3RD STRESS ECHO INTERPRETATION COURSE

14th–18th October 2019
Buckingham / Milton Keynes University Hospital

Course Director:
Prof. Attila Kardos

COURSE SUMMARY

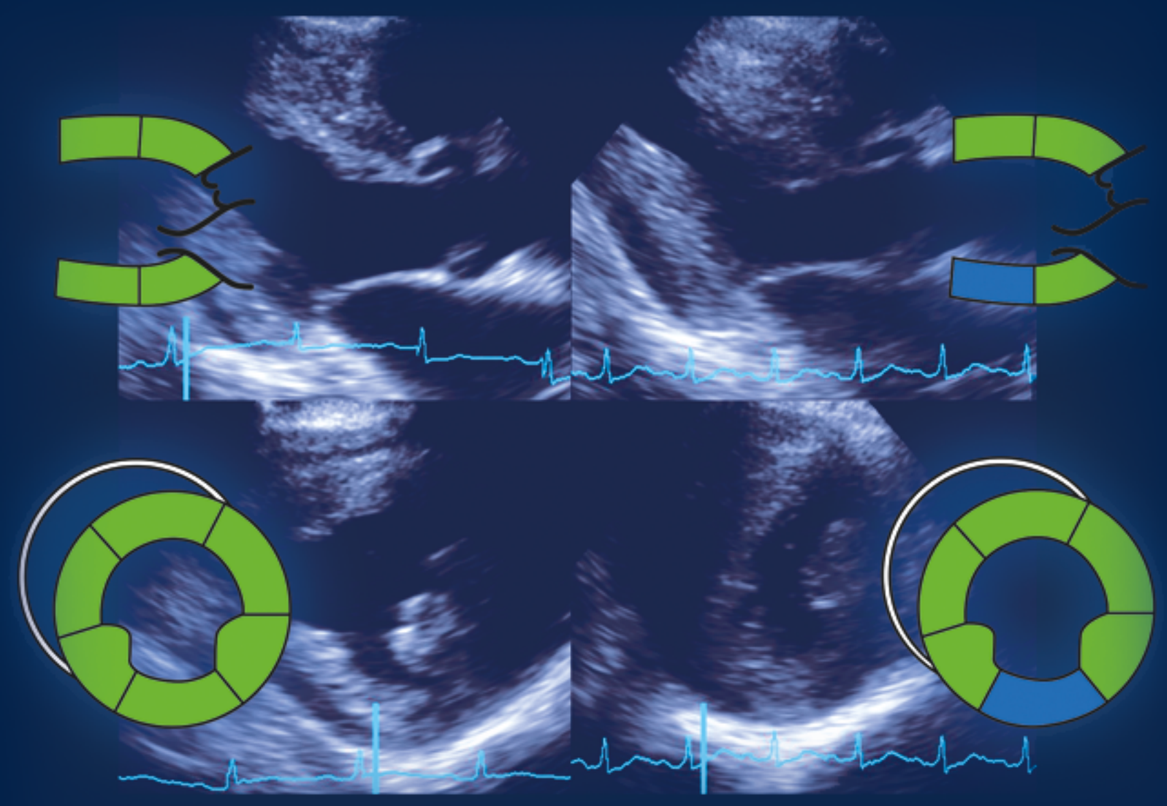
The 5 days course will teach participants about the basics of stress echocardiography and its value in clinical settings (see course syllabus) as well as the workstation based 1:1 reporting sessions aim to develop skills and competency in reporting stress echo for ischaemia and viability detection and in structural heart disease. The course will familiarise participants with the use of stress echo in non-ischaemic heart conditions according to the latest European guidelines. The stress echo analysis will be performed on the specialised echo software platform by TomTec.

Formal lectures will provide the theoretical and practical tutorials. Workstation based 150 uploaded cases for image analysis will be delivered and saved for individual participants as their logbook. At the end of the course there will be a formal competency in reporting assessment of 20 cases (approximate pass mark 60%). By completing the course you will be provided with a course completion certificate. If the reporting exam results meet the 60% mark a competency certificate in interpreting stress echocardiography will be issued.

Please register online via the TOMTEC website.

TOMTEC ACADEMY

14TH–18TH OCTOBER 2019



INVITATION

3RD STRESS ECHO INTERPRETATION COURSE

TOMTEC

TOMTEC ACADEMY

Save the date!

Please register via TOMTEC webpage / workshops or directly with this link: https://www.tomtec.de/index.php?id=410

Early registration until 31 July 2019: £700
EACVI members: £630
Late registration after 31 July 2019: £900
EACVI members: £810
There is a 10% discount for members of the EACVI.

End of course exam and certificate, electric logbook on USB stick of 150 cases and a course dinner on Wednesday 16 October is included. Accommodation and travel is not included.

COURSE SYLLABUS

1. Stress echo lab: (equipment) (treadmill, Bicycle, pharmacological agents) (vasodilators, Regadason, Adenosin, Dipyridamol, Dobutamine, ergometrin)
2. Physiology of stress test (using exercise and pharmacological agents)
3. Echocardiograph: acquisition, quad, views, rest-low dose-peak-recovery for stress echo. Pre stress test minimal echo dataset, echo acquisition during SE: 2D LV (apical 4CV, 3CV, 2CV, PSLAX, PSSAX) 3D LV, CE 2D and 3D. Peak trigged low MI perfusion images, Data analysis: RWMA at rest and during stress test
4. Safety of stress echocardiography
5. Contrast agents and its safety
6. Contrast echocardiograph setup, administration of different contrast agents, echo parameters. The evidence of use of contrast.
7. Safety equipment
8. Ischaemia detection
9. Viability assessment
10. Risk assessment prior high risk surgery
11. SE for non-ischaemic conditions
12. SE in Valvular heart disease
    a) Aortic valve stenosis (moderate, severe asymptomatic, low flow low gradient severe AS with LVSD, low flow low gradient severe AS with preserved LVSF)
    b) Aortic valve regurgitation (asymptomatic)
    c) Mitral valve stenosis (mod –severe?)
    d) Mitral valve regurgitation asymptomatic
    e) Congenital
13. Diastolic SE (to investigate the cause of breathlessness)
14. Dilated CMP
15. Hypertrophic cardiomyopathy
16. Pulmonary hypertension
17. Athletes heart
18. Accreditation in stress echocardiography (who should perform, minimum numbers etc)
19. Multimodality imaging in IHD and VHD
20. Others
21. ESC /EACVI and ASE guidelines

FACULTY

Local

Professor Attila KARDOS MD, PhD, FRCP, FESC
Consultant Cardiologist
Professor of Cardiovascular Medicine, University of Buckingham, Hon Senior Lecturer Univ Oxford, Milton Keynes University Hospital, UK

Dr László HALMAI MD, MRCP, FESC
Consultant Cardiologist
Milton Keynes University Hospital, UK

Mr Diogo MARTINS
Senior Chief Physiologist
Departmental Manager Milton Keynes University Hospital UK

International

Professor Harald BECHER MD, PhD, FRCP
Heart&Stroke Foundation Chair for Cardiovascular Research ABACUS, Mazankowski Alberta Heart Institute, University of Alberta Hospital, Edmonton, Alberta, Canada

Professor Paul LEESON PhD FRCP FESC
Professor of Cardiovascular Medicine
Clinical Director, Oxford Cardiovascular Clinical Research Facility
John Radcliffe Hospital. Oxford. UK

INFORMATION

Organiser & Course Director:
Professor Attila KARDOS MD, PhD, FRCP, FESC
Consultant Cardiologist (EACVI member)

Co-directors:
Dr László HALMAI MD, MRCP, FESC
Consultant Cardiologist (EACVI member)

Professor Harald BECHER MD, PhD, FRCP
Chair of Mazankowski Alberta Heart Institute, University of Alberta Hospital, Edmonton, Canada

Date: 14–18–October 2019.
Venue: Witan Gate - Board Room, Witan Gate House, Milton Keynes Central, MK9 1GB United Kingdom

Sponsors of the Course are:
Technical Support from TOMTEC Imaging Systems GmbH, Educational support from Bracco UK Ltd, Philips Medical Ltd, Lamepro & CS Diagnostics.

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CS DIAGNOSTICS

LAMEPRO

COURSE PROGRAMME 3RD STRESS ECHO INTERPRETATION COURSE

MONDAY 14 OCTOBER

Chair: Paul Leeson & Attila Kardos

9:00–9:15	Lecture 1 . Indications for stress echocardiography (ESC/EACVI// NICE/ASE guidelines) safety.	Attila Kardos
9:20–9:35	Lecture 2 . Stress echocardiography modalities, laboratory requirements, safety (ESC/EACVI//NICE/ASE guidelines).	Harald Becher
9:40–9:55	Lecture 3 . Equipment, acquisition, interpretation (ESC/EACVI// NICE/ASE guidelines).	Attila Kardos
10:00–10:25	Lecture 4 . Contrast echocardiography in the stress echo lab, the latest guidelines, safety (ESC/EACVI//NICE/ASE guidelines).	Harald Becher
10:30–10:45	Lecture 5 . Equipment settings, trouble shooting pitfalls of Contrast echocardiography.	Attila Kardos
10:45–11:15	Coffee break	Chair: Paul Leeson & Attila Kardos
11:15–11:30	Lecture 6. Ischaemia detection and viability assessment with stress echocardiography (EACVI//ASE guidelines).	Paul Leeson
11:30–11:45	Lecture 7. Risk assessment prior high risk surgery with stress echocardiography (EACVI//ASE guidelines).	Laszlo Halmai
11:45–12:00	Lecture 8. Stress echo in Valvular heart disease (Aortic Valve stenosis) (EACVI//ASE guidelines).	Attila Kardos
12:00–13:00	Lunch break	
13:00–13:15	Lecture 9 . Stress echo in Valvular heart disease (Aortic Valve regurgitation) (EACVI//ASE guidelines).	Laszlo Halmai
13:20 – 13:35	Lecture 10 . Stress echo in Valvular heart disease (Mitral Valve stenosis) (EACVI//ASE guidelines).	Laszlo Halmai
13:40–13:55	Lecture 11 . Stress echo in Valvular heart disease (Mitral Valve regurgitation) (EACVI//ASE guidelines).	Harald Becher
14:00–15:00	Workstation analysis 1. Stress echocardiography for Ischaemia detection	
15:00–15:15	Coffee break	
15:15–17:15	Workstation analysis 2. Stress echocardiography for Ischaemia detection	
	Q & A session	

TUESDAY 15 OCTOBER

Chair: Attila Kardos

9:00–9:15	Lecture 12. Stress echo in structural heart disease (Hypertrophic Cardiomyopathy).	Laszlo Halmai
9:15–10:15	Workstation analysis 3.	
10:15–11:30	Coffee break	
10:30–12:30	Workstation analysis 4.	
12:30–13:30	Lunch break	
13:30–13:50	Lecture 13 Diastolic stress echo to investigate the cause of exertional breathlessness.	Laszlo Halmai
13:50–14:55	Workstation analysis 5.	
14:55–15:10	Coffee break	
15:10–18:00	Workstation analysis 6.	
	Summary / Q & A session	

WEDNESDAY 16 OCTOBER

Chair: Attila Kardos

9:00–10:15	Workstation analysis 7.	
10:15–11:30	Coffee brake	
10:30–12:30	Workstation analysis 8.	
12:30–13:30	Lunch break	
13:30–13:50	Lecture 14 Stress echo in Pulmonary hypertension	Laszlo Halmai
13:50–14:55	Workstation analysis 9.	
14:55–15:10	Coffee break	
15:10–18:00	Workstation analysis 10.	
	Summary / Q & A session	

THURSDAY 17 OCTOBER

Chair: Attila Kardos & Harald Becher

9:00–10:15	Workstation analysis 11.	
10:15–11:30	Coffee break	
10:30–12:30	Workstation analysis 12.	
12:30–13:30	Lunch break	
13:30–13:50	Lecture 15. BSE – Stress echo accreditation criteria	Attila Kardos
13:50–14:55	Workstation analysis 13.	
14:55–15:10	Coffee break	
15:10–18:00	Workstation analysis 14.	
	Summary / Q & A session	

FRIDAY 18 OCTOBER

Chair: Attila Kardos & Harald Becher

9:00–10:15	Workstation analysis 15.
10:15–11:30	Coffee break
10:30–12:30	Workstation analysis 16.
12:30–13:30	Lunch break
13:30–14:50	Accreditation - Interpretation Exam (20 cases)
14:50–15:20	Coffee break (Feed back questionnaire)
15:20	**Certificates and Course closure**