

FINAL PROGRAM

EACTAIC

ECHO COURSE

JUNE 11-14 2022

SHERATON ZAGREB HOTEL ZAGREB (CROATIA)



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WELCOME LETTER

Dear Colleagues,

It is a great honor to invite you to the EACTAIC ECHO Course, which will be held at the Sheraton Hotel, Zagreb, from 11 to 14 June 2022.

Hosting an EACTAIC ECHO Course is a great honor and a great commitment. We will do our best to organize this course in accordance with the highest professional standards, but also to make the event and the venue, Zagreb and Croatia, an unforgettable experience for all attendees.

Eminent European and world experts in the field of cardiac ultrasound are involved in the organization and management of the course. The program is divided into three courses: the Basic Course will enable you to acquire basic knowledge of perioperative ultrasound, the Certification Course is aimed at those who are preparing for the EACVI perioperative TEE exam, whereas the aim of the Advanced Course is to give you insight into the latest advances in perioperative ultrasound and enable you to make critical decisions during surgical and interventional cardiology procedures as well as in an ICU setting.

Hands-On Training will provide you with a live experience of transesophageal as well as transthoracic echo exam guided by our teachers.

I am addressing you on behalf of the Organizing Committee and invite you to come to Zagreb to expand your knowledge of perioperative ultrasound as well as to enjoy the beauties Zagreb and Croatia have to offer.



Zdenko Povšić-Čevra
Chair of the Local Organizing Committee

INFORMATION

ABOUT ZAGREB

Zagreb is the capital of Croatia and a typical central European city. It is the cultural, scientific, economic, political and administrative centre of the Republic of Croatia, and home to the Croatian Parliament, the Government of the Republic of Croatia, and the President. Its favourable location – between the Pannonian Basin, the edge of the Alps and the Dinarides – has allowed the city to become a crossing point for mass international communication.

The city is protected from the cold northern winds by the mountain of Medvednica and opens up to the rest of the world thanks to a spacious plain and the Sava river.

Zagreb, with a population of nearly one million, contains almost a quarter of the entire population of Croatia. Zagreb is known for its diverse economy, historical museums, cultural events, sporting and governmental hub. Culturally, it is a European city well worth visiting, with its numerous historical monuments, parks and medieval architecture. Its favourable geographic positioning in the Pannonian Basin gives the city instant access to Central Europe and the Adriatic coast.

Zagreb is on cultural, geographical and historical crossroads of Europe connecting East and West as well as continental and Mediterranean Europe and will welcome you in that cosmopolitan spirit.

ACT OF GOD

It is mutually agreed that in the event of total or partial cancellation of the congress due to fire, strike, natural disaster (either threatened or actual), government regulations or incidents not caused by the organizer, which would prevent its scheduled opening or continuance, the congress may be partially postponed or terminated as a whole. In this case, participants are not entitled to reclaim refunds on no account. Participants are obliged to have civil liability insurance.

BADGES

All delegates and guests will receive a name badge at the registration desk. The badge is the official meeting document and should be worn at all times.

CATERING

Lunches and coffee breaks from Saturday to Tuesday are included in the registration fee. The catering stations for Coffee Breaks are located in the Ballroom Foyer, while lunches will be served in Fontana Restaurant.

CERTIFICATE OF ATTENDANCE

All registered attendees, whether they register in advance or on site, will receive a certificate of attendance after the Echo course via email.

CME ACCREDITATION

The EACTAIC ECHO Course has been accredited by EACCME®, as follows:

Basic Course

June 11-12, 2022 - 15 European CME credits (ECMEC®s)

Advanced Course

June 11-12, 2022 - 15 European CME credits (ECMEC®s)

Certification Course

June 13-14, 2022 - 10 European CME credits (ECMEC®s)

CONGRESS LANGUAGE

The official language of the congress is English. Simultaneous translation is not provided.

CONGRESS VENUE

SHERATON ZAGREB HOTEL

Kneza Borne 2, Zagreb, 10000 Croatia

<https://www.marriott.com/en-us/hotels/zagsi-sheraton-zagreb-hotel/overview/>

INSURANCE

Congress organizers cannot accept liability for personal injuries or for loss of or damage to property belonging to congress participants, either during or as a result of the Congress. Therefore, please check the validity of your own insurance.

NO-SMOKING POLICY

Smoking is strictly prohibited during all meetings and in all buildings at all times.

INFORMATION

INFORMATION FROM A TO Z

Presenting Speakers

Faculty members are kindly requested to bring their own lap top, with their presentation on a USB stick. Faculty Lounge room will be available for the whole Course to check presentations. The technical team will be available at the congress office and in case of need.

Registration

Registration is valid only if the complete fee has been paid in full. Registration on-site is possible during the entire congress within registration desk opening hours.

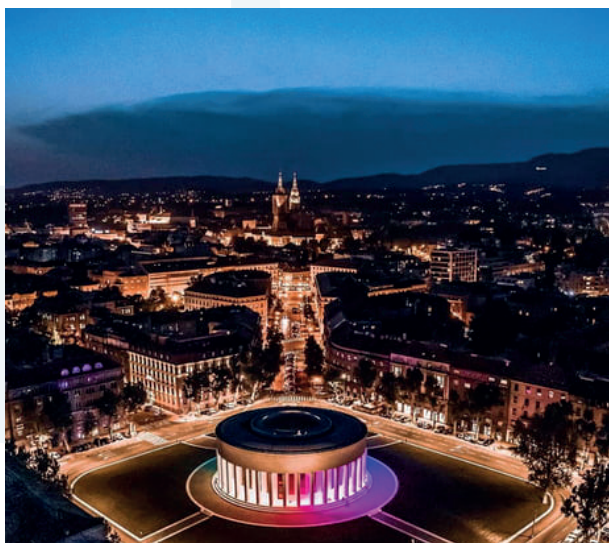
Be aware that on-site registration to the Basic Course, may not be guaranteed as the workshops may be fully booked.

Only credit cards will be accepted for on-site registration. Valid proof of status must be presented on-site when registering at lower rates. Registration fees are published at <https://www.eactaic.org/event/echo-course-2022/> Course participants are encouraged to come for the registration some time before starting lectures in order to avoid queueing.

Welcome Reception

On June 11th at 19:30 a Welcome reception open to all registered participants and faculty will take place at the Meštrović's pavilion (Trg Žrtava Fašizma 16, 10000, Zagreb, Croatia), one of the cultural landmarks of Zagreb and Croatia, built by one of the greatest Croatian sculptors and one of the world's greatest modern sculptors. Today the pavilion serves as an art gallery and is the official seat of the Croatian Society of Fine Artists.

The venue is within walking distance from the hotel, no transfer is foreseen. Participants are kindly requested to reach the Pavilion by themselves.



Photography, Audio, Video and Mobile Phone Policy

Audio, photo and video recording by any device (e.g. cameras, laptops, PDAs, mobile phones, watches) is strictly prohibited during all sessions, unless prior permission is obtained from the congress organizer. Delegates are kindly requested to set their mobile phones on silent mode in rooms where scientific sessions are being held.

Opening hours

Registration counter and congress office:

Sat, 11 June 7:00 - 18:30

Sun, 12 June 7:30 - 18:00

Mon, 13 June 7:30 - 18:00

Tue, 14 June 7:30 - 15:00

CONTACTS

Society

European Association of Cardiothoracic Anaesthesiology and Intensive Care (EACTAIC)

EACTAIC Annual Events Chair

Gianluca Paternoster, PhD

Chair of the Local Organizing Committee

Zdenko Povšič-Čevra

Local organizing committee

Zdenko Povšič-Čevra dr. med., Chair

Prim. Nikola Bradić, dr. med.

Prim. Zrinka Oremuš, dr. med.

Doc. dr. sc. Višnja Ivančan, dr. med.

Prim. dr. sc. Željko Čolak, dr. med.

Dino Mijatović, dr. med.

prof. dr. sc. Jadranka Šeparović Hanževački, dr. med

ORGANIZING SECRETARIAT



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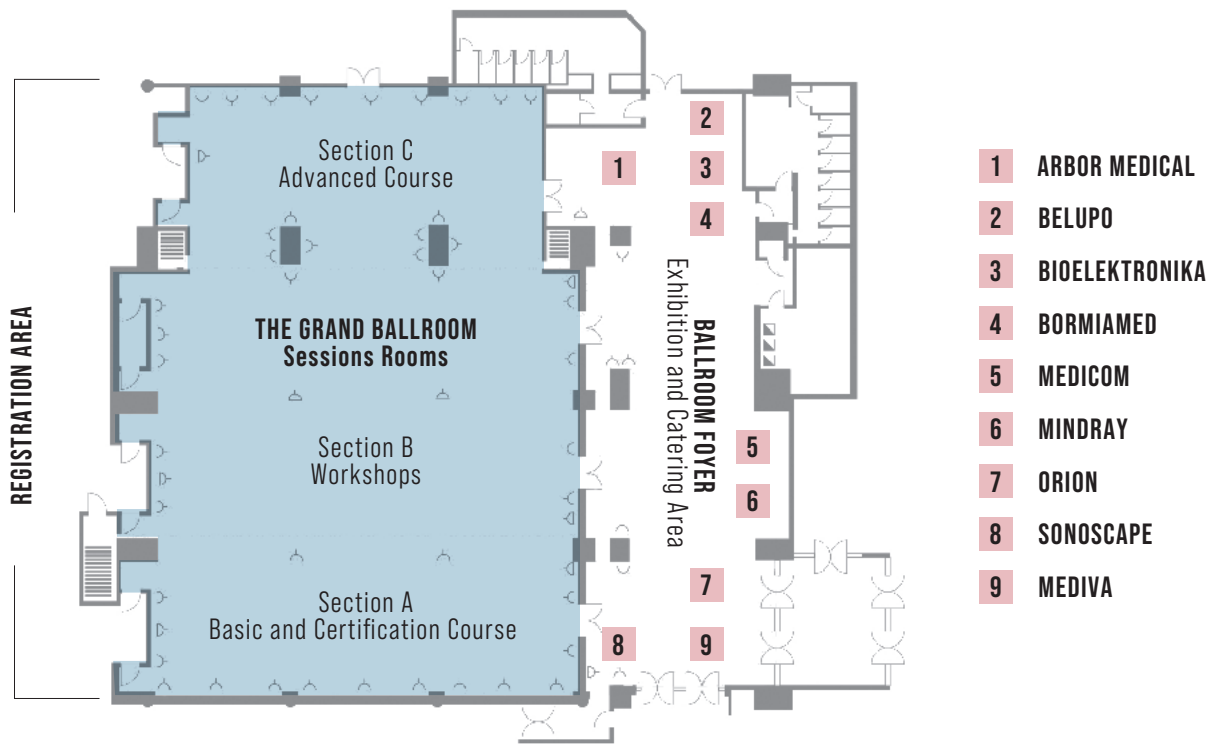
www.eactaic.org



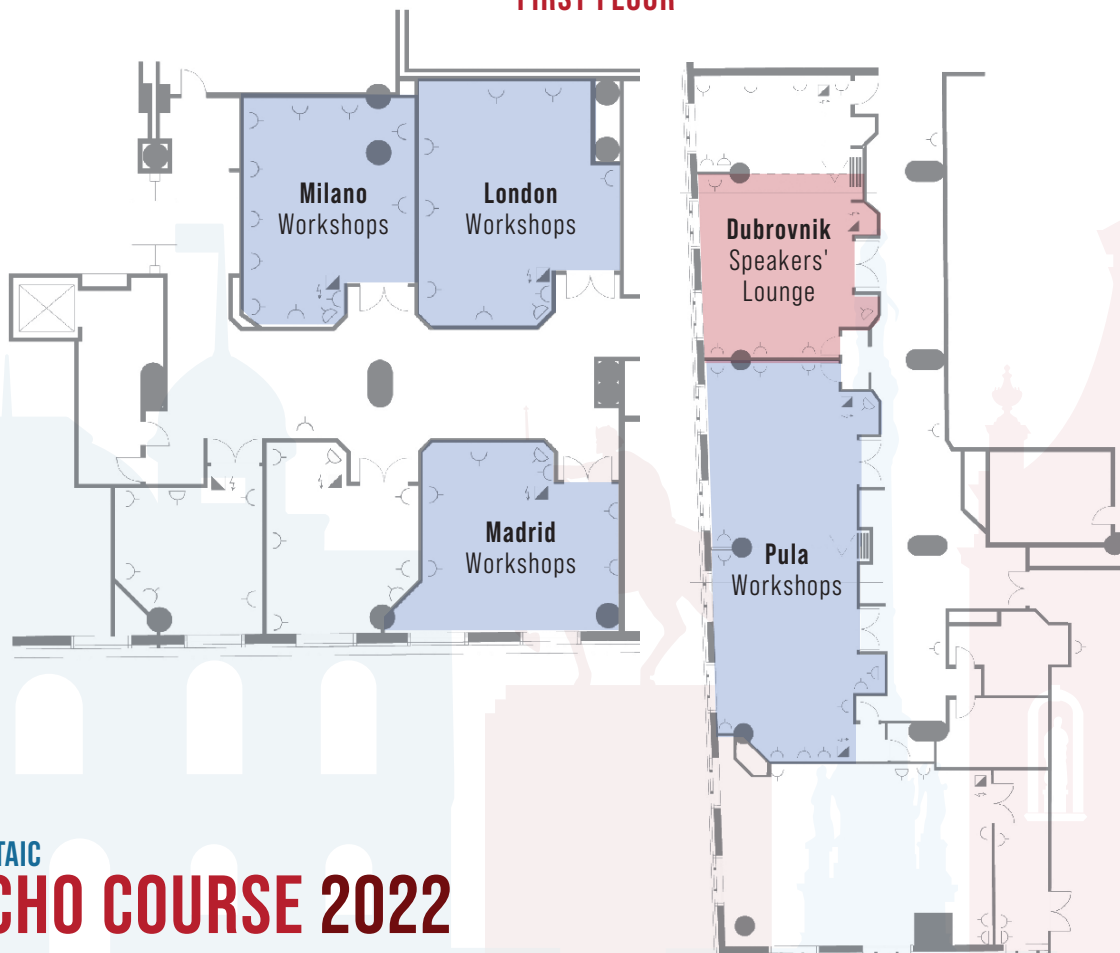
AIM Group has been certified as an Ethical Trusted Partner by MedTech Europe

FLOOR PLAN

GROUND FLOOR



FIRST FLOOR



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

BASIC COURSE

JUNE 11 2022
DAY ONE

08:00-08:20 **Welcome and Introduction**
J. Bence, Z. Povšić-Čevra

THE BASIC OF ULTRASOUND

Moderators: Z. Povšić-Čevra, M. Carev

08:20-08:40 **Basic Physics of Ultrasound**
M. Carev

08:40-09:00 **TOE: Indications, Contraindications and Safety**
Z. Povšić-Čevra

09:00-09:20 **Basic TTE Views**
K. Štambuk

09:20-09:40 **Basic TOE Views**
V. Ivančan

09:40-10:00 **Imaging Optimization**
E. Turton

10:00-10:30 **Coffee break**

10:30-12:00 **WORKSHOP 1**

Basic TTE Views
A. Šustar, K. Šipoš

Standard TOE Views
D Mijatović, Z. Povšić-Čevra

Imaging Optimization
J. Bence, S. Bouchez

12:00-13:00 **Lunch**

BASIC COURSE

JUNE 11 2022
DAY ONE

HEMODYNAMICS

Moderators: Ž. Čolak, A. Mahdi

- 13:00-13:20 **Doppler: Principles and Measurements**
R. Mosca
- 13:20-13:40 **Hemodynamic Calculations in TOE**
Ž. Čolak
- 13:40-14:00 **Assessment of LV Global Systolic Function**
C. Antzaka
- 14:00-14:20 **Assessment of LV Regional Function**
T. Zaninović Jurjević
- 14:20-14:40 **Assessment of LV Diastolic Function**
D. Mijatović
- 14:40-15:00 **Assessment of RV Function**
T. Zaninović Jurjević
- 15:00-15:30 **Coffee break**
- 15:30-17:00 **WORKSHOP 2**
- Left Ventricle Assessment**
J. Bence, Z. Šafarić Oremuš
- Right Ventricle Assessment**
T. Zaninović Jurjević, D. Mijatović
- Case Studies and Quiz**
A. Mahdi, A. Šustar
- 17:00-18:30 **WET LAB**
S. Jakšić Jurinjak, N. Kovačić

BASIC COURSE

JUNE 12 2022
DAY TWO

VALVES

Moderators: J. Swanevelder, D. Mijatović

08:00-08:20

Aortic Valve

N. Bradić

08:20-08:40

Mitral Valve

I. Smoljan

08:40-09:00

Tricuspid and Pulmonary Valve

K. Štambuk

09:00-09:20

Prosthetic Valves

J. Šeparović Hanževački

09:20-09:40

Foreign Bodies and Masses

D. Mijatović

09:40-10:00

Pericardium

A. Mahdi

10:00-10:30

Coffee break

10:30-12:00

WORKSHOP 3

Aortic Valve TEE Views

D. Mijatović, Z. Povšić-Čevra

Mitral Valve TEE Views

A. Šustar, J. Swanevelder

Essential Hemodynamics

K. Štambuk, M. Carev

12:00-13:00

Lunch

BASIC COURSE

JUNE 12 2022
DAY TWO

MISCELLANEOUS

Moderators: A. Protić, S. Moravcova

13:00-13:20

Aorta

J. van der Maaten

13:20-13:40

Artefacts and Pitfalls

I. Smoljan

13:40-14:00

TEE: Comprehensive Exam and Reporting

S. Moravcova

14:00-14:20

Ultrasound for Lung Assessment

A. Protić

14:20-14:40

Focus

S. Treskatsch

14:40-15:00

US in Vascular Approach

A. Protić

15:00-15:30

Coffee break

15:30-17:00

WORKSHOP 4

Focus

A. Mahdi, S. Treskatsch

Lung Ultrasound

A. Protić, S. Bouchez

Vascular Access

S. Moravcova, J. Bence



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Live educational activities, occurring outside of Canada, recognised by the UEMS-EACCME® for ECMEC®s are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada.

EACTAIC ECHO COURSE
ADVANCED 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 - 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

EACTAIC ECHO COURSE
ADVANCED COURSE

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

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?

08:00-08:20 **Welcome and Introduction**
F. Guarracino, J. Šeparović Hanževački

DECISION MAKING IN AORTIC VALVE DISEASE

Moderators: M. Fontes, J. Šeparović Hanževački

08:20-08:40 **Evolving New Concepts in The Assessment of Aortic Stenosis**
M. Fontes

08:40-09:00 **Aortic Valve Repair; How Echo Guides a Decision- 2D and 3D**
Z. Šafarić Oremuš

09:00-09:20 **Aortic Valve Repair- Surgical Perspective**
I. Rudež

09:20-09:40 **Pre and Post Assessment; Case Based Discussion**
J. van der Maaten

09:40-09:50 **Discussion**

09:50-10:20 **Coffee break**

DECISION MAKING IN MITRAL VALVE DISEASE

Moderators: C. Mukherjee, J. Šeparović Hanževački

10:20-10:40 **MV Repair or Replace- The Essential Echo Information**
S. Jakšić Jurinjak

10:40-11:00 **Surgical Point of View- What Surgeon Needs to Know**
I. Stojanović

11:00-11:20 **Pre and Post MV Repair Assessment- 2D and 3D**
V. Rešković Lukšić

11:20-11:40 **Functional MR**
F. Guarracino

11:40-12:00 **Minimally Invasive Surgery of Mitral Valve**
C. Mukherjee

12:00-12:20 **Role of Echocardiography in Estimation of LV Dysfunction After Surgical Interventions on Mitral Valve**
J. Šeparović Hanževački

12:20-12:30 **Discussion**

12:30-13:30 **Lunch**

DECISION MAKING IN TRICUSPID VALVE DISEASE

Moderators: S. Jakšić Jurinjak, M. Meineri

13:30-13:50 **Echocardiographic Imaging of Tricuspid Valve; 2D and 3D**
M. Meineri

13:50-14:10 **Functional Tricuspid Regurgitation**
J. Bence

14:10-14:30 **Tricuspid Regurgitation During MV Surgery**
S. Jakšić Jurinjak

14:30-14:50 **Case Presentation; Q and A**
M. Meineri, S. Jakšić Jurinjak

DECISION MAKING IN MECHANICAL SUPPORT

Moderators: P. Wouters, N. Bradić

14:50-15:10 **TEE in Short Term Mechanical Support**
M. Mondino

15:10-15:30 **Weaning from Short Term Mechanical Support- Role of TEE**
N. Bradić

15:30-15:50 **Decision Making and TEE Monitoring in Intermediate- and Long-Term Mechanical Circulatory Support**
P. Wouters

15:50-16:40 **Coffee break**

ADULT CONGENITAL HEART DISEASE AND HEART TRANSPLANT

Moderators: S. Bouchez, D. Bettex

16:40-17:00 **Cardiomyopathies**
S. Bouchez

17:00-17:20 **Myocarditis**
M. Fontes

17:20-17:40 **Imaging in Heart Transplantation**
J. Swanevelde

17:40-18:00 **ECHO Recognition of Heart Transplantation Troubleshooting**
M. Mondino

18:00-18:20 **Nonrepaired ACHD**
I. Ivanac Vranešić

18:20-18:40 **Repaired ACHD**
D. Bettex

INTERVENTIONAL CARDIOLOGY

Moderators: F. Kletzin, J. Bence

- 08:00-08:20 **TEE For TAVI- Do We Need It/ What Can Go Wrong?**
K. Štambuk
- 08:20-08:40 **Mitral Clip**
F. Kletzin
- 08:40-09:00 **Percutaneous Intervention on TV**
C. Mukherjee
- 09:00-09:20 **Paravalvular Leak Closure Procedures - Can 3D Help?**
J. Swanevelder
- 09:20-09:40 **ASD and VSD Closure**
I. Smoljan
- 09:40-10:00 **LAA Closure**
A. Šustar
- 10:00-10:30 **Coffee break**

MISCELLANEOUS

Moderators: V. Rešković Lukšić, S. Moravcova

- 10:30-10:50 **Comprehensive Review of Complications After Myocardial Infarction**
S. Moravcova
- 10:50-11:10 **Various Tools in Advanced LV and RV Assessment**
V. Rešković Lukšić
- 11:10-11:30 **Evaluation of Endocarditis Complications (abscesses, VSD, aortic root, vegetations - when is it possible to repair, when to replace)**
E. Turton
- 11:30-11:50 **Prosthetic Valves Estimation and Complications**
S. Jakšić Jurinjak
- 11:50-12:10 **Aortic Dissection**
J. Bence
- 12:10-12:30 **Complex Aortic Procedures**
M. Fontes
- 12:30-13:30 **Lunch**

ADVANCED COURSE

JUNE 12 2022
DAY TWO

ECHO IN ICU

Moderators: S. Bouchez, F. Guarracino

- 13:30-13:50 **Hemodynamic Monitoring Using TEE in Patients with Shock**
F. Guarracino
- 13:50-14:10 **TEE During Cardiac Arrest**
S. Treskatsch
- 14:10-14:30 **Point-Of-Care Ultrasound in Critically ill Patients (FATE, BLUE, RUSH and FALLS Protocols)**
A. Mahdi
- 14:30-14:50 **Echocardiography in COVID-19 Disease- Comprehensive Approach**
S. Bouchez
- 14:50-15:10 **Echocardiography in Pulmonary Hypertension and ARDS**
J. Bence
- 15:10-15:40 **Coffee break**

ADVANCED APPLICATIONS OF PERIOPERATIVE ECHO

Moderators: M. Meineri, C. Mukherjee

- 15:40-16:20 **Artificial Intelligence in TEE: How Does It Work and Are We There?**
F. Kletzin
- 16:20-16:40 **The Final Frontier: Valve in Valve Therapy**
J. Ender
- 16:40-17:00 **Augmented Echo Reality - VR and 3D Printing**
R. Mosca
- 17:00-17:20 **Assessment of Acute Changes of Left Ventricular Function During Surgical Revascularization by 3D Speckle Tracking and Strain**
P. Wouters
- 17:20-17:40 **Peri-Procedural Gradients: What do they tell us?**
C. Mukherjee



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EACTAIC ECHO COURSE CERTIFICATION COURSE

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

DAY ONE JUNE 13

8:00 - 8:20	<i>Welcome and Introduction</i>	
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	<i>Coffee Break</i>	
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	<i>Lunch</i>	
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	<i>Coffee Break</i>	
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	<i>Coffee Break</i>	
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	<i>Lunch</i>	
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	

CERTIFICATION COURSE

JUNE 13 2022
DAY ONE

08:00-08:20

Welcome and Introduction

P. Wouters, J. van der Maaten

BASICS

Moderators: J. van der Maaten, M. Carev

08:20-08:40

EACTA/EACVI Certification in Adult TOE

J. van der Maaten

08:40-09:00

TOE: Indications, Safety and Complications

Z. Šafarić Oremuš

09:00-09:20

Review of Ultrasound Physics and Essential Hemodynamics

M. Carev

09:20-09:40

Comprehensive and Abbreviated TOE Exam

F. Guarracino

09:40-10:00

How to Write a TOE Report

S. Moravcova

10:00-10:30

Coffee break

LV/RV

Moderators: Ž. Čolak, T. Antoniou

10:30-10:50

LV Systolic Function

P. Wouters

10:50-11:10

LV Diastolic Function

Ž. Čolak

11:10-11:30

RV Function

T. Antoniou

11:30-12:30

ECHO QUIZ: LV AND RV

P. Wouters, A. Šustar

12:30-13:30

Lunch

CERTIFICATION COURSE

JUNE 13 2022
DAY ONE

MITRAL VALVE

Moderators: J. Bence, R. Mosca

13:30-13:50 **Mitral Valve: Normal Anatomy and Physiology**
J. Fassel

13:50-14:10 **Mitral Valve: Pathology**
C. Mukherjee

14:10-14:30 **Surgical Mitral Valve Repair**
R. Mosca

14:30-14:50 **Interventional Mitral Valve Repair**
J. Ender

14:50-15:20 **Coffee break**

AORTIC VALVE

Moderators: N. Bradić, J. Swanevelder

15:20-15:40 **Aortic Valve: Normal Anatomy and Physiology**
N. Bradić

15:40-16:00 **Aortic Valve: Pathology**
J. Swanevelder

16:00-16:20 **Surgical Aortic Valve Replacement/Repair**
Z. Šafarić Oremuš

16:20-16:40 **Transcatheter Aortic Valve Procedures**
M. Meineri

16:40-17:40 **ECHO QUIZ: MV AND AV**
J. Šeparović Hanževački, J. van der Maaten

CERTIFICATION COURSE

JUNE 14 2022
DAY TWO

TRICUSPID AND PULMONARY VALVES

Moderators: E. Turton, D. Bettex

- 08:00-08:20 **Tricuspid and Pulmonary Valve**
J. van der Maaten
- 08:20-08:40 **Surgical and Interventional Tricuspid Valve: Replacement and Repair**
D. Bettex
- 08:40-09:00 **Endocarditis**
E. Turton
- 09:00-09:20 **Prosthetic Valves**
A. Šustar
- 09:20-09:50 **Coffee break**

MISCELLANEOUS

Moderators: V. Ivančan, J. Swanevelder

- 09:50-10:10 **Pericardial Effusion and Tamponade**
V. Ivančan
- 10:10-10:30 **Pathologies of Aorta**
J. Swanevelder
- 10:30-10:50 **Cardiomyopathies**
S. Bouchez
- 10:50-11:10 **Mechanical Circulatory Support**
M. Mondino
- 11:10-11:30 **Cardiac Masses and Sources of Embolism**
V. Ivančan
- 11:30-11:50 **TEE in Congenital Heart Disease**
I. Ivanac Vranešić
- 11:50-12:50 **Lunch**

CERTIFICATION COURSE

JUNE 14 2022
DAY TWO

ADVANCE IMAGING

Moderators: J. Ender, J. Bence

12:50-13:10

The Essentials of Myocardial Deformation Imaging

S. Treskatsch

13:10-13:30

The Physics of 3D Imaging

A. Šustar

13:30-13:50

Essential 3D Examination

J. Fassl

13:50-14:10

Clinical and Perioperative Applications of 3D Imaging

J. Ender

14:10-15:10

ECHO QUIZ

J. Bence, J. Ender, Z. Povšić-Čevra, D. Bettex



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