNE 13

8:00 - 8:20	Welcome and Introduction	
8:20 - 10:00	BASICS	EACTA/EACVI Certification in Adult TOE TOE: Indications, Safety and Complications Review of Ultrasound Physics and Essential Hemodynamics Comprehensive and Abbreviated TOE Exam How to Write a TOE Report
10:00 - 10:30	Coffee Break	
10:30 - 11:30	LV/RV	LV Systolic Function LV Diastolic Function RV Function
11:30 - 12:30	ECHO QUIZ: LV AND RV	
12:30 - 13:30	Lunch	
13:30 - 14:50	MITRAL VALVE	Mitral Valve: Normal Anatomy and Physiology Mitral Valve: Pathology Surgical Mitral Valve Repair Interventional Mitral Valve Repair
14:50 - 15:20	Coffee Break	
15:20 - 16:40	AORTIC VALVE	Aortic Valve: Normal Anatomy and Physiology Aortic Valve: Pathology Surgical Aortic Valve Replacement/ Repair Transcatheter Aortic Valve Procedures
16:40 - 17:40	ECHO QUIZ: MV AND AV	

DAY TWO JUNE 14

8:00 - 9:20	TRICUSPID AND PULMONARY VALVES	Tricuspid and Pulmonary Valve Surgical and Interventional Tricuspid Valve: Replacement and Repair Endocarditis Prosthetic Valves
9:20 - 9:50	Coffee Break	
9:50 - 11:50	MISCELLANEOUS	Pericardial Effusion and Tamponade Pathologies of Aorta Cardiomyopathies Mechanical Circulatory Support Cardiac Masses and Sources of Embolism TEE in Congenital Heart Disease
11:50 - 12:50	Lunch	
12:50 - 14:10	ADVANCE IMAGING	The Essentials of Myocardial Deformation Imaging The Physics of 3D Imaging Essential 3D Examination Clinical and Perioperative Applications of 3D Imaging
14:10 - 15:10	ECHO QUIZ	