# Programme at a Glance

**Saturday 17th May**

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<td>08:00 - 09:45</td>
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<td>09:45 - 11:00</td>
<td>Tea/Coffee Live Transmission 1</td>
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**Sunday 18th May**

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<td>Advanced Course 3D Mitral Valve</td>
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<td>Advanced Course 3D LV &amp; RV</td>
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**Monday 19th May**

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<td>13:45 - 18:30</td>
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Basic Course Day 1, Saturday 17th May

Seminarraum

Learning objectives: At the conclusion of the Basic Course the participant will be able to understand the essentials of echocardiography required for understanding the morphology and pathology of cardiac disease process. They should be able to recognize the standard views as per EAE /ESC guidelines and implement the knowledge for comprehensive qualitative and quantitative assessment of underlying cardiovascular disease. The experts will explain individually the anatomical views and the correlation with echocardiographic views and their implementation in routine practice. The aim is to gain familiarity for study standardization and practical application experience from presented lecture series.

8:00 – 8:15 Welcome and Introduction (15 minutes) Chirojit Mukherjee & Patrick Wouters

Learning Objectives: The session, followed by the workshop, will give a detailed insight to principles of ultrasound and acquisition of Doppler. Doppler principles along with their clinical application will also be demonstrated. The necessity of a comprehensive study demonstrating standard trans-thoracic and trans-esophageal standard views will be established, leading to enhancement of echo cardiographer's medical knowledge and skills. It will also highlight the technical settings required to produce an image by skilful augmentation of the available controls on the echo machine.

Chair Persons: Joachim Erb, Henry Skinner

8:15 – 8:45 Basic Physics of US Joachim Erb

8:45 – 9:15 Basic TEE Views Peter Rosseel

9:15 – 9:45 Basic TTE Views Eric Sloth

9:45 – 10:15 Optimization of Imaging Parameters Henry Skinner

COFFEE BREAK 10:15 – 10:45

Workshop 1: 10:45 – 12:15

1 hour 30 minutes (30 minutes for each station)

TOE Standard Views
Carmine Bevilacqua
Aniruddha Janai

TTE Standard Views
Eric Sloth
Markus Feussner

Image Enhancement
Joachim Erb
Arne Käthner

Konferenzraum
10:45-11:15 Group 1
11:15-11:45 Group 2
11:45-12:15 Group 3

Seminarraum foyer & Bibliothek
10:45-11:15 Group 2
11:15-11:45 Group 3
11:45-12:15 Group 1

Besprechungsraum
10:45-11:15 Group 3
11:15-11:45 Group 1
11:45-12:15 Group 2
Basic Course Day 1, Saturday 17th May

LUNCH BREAK 12:15 – 13:30

Session: Principles of Doppler and haemodynamic measurements
Chair Person: Gregory Fischer

13:30 – 14:00 Doppler: Principles and measurements Gregory Fischer

Learning Objectives: The aim is to provide the participant:

• Adequate knowledge to understand the principles and equation of Doppler
• Information to analyse and intercept Doppler angle and Doppler shift
• Explanation for understanding the phenomenon of aliasing
• Skills to minimize Doppler imaging artifacts and pitfalls

14:00 – 14:30 Hemodynamic Calculations using TEE Sascha Trekatsch

Learning Objectives: The participant will know how to:

• Use 2D and M-Mode for hemodynamic calculations
• Calculate regurgitant volume and fractions
• Calculate stroke volume and estimate filling pressures of left ventricle
• Estimate intracardiac or pulmonary pressures by combining pressure gradients

Session: Right Sided Valves

14:30 – 15:00 The Right Ventricle Patrick Wouters

Learning Objectives: The participant will be able to:

• Differentiate between the normal and abnormal right heart anatomy
• Assess right ventricle function and size as per the existing guidelines
• Distinguish the difference of echocardiographic findings in volume and pressure overload

COFFEE BREAK 15:00 – 16:00

WET LAB 16:00 – 17:00 Markus Feussner & Arne Käthner

Learning Objectives: The participant will learn how to:

• Apply surface anatomy for dissecting the heart
• Familiarize for coronary anatomy visualization and consequently causes for wall motion abnormalities
• Approach by order of dissection
• Step-by-step methodology with detailed explanation and echocardiographic correlation with the anatomic structure in view.

WELCOME RECEPTION 17:00 – 18.00
Basic Course Day 2, Sunday 18th May

Seminarraum

Session: Valves and Ventricles
Chair Persons: Manfred Seeberger, Jörg Ender

8:30 – 9:15 Tricuspid Valve Alain Berrebi

Learning Objectives: The participant will be shown:
• Standard views for assessment of tricuspid and pulmonary valve
• Assessment of the degree of severity of regurgitation and stenosis as per the guidelines
• Case examples demonstrating the pathological states influencing clinical decision making
• Associated views supportive for comprehensive evaluation of tricuspid valve

9:15 – 10:00 The Left Ventricle Manfred Seeberger

Learning Objectives: The participant will learn how to:
• Evaluate systolic function in different echo windows
• Differentiate between the “good” and the “bad” ventricle using qualitative and quantitative parameters
• Assess regional wall motion abnormalities and their associated coronary supply
• Approach a systematic evaluation of Diastolic function/dysfunction of the left ventricle

Session: Hemodynamics & Quantification

10:00 – 10:45 Aortic Valve Arno Nierich

Learning Objectives: The learner will be exposed to:
• Standard views for assessment of aortic valve
• Evaluation of pathology of aortic stenosis and regurgitation
• Different methods to assess the severity as per the guidelines and their associated findings
• Different pathological scenarios dealing with practical approach to the underlying pathology

10:45 – 11:30 Mitral Valve Jörg Ender

Learning Objectives: The participant will be shown how to:
• Acquire standard views for assessment of mitral valve
• Determine the degree of severity using the standard guidelines for assessing regurgitation and stenosis
• Evaluate the mitral valve based on case examples for intraoperative decision making
• Look for associated findings and correlate them along with systemic evaluation for clinical decision making

COFFEE BREAK  11:30 – 12:00

Workshop 2: 12:00 – 13:30
1 hour 30 minutes (30 minutes for each station)

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<th>Right Ventricle</th>
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<th>TEE Simulator</th>
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<tr>
<td>Patrick Wouters</td>
<td>Manfred Seeberger</td>
<td>Carmine Bevilacqua</td>
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<td>Michael Weidenbach</td>
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Basic Course Day 2, Sunday 18th May

LUNCH BREAK 13:30 – 14:30

Session Outside and Beyond (30 minutes each)
Chair Persons: Justiaan Swanevelder, Joachim Erb

14:30 – 15:00 The great vessels and pericardium Justiaan Swanevelder

Learning Objectives: The learner will be able to
• Define echocardiographic anatomy of aortic root, ascending aorta and arch
• Recognize pathologies affecting the thoracic aorta
• Determine pericardial pathological states and their echo findings
• Distinguish complications associated with disease of thoracic aorta

15:00 – 15:30 Indication and safety of TEE Isabelle Michaux

Learning Objectives: The lecture will emphasize on:
• Indications and contra-indications for perioperative TEE
• Safety of TEE in routine clinical practice
• Maintenance and cleaning of TEE probe
• Literature based evidence

15:30 – 16:00 Artifacts and Pitfalls Joachim Erb

Learning Objectives: The participant will be able to:
• Distinguish between artifacts and pitfalls
• Determine different types of artifacts
• Implication in routine practice
• Tips to avoid false interpretation

16:00 – 16:30 Comprehensive exam and Reporting Donna Greenhalgh

Learning Objectives: The lecture will elucidate:
• Comprehensive and abbreviated perioperative TEE examination
• Modified views to demonstrate emergent and relevant pathologies
• Requirement for training and development of competence
• Detailed documentation of performed examination

COFFEE BREAK 16:30 – 17:00

17:00 – 18:00 ECHO Quiz (TED Session) Chirojit Mukherjee & Henry Skinner
Advanced Course Day 1, Saturday 17th May

Hörsaal

Learning objectives: At the conclusion of the Advanced Course the participant will have a detailed insight in perioperative decision making. This course will be dealing mostly with problem based learning discussion (PBLD) module. The echo cardiographer will be exposed to complex case scenarios and be provided with didactic sessions to deal with them. This will benefit the participants to learn "out of the box" and provide a systematic approach to resolve difficult findings in the operating room. The course is also helpful for doctors preparing for TEE accreditation.

8:00 – 8:15 Welcome & Introduction
Chair Person: Jörg Ender

Session: Hybrid Procedures
8:15 – 8:45 Transcatheter Valves Jens Fassl
Learning Objectives: The lecture will give insight into:
- Different modes of transcatheter valve implantation
- Echocardiographic parameters necessary for assessment and implantation
- Step-by-step echocardiographic deployment

8:45 – 9:15 Mitral Clip: Pros & Cons Jörg Ender
Learning Objectives: The participant will be exposed to:
- Step-by-step deployment of mitral clip
- "What to look for and when"
- Complications of the mitral clip procedure

9:15 – 9:45 What can go wrong in TAVR? Chirojit Mukherjee
Learning Objectives: The lecture will demonstrate:
- Why patient selection is important
- Complications of TAVR
- Tips and tricks to avoid them

COFFEE BREAK/Live Transmission 9:45- 11:00 (Live Mitral Clip Implantation and Pre-op Mitral valve assessment in Minimal Invasive technique) Moderation: Chirojit Mukherjee

Session: 3D Echocardiography
Chair Person: Burkhard Mackensen

11:00-11:30 Basic Principles, Acquisition and Interpretation Francesco Faletra
Learning Objectives: The participant will be given a:
- Detailed description of techniques to acquire 3D images
- Technical aspects of 3D imaging
- Acquisition and usage of quantification platform

11:30-12:00 Mitral Valve: 3D perspective Gregory Fischer
Learning Objectives: This lecture will enable you to:
- Guide through the different modes of 3D mitral valve acquisition
- Advantages of 3D assessment compared to 2D assessment
- Present implications and limitations of 3D echo for mitral valve
### Advanced Course Day 1, Saturday 17th May

**12:00-12:30 LV and RV Function in 3D echo assessment** Burkhard Mackensen

Learning Objectives: The lecture will deal with:
- Different modes of 3D acquisition for ventricular assessment
- Precise quantification modules for accurate measurements
- Technical facets and limitation associated with it

### Session: Myocardial Imaging
Chair Person: Andreas Hagendorff

**13:30-14:00 Myocardial Imaging: How helpful in OR setting?** Patrick Wouters

Learning Objectives: Participants will benefit from:
- Learning the different modules of myocardial velocity waveforms
- Clinical applications of tissue Doppler and myocardial Doppler imaging
- Present use and limitations of myocardial imaging

**14:00-14:30 TDI and Speckle Tracking: Can we use it?** Andreas Hagendorff

Learning Objectives: The lecture will establish:
- Use of myocardial velocities in global systolic and diastolic function
- Advantages and limitations in routine use
- Speckle tracking and 2D Strain: technological advancements and limitations

**14:30-15:00 Quantification and Evaluation of Systolic Function** Joost van der Maaten

Learning Objectives: The participant will be given detailed:
- Description of myocardial assessment of global and regional ventricular function
- Concept of post systolic shortening and index
- Description of Torsion and global ventricular function

### Session: Heart Failure
Chair Person: Fabio Guarracino

**15:30-16:00 TEE for Ventricular Assist Device (VAD)** Markus Feussner

Learning Objectives: The partaker will be provided with:
- Detailed description of indication and contraindication of assist device deployment
- Echocardiographic findings pre and post operative for successful outcome
- Different assist device available and their complications of VAD implantation

**16:00-16:30 Cardiac Masses** Frank Kletzin

Learning Objectives: Participants will benefit from:
- An overview of different cardiac masses commonly and uncommonly seen in in the operating room
- Implications and false interpretation of these masses
- Differential diagnosis and Pitfalls

**16:30-17:00 Diastolic Dysfunction** Fabio Guarracino

Learning Objectives: The lecture will deal with:
- Methods and principles and pathophysiology of diastolic dysfunction
- Different phases and clinical implication for routine practice
- Future methods and limitations of measuring diastolic dysfunction

### COFFEE BREAK/Live Transmission (Post operative mitral valve repair) 15:00-15:30
Moderation: Jörg Ender

### Session: Heart Failure
Chair Person: Fabio Guarracino

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- Different phases and clinical implication for routine practice
- Future methods and limitations of measuring diastolic dysfunction

**WELCOME RECEPTION 17:00 – 18.00**
Advanced Course Day 2, Sunday 18th May

Hörsaal

Session: Clinical Dilemmas
Chair Person: Justiaan Swanevelder, Alain Berrebi

8:30 – 9:00 Unable to wean: How helpful is TOE Dominique Bettex

Learning Objectives: The talk will highlight:
• Essentials of difficulty in weaning from cardiopulmonary bypass
• Common and unexpected perioperative causes in difficult weaning
• “Trouble shooting” using echo to solve the problem

9:00 – 9:30 TR with MR: To repair or leave it alone! Sascha Trekatsch

Learning Objectives: Participants will understand:
• Pathophysiology of MR associated TR
• Algorithm for decision making to operate or not to operate
• Impact on outcome-experience and literature based!

9:30 – 10:00 Patient Prosthetic Mismatch (PPM) Justiaan Swanevelder

Learning Objectives: The participant will be shown:
• Causes and predictors for PPM
• Case scenario, intraoperative causes and long term outcome for PPM
• Echo findings and intraoperative decision making

10:00 – 10:30 Residual MR after MVR: what to do? Alain Berrebi

Learning Objectives: The lecture will explain:
• Causes for postoperative residual MR
• Surgical decision making algorithm: to treat or not to treat!
• Importance of echo in decision making

COFFEE BREAK 10:30 – 11:00

Session: TEE in valve sparing operations
Chair Person: Jean Louis Vanoverschelde

Learning Objectives: The participant will benefit:
• By understanding the pathology to distinguish between repair and replacing a valve
• Complications for valve sparing operations
• Echocardiographic parameters and associated findings necessary for decision making to replace/repair

11:00 – 11:30 Aortic Valve Repair Jean Louis Vanoverschelde
11:30 – 12:00 Mitral Valve Repair Gregory Fischer
12:00 – 12:30 Tricuspid Valve repair Frank Kletzin

LUNCH BREAK 12:30-13:30
WORKSHOPS 13:30-15:00

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<td>Chirojit Mukherjee</td>
<td>Jörg Ender</td>
<td>Markus Feussner</td>
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COFFEE BREAK 15:00-15:30

Chair Person: Chirojit Mukherjee

15:30 -16:00 HOCM and Cardiomyopathies Burkhard Mackensen

Learning Objectives: The lecture will emphasize:
- Echo findings to differentiate between constrictive and restrictive cardiomyopathy
- Echo parameters for DCM and HOCM
- Limitation of perioperative echo and associated findings with case differential diagnosis

16:00-17:00 Complex case discussion with Experts (4 case discussion: 15 minutes each)
John Kneeshaw, Justiaan Swanevelder, Chirojit Mukherjee & Fabio Guarracino

A panel of echocardiographic experts will explain how to approach difficult cases in a systematic manner. The participants will benefit by discussing on a 1-1 basis with the experts the problems which are commonly encountered, but difficult to solve, in the operating room!
Certification Course Day 1, Monday 19th May

Hörsaal

8:30-8:45 Welcome Address  Jörg Ender, Patrick Wouters
  Chair Person: John Kneeshaw, Joachim Erb
8:45-9:05 Know your echo-machine & optimize!  Joachim Erb
9:05-9:25 Safety, Indications and Contraindication for TOE  Frank Flachskampf
9:25-9:45 Comprehensive TOE Examination  Peter Rosseel
9:45-10:05 How to write a comprehensive TOE report  John Kneeshaw

COFFEE BREAK  10:05-10:30

Chair Person: Manfred Seeberger

10:30-10:50 LV Systolic function and newer modes of assessment  Manfred Seeberger
10:50-11:10 LV Diastolic function  Fabio Guarracino
11:10-11:30 RV function  Donna Greenhalgh

VALVES:
  Chair Person: Dominique Bettex
11:30-12:00 Mitral valve: A systematic evaluation  Dominique Bettex
12:00-12:30 Mitral valve Pathologies: Repair or replace?  Francesco Faletra

LUNCH BREAK  12:30-13:30

Chair Person: Henry Skinner

13:30-14:00 Aortic valve: A systematic evaluation  Justiaan Swanevelder
14:00-14:30 Aortic valve pathologies: repair/replacement  Henry Skinner
14:30-15:00 Tricuspid and Pulmonary valve  Jens Fassl

COFFEE BREAK  15:00-15:30

Chair Person: Joost van der Maaten

15:30-15:50 Endocarditis  Joost van der Maaten
15:50-16:10 Prosthetic valves  Chirojit Mukherjee
16:10-16:30 Echocardiographic assessment of Aorta  Arno Nierich
16:30-17:30 ECHO Quiz  Chirojit Mukherjee & Henry Skinner
Certification Course Day 2, Tuesday 20th May

Hörsaal

Chair Person: Isabelle Michaux

8:30-8:50 Cardiac Masses  Frank Kletzin
8:50-9:10 Tamponade & Pericardial Disease  Isabelle Michaux
9:10-9:30 Congenital heart & GUCH  Ingo Daehnert
9:30-9:50 Artifacts & Pitfalls  Joachim Erb

COFFEE BREAK  9:50-10:15

Chair Person: Patrick Wouters

10:15-10:45 Myocardial Deformation Imaging  Patrick Wouters
10:45-11:15 Clinical applications of 3D Echocardiography  Francesco Faletra
11:15-11:45 EACTA/EACVI Certification in adult TOE  John Kneeshaw
11:45-12:00 Closing annotations  Jörg Ender

TOE Certification Examination

13:00-13:45 Registration
13:45-18:30 Exam*

* EACVI/EACTA reserves the right to modify this schedule if required.