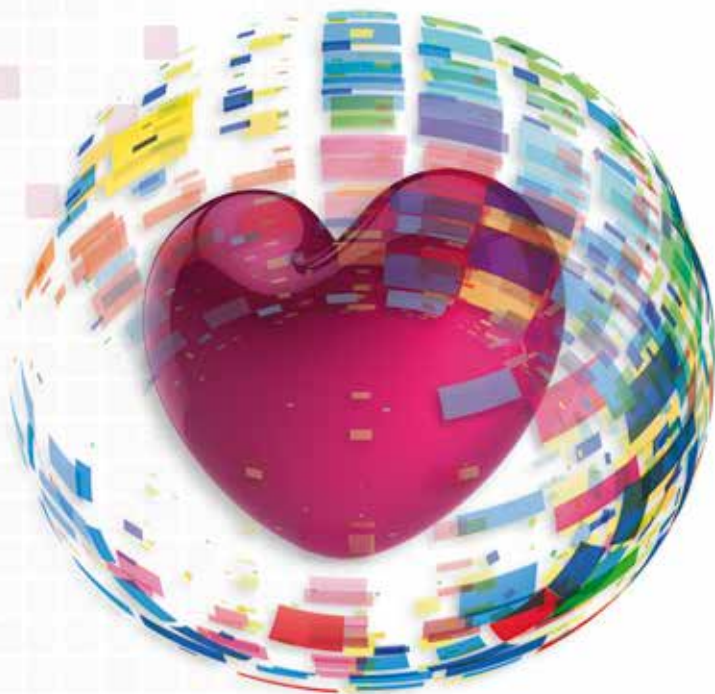


EuroEcho2013 Imaging

17th Annual Meeting of the European Association
of Cardiovascular Imaging, a registered branch
of the ESC, in cooperation with the Turkish
Working Group of Cardiac Imaging.



FINAL PROGRAMME

ISTANBUL

TURKEY 11-14 DECEMBER

www.escardio.org/eacvi



Congress Timetable

	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00
	07:30	08:30	09:30	10:30	11:30	12:30	13:30	14:30	15:30	16:30	17:30	18:30	
Wednesday 11 December				CLUB 35 POSTERS									
				POSTERS	MP		POSTERS		MP				
				EXHIBITION									
				TEACHING COURSES	HT	TEACHING COURSES	YIA BASIC SCIENCE CLINICAL		TEACHING COURSES	HT	INAUGURAL SESSION	NETWORKING RECEPTION	
							SATELLITE SYMPOSIA						
Thursday 12 December				CLUB 35 POSTERS									
				POSTERS	MP	POSTERS			POSTERS	MP	POSTERS		
				EXHIBITION									
				SCIENTIFIC SESSIONS		HT	SCIENTIFIC SESSIONS	SATELLITE SYMPOSIA	SCIENTIFIC SESSIONS	HT		SCIENTIFIC SESSIONS	
				Imaging Campus			Imaging Campus			Imaging Campus		Imaging Campus	
Friday 13 December				CLUB 35 POSTERS									
				POSTERS	MP	POSTERS			POSTERS	MP	POSTERS		
				EXHIBITION									
				SCIENTIFIC SESSIONS		HT	SCIENTIFIC SESSIONS	SATELLITE SYMPOSIA	SCIENTIFIC SESSIONS	HT		SCIENTIFIC SESSIONS	ECHO @ JEOPARDY
				Imaging Campus			Imaging Campus			Imaging Campus		Imaging Campus	
Saturday 14 December				POSTERS	MP	POSTERS							
				SCIENTIFIC SESSIONS		HT	SCIENTIFIC SESSIONS						
	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00

MP Moderated Posters HT How-to Sessions

Registration & Speaker Service Centre Opening Hours:

Tuesday 10 December: 14:00 - 18:00

Wednesday 11, Thursday 12 and Friday 13 December: 07:30 - 18:30

Saturday 14 December: Speaker Service Centre: 07:30 - 12:30 / Registration: 07:30 - 13:00

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The mobile application is supported by Edwards Lifesciences in the form of an unrestricted Educational Grant.





Welcome to the fascinating and historical city of Istanbul, hosting the official annual meeting of the European Association of Cardiovascular Imaging (EACVI).

The aim of EuroEcho-Imaging 2013 is to create an exciting forum for both clinicians and scientists to present and discuss the most up-to-date research and clinical findings on the broad spectrum of echocardiography and other cardiovascular imaging modalities. This year's spotlights are Heart Failure and Imaging in Interventional Cardiology.



The educational track on Echocardiography will run throughout the meeting with several teaching courses and specifically designed sessions. The participation of young cardiologists and researchers will be stimulated and supported through the organisation of two (clinical and basic) young investigator award sessions. In addition, the best original researches will be acknowledged through dedicated initiatives.

This congress is a unique opportunity for cardiologist interested in the clinical and interventional applications of cardiovascular imaging to come together and interact with leading imaging experts from all over the world. The meeting will focus on the clinical scenario with the objective to demonstrate how imaging modalities may affect clinical decision-making and outcome.

Thank you for being with us in Istanbul. Enjoy your time, learn something new, meet colleagues and friends. Istanbul 2013 will be a congress to remember!

Professor Patrizio Lancellotti
EACVI President 2012-2014





EACVI 2013 Executive Board Members



From Left to Right: Prof P. Lancellotti, Prof G. Habib, Prof L. Badano, Assoc Prof B.A. Popescu, Dr M. Galderisi, Prof G. Maurer

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Editor-in-Chief EHJ-Cl



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e-LIBRARY

All scientific content at your fingertips on the e-Library stations located in the **Poster Area**

- **Slides:** Every year, all slide presentations are available online 24 hours after presentation time.
- **Abstracts:** All selected abstracts and electronic posters are available for consultation.

All poster presenters can upload their poster on the e-Library at the Poster Assistance Desk

After the congress, the post congress content (slides, screencasts) will be available exclusively to EACVI members on www.euroecho.org

Not yet an EACVI member?

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VIDEO ON DEMAND (VOD) FROM

EuroEcho-Imaging 2013

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Pick up your free daily newspaper of the EuroEcho-Imaging 2013 Congress, share the exclusive scientific highlights of the day and read full scientific articles and useful information.

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CME ACCREDITATION



EuroEcho-Imaging 2013 is accredited by the European Board for Accreditation in Cardiology (EBAC) for **21 hours** of External CME credits.

EBAC works according to the quality of standards of the European Accreditation Council for Continuing Medical Education (EACCME), which is an institution of the European Union of Medical Specialists (UEMS). These credits can be transferred into North American AMA credits on the American Medical Association (AMA). More information on: www.ebac-cme.org

CERTIFICATES

For attendance - available from the registration desks as of Friday 13 December 2013.

For Presentations - available for abstract presenters at the **Poster Assistance Desk** in the Poster Area.

INDUSTRY PROGRAMME

Our Industry partners offer a rich educational programme to delegates throughout the congress. Discover the wide variety of activities from sponsored sessions to stand activities in the Industry Programme.

Important information:

Please note that by scanning your badge on any Exhibition stand or at the entrance of an Industry Sponsored session, you accept that the company may contact you, using your contact details as submitted to the European Society of Cardiology.





EuroEcho-Imaging 2013, the annual meeting of the European Association of Cardiovascular Imaging (EACVI), has doubled in size and impact over the last few years to become one of the largest and most important scientific meetings on non-invasive cardiovascular diagnosis anywhere in the world.

2013 MAIN THEMES

• Heart Failure • Imaging in Interventional Cardiology •

A complete and extensive programme developed to address the key topics related to our daily practice requirements. More practical clinical sessions as well as a complete educational curriculum will be presented.

DON'T MISS OUR MOST POPULAR SESSIONS!

Wednesday Teaching Courses

Wednesday 11 December - all rooms

Subsequent educational sessions to explore a topic in-depth. These sessions are dedicated to courses in the related fields of Echocardiography and other Imaging Modalities and are organised in close collaboration with sister organisations.

How-to sessions



Everyday during the morning & afternoon coffee breaks, room MANISA

Provide practical details and tools or tips and tricks on a specific topic related to the research. These sessions are built to help attendees to improve their experiences to complete successfully research project: from founding and grant application, to data analysis, results presentation and publication. The How-to session are recommended to the EACVI Club 35 members.

Inaugural session with the Edler lecture

Wednesday 11 December, 16:00 - 17:30, room ANKARA

Professor Luc A. Piérard, Head of the Department of Cardiology at the Liège University Hospital Sart Tilman, will present the 24th Annual EuroEcho-Imaging Scientific Sessions Edler Lecture: "Dynamic Imaging".

IMAGING CAMPUS: NEW Free access to the Imaging Campus sessions!

Thursday 12 & Friday 13 December



Designed to offer delegates a unique opportunity for practical training and/ or hands-on learning experience in key areas of non invasive

imaging with specific objectives and credit approval.

The Best in 2013: Heart Failure and Imaging In Interventional Cardiology



Friday 13 December, 11:00 - 12:30, room IZMIR

A session coordinated by EACVI young researchers who will present their extensive reviews on what has been presented in 2013 on Imaging in Interventional Cardiology.

THE BEST OUTSIDE EUROPE

Friday 13 December, 16:30 - 18:00, room VAN

Presentations given by Sister Societies Presidents and featuring the EuroEcho-Imaging Honorary lecture – the essence of our larger community.

ECHO at JEOPARDY

Friday 13 December, 18:00 - 19:00, room ANKARA



Are you familiar with the JEOPARDY Game? We are turning this popular game into an Echocardiography Challenge for our

distinguished faculty members. A series of cases will be presented under specific categories.

Cardiac imaging: First ever showing cases!

Saturday 14 December, 08:30 - 10:00, room IZMIR

Highlight Session

EuroEcho-Imaging 2013 in a nutshell !

Saturday 14 December, 11:00 - 12:30, room ANKARA

Live surgery: Intraoperative echocardiography in mitral valve repair

Saturday 14 December, 11:00 - 12:30, room VAN



Imaging Campus 2013

THURSDAY	IMAGING CAMPUS 1	IMAGING CAMPUS 2	IMAGING CAMPUS 3	IMAGING CAMPUS 4	IMAGING CAMPUS 5
Organised by	Abbott Vascular and Philips Healthcare	GE Healthcare	EACVI Club 35	Siemens AG Healthcare Sector	EACVI
09:00 10:30	Deep dive in understanding the Echo guidance for Percutaneous Mitral Valve Repair patients screening and procedure	4D Echocardiography - Navigation and views of cases with respect to the anatomy of the heart	Club 35 Workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners	Benefits of advanced echo imaging technologies Case based learning session	3D Echo & cardiac anatomy
11:00 12:30	Deep dive in understanding the Echo guidance for Percutaneous Mitral Valve Repair patients screening and procedure	Comprehensive Analysis of Left Ventricular Geometry and Function (2D and 4D Strain) by 4D Echocardiography	Club 35 Workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners	Benefits of advanced echo imaging technologies Case based learning session	3D Echo & cardiac anatomy
14:00 15:30	Deep dive in understanding the Echo guidance for Percutaneous Mitral Valve Repair patients screening and procedure	4D TEE in the CathLab and in the Operating Room - Clinical Application of 4D TEE for Percutaneous Structural Heart Interventions	Club 35 Workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners	Benefits of advanced echo imaging technologies Case based learning session	3D Echo & cardiac anatomy
16:00 17:30	Deep dive in understanding the Echo guidance for Percutaneous Mitral Valve Repair patients screening and procedure	Imaging myocardial mechanics - Clinical applications of 2D Strain imaging, left ventricular rotation and torsion assessment	Club 35 Workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners	Benefits of advanced echo imaging technologies Case based learning session	3D Echo & cardiac anatomy

FRIDAY	IMAGING CAMPUS 1	IMAGING CAMPUS 2	IMAGING CAMPUS 3
Organised by	Abbott Vascular and Philips Healthcare	GE Healthcare	EACVI Club 35
09:00 10:30	Deep dive in understanding the Echo guidance for Percutaneous Mitral Valve Repair patients screening and procedure	Imaging myocardial mechanics - Clinical use of speckle tracking 2D strain, automated function imaging (AFI) and multilayer 2D strain	Club 35 Workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners
11:00 12:30	Deep dive in understanding the Echo guidance for Percutaneous Mitral Valve Repair patients screening and procedure	4D TEE in the CathLab and in the operating room Clinical application of 4D TEE for percutaneous structural heart interventions	Club 35 Workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners
14:00 15:30	Deep dive in understanding the Echo guidance for Percutaneous Mitral Valve Repair patients screening and procedure	Imaging myocardial mechanics Clinical applications of 2D strain imaging, left ventricular rotation and torsion assessment	Club 35 Workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners
16:00 17:30	Deep dive in understanding the Echo guidance for Percutaneous Mitral Valve Repair patients screening and procedure	Imaging myocardial mechanics - Clinical use of speckle tracking 2D strain, automated function imaging (AFI) and multilayer 2D strain	Club 35 Workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners

**NEW THIS YEAR,
FREE ACCESS
TO ALL
PARTICIPANTS!**





WEDNESDAY 11 DECEMBER 2013

09:00 - 15:30 TEACHING COURSES

Course on new frontiers in cardiac mechanics

ANKARA

- From cardiac physiology to imaging 09:00 - 10:30
- Impact of loading conditions on cardiac mechanics 11:00 - 12:30
- Impact of ischaemia and geometry on cardiac mechanics 14:00 - 15:30

Course on three-dimensional echocardiography: ready for the prime time

ISTANBUL

- Added value in assessing chamber geometry and function 09:00 - 10:30
- A new way of looking at heart valves 11:00 - 12:30
- Three-dimensional echo to guide interventional procedures 14:00 - 15:30

Course on Stress echo beyond coronary artery disease

IZMIR

Joint session with the American Society of Echocardiography

- Physiology of stress echocardiography 09:00 - 10:30
- Stress echocardiography in non-ischaemic heart disease 11:00 - 12:30
- Stress echocardiography in valvular heart disease 14:00 - 15:30

Course on congenital heart disease

VAN

Joint session with the ESC Working Group on Grown-up Congenital Heart Disease (GUCH) and the Association for European Paediatric and Congenital Cardiology (AEPC)

- Atrioventricular septal defect 09:00 - 10:30
- Tetralogy of Fallot 11:00 - 12:30
- Functionally single ventricle 14:00 - 15:30

Course on advanced cardiac imaging in routine clinical practice: added value of computed tomography, magnetic resonance imaging and nuclear imaging

KONYA

- The complementary role of cardiac computed tomography 09:00 - 10:30
- The complementary role of cardiovascular magnetic resonance 11:00 - 12:30
- Cardiac magnetic resonance and computed tomography for ischaemic heart disease 14:00 - 15:30

09:00 - 15:30 TEACHING COURSES

Course on the role of imaging in acute cardiac care

BURSA

Joint session with the European Association of Cardiothoracic

Anaesthesiologists (EACTA)

- Imaging modalities in the emergency room 09:00 - 10:30
- Cardiac imaging in the intensive-care unit (ICU) 11:00 - 12:30
- Advanced applications of perioperative transoesophageal echocardiography 14:00 - 15:30

Course on valvular heart disease in the era of new interventions. Joint session with the Turkish Cardiac Imaging Working Group

MANISA

- Mitral valve 09:00 - 10:30
- Aortic valve 11:00 - 12:30
- Prosthetic valves 14:00 - 15:30

09:30 - 16:00

Club 35 Moderated Poster Session - Moderated Posters - Poster Session

10:30 - 11:00

- How to make a scientific poster How-to Session MANISA

12:45 - 13:45

- The art of optimal patient selection for percutaneous mitral valve repair ISTANBUL

Satellite Symposium organised by Abbott Vascular

- Young Investigator Award session - Clinical BURSA
- Young Investigator Award session - Basic Science MANISA

15:30 - 16:00

- How to give a successful presentation MANISA

16:00 - 17:30

INAUGURAL SESSION

ANKARA

17:30

Networking reception in the Exhibition Area

THURSDAY 12 DECEMBER 2013

08:30 - 10:00

- Image-based treatment planning and evaluation of percutaneous valve intervention ANKARA
- Innovation in atrial fibrillation therapy ISTANBUL
- Controversies in aortic stenosis IZMIR
- Newer methods in stress echocardiography VAN
- Transposition of the great arteries KONYA
- The importance of cardiac imaging in systemic diseases BURSA
- Basics of cardiac ultrasound MANISA

10:00 - 11:00

Coffee Break - Club35 Poster Session - Moderated Posters - Poster Session

10:15 - 10:45

- How to interpret statistics MANISA

11:00 - 12:30

- Myocardial fibrosis and cardiac dysfunction: the added value of imaging ANKARA
- Aortic stenosis ISTANBUL
- Controversies in imaging ischaemic heart disease IZMIR
- Infectious and inflammatory disease: multi-imaging VAN
- Imaging of carotid disease KONYA

11:00 - 12:30

- The right heart ischaemic disease BURSA
- Basics of cardiac assessment MANISA

12:45 - 13:45

- Can anatomical intelligence change the way echo studies are done and how should imaging approach to TAVI patients look like? Satellite Symposium organised by Philips Healthcare ISTANBUL

- 2D and 3D speckle tracking and fusion. Where are we and where do we go? IZMIR

Satellite Symposium organised by Toshiba Medical Systems

14:00 - 15:30

- New insights of cardiac imaging in acute chest pain ANKARA
- Atherosclerosis ISTANBUL
- The next challenge in guiding intervention: 3D echo and image fusion IZMIR
- Assessment of left atrial size and function: role of advanced imaging VAN
- Pitfalls and limitations of the evaluation of prosthetic valve KONYA
- Non invasive evaluation of coronary artery disease BURSA
- Cardiomyopathies and pericardial diseases MANISA



Programme at a Glance

THURSDAY 12 DECEMBER 2013 - CONTINUED

15:30 - 16:30

Coffee Break - Club35 Poster Session - Moderated Posters - Poster Session

15:45 - 16:15

How to perform basic statistics

MANISA

16:30 - 18:00

Modern technics to assess left ventricular systolic function

ANKARA

Infective endocarditis

ISTANBUL

16:30 - 18:00

Imaging in intervention for structural heart disease

IZMIR

The heart in systemic diseases: what does the echocardiographer need to know?

VAN

Obesity: the good, the bad and the ugly

KONYA

Role of imaging to predict left ventricular remodeling after acute myocardial infarction

BURSA

Valve diseases I

MANISA

FRIDAY 13 DECEMBER 2013

08:30 - 10:00

Improving patient outcomes in cardiac resynchronization therapy

ANKARA

Pulmonary hypertension

ISTANBUL

3D echo in clinical practice: better than 2D?

IZMIR

Cardio-oncology: the new kid in town

VAN

The need for strain standardisation: where do we stand What next?

KONYA

Imaging in structural interventions

BURSA

Valve diseases II

MANISA

10:00 - 11:00

Coffee Break - Club35 Poster Session - Moderated Posters - Poster Session

10:15 - 10:45

EACVI GENERAL ASSEMBLY

ISTANBUL

10:15 - 10:45

How to design and write a scientific research project

MANISA

11:00 - 12:30

New insights in mitral regurgitation pathophysiology from imaging: implications for surgery and intervention

ANKARA

Hypertrophic cardiomyopathy

ISTANBUL

The Best in 2013: heart failure and imaging in interventional cardiology

IZMIR

3D strain: welcome addition or another distraction?

VAN

New perspective: when the blood flow becomes bright

KONYA

Congenital heart diseases

BURSA

Diseases of the aorta

MANISA

12:45 - 13:45

Imaging vulnerable plaque: from bench to bedside

ISTANBUL

Satellite Symposium organised by SERVIER

12:45 - 13:45

Contrast echocardiography in CAD: understanding physiology and function

VAN

Satellite Symposium organised by Bracco

14:00 - 15:30

Assessment of acute heart failure: which imaging modalities?

ANKARA

Thoracic aorta diseases

ISTANBUL

Heart failure with preserved ejection fraction - key role of imaging

IZMIR

Tricuspid regurgitation: pathophysiology and management

VAN

Echocardiography in refractory heart failure: mechanical circulatory support and heart transplantation

KONYA

2D strain in aortic stenosis: clinical impact

BURSA

Advanced echo technique I: 3D echo

MANISA

15:30 - 16:30

Coffee Break - Club35 Poster Session - Moderated Posters - Poster Session

15:45 - 16:15

How to avoid pitfalls in original scientific papers

MANISA

16:30 - 18:00

Paravalvular aortic regurgitation after TAVI

ANKARA

Ischaemic heart disease

ISTANBUL

Multiple valve disease in daily life

IZMIR

The Best Outside Europe

VAN

New techniques in congenital heart disease

KONYA

New insights in heart muscle diseases

BURSA

Advanced echo techniques II: cardiac mechanic

MANISA

18:00 - 19:00

Echo@Jeopardy

ANKARA

SATURDAY 14 DECEMBER 2013

08:30 - 10:00

Diastole in clinical practice

ANKARA

Bicuspid aortic valve

ISTANBUL

Cardiac imaging: first ever showing cases!

IZMIR

Advanced echo techniques III: miscellaneous

VAN

10:00 - 11:00

Coffee Break - Moderated Posters - Poster Session

11:00 - 12:30

How to use e-learning in cardiac imaging

MANISA

EuroEcho-Imaging Highlights

ANKARA

Rotation, twisting and torsion: what does it mean and what can we learn from it?

ISTANBUL

Right ventricular anatomy and function by cardiac imaging and clinical implications

IZMIR

Live surgery: intraoperative echocardiography in mitral valve repair

VAN

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SYMPOSIUM

DEBATE / CLINICAL SEMINAR

ORAL ABSTRACT SESSION

SPECIAL SESSION

TEACHING COURSE

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Satellite Symposium organised by Toshiba Medical Systems	



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SPECIAL SESSION

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• The next challenge in guiding intervention: 3D echo and image fusion.....	54
• Transposition of the great arteries.....	46
• Tricuspid regurgitation: pathophysiology and management.....	104



ANNUAL MEETING OF

EUROPEAN ASSOCIATION OF CARDIOVASCULAR IMAGING (EACVI)

A Registered Branch of the ESC

ESC Specialty Centre
2035 Route des Colles - Les Templiers
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VENUE

Istanbul Lutfi Kırdar
Convention & Exhibition Centre (ICEC)

Harbiye-Sisli
34267 Istanbul
Turkey



Tel: (+90 212) 373 11 00 - Fax: (+90 212) 224 08 78

Web Site: www.icec.org

EuroEcho-Imaging Congress is only accessible to certified healthcare professionals in the science, management and prevention of cardiovascular disease.

LANGUAGE

The official language during the congress is English. No translation is available.

EUROPEAN ASSOCIATION OF CARDIOVASCULAR IMAGING (EACVI)

MEMBERSHIP PROGRAMME

JOIN

With over 3 000 members, the EACVI is a dynamic and vibrant community of international cardiovascular imaging experts and a valuable source of knowledge and best practice.

YOU ARE INTERESTED IN:

- Echocardiography
- Cardiac Magnetic Resonance
- Cardiac Computed Tomography and Nuclear Cardiology

WE OFFER YOU:

- Full access to the online educational platform
- Annual subscription to the Journal*
- Reduced fees for congress and certification exams*
- VIP treatment during EuroEcho-Imaging congress
- Discount on educational products*
- Voting rights during Board elections*
- ESC membership*
- Quarterly e-newsletter
- And a lot more



Register during EuroEcho-Imaging 2013
on the ESC-EACVI stand B30

SPECIAL OFFER** during the congress for 25€
Become a 2014 member!

*for full membership

**Available from 11 December 2013 to 31 March 2014

www.escardio.org/EACVI



Who are we?



EACVI
EUROPEAN ASSOCIATION OF
CARDIOVASCULAR
IMAGING
A Registered Branch of the ESC

Since its creation in 2003, the ESC Association on Imaging, namely the European Association of Cardiovascular Imaging (EACVI), has become the leading network in Europe.

EACVI is committed to maintaining high standards of professional excellence by providing innovative and qualitative tools for continuous medical education.

2013 is a major milestone for your association. While celebrating the 10th anniversary of the association, a new era is starting this year as EACVI is evolving towards a unified structure welcoming Echocardiography, Cardiovascular Magnetic Resonance and Nuclear Cardiology & Cardiac Computed Tomography.

What will change?

First, the association will be moved from a technology based to a patient centric approach. An integrated approach to imaging is a natural next step - it's already happening in hospitals and clinics across Europe and having a direct impact on preventive screening and patient care.

Secondly, we want a stronger imaging body within the ESC able to design rationale diagnostic pathways in which the different imaging modalities do not compete one against the other but will be integrated in a cost-effective strategy for the sake of patient health and economical sustainability.

"To promote excellence in clinical diagnosis, research, technical development, and education in cardiovascular ultrasound and other imaging modalities in Europe"

2013 EACVI mission



WHY SHOULD YOU join the EACVI?

With over 3 000 members, the EACVI is a dynamic and vibrant community of international cardiovascular imaging experts and a valuable source of knowledge and best practice.

Come and meet us at the ESC-EACVI Stand B30 (Exhibition Area) to join the EACVI or renew your membership for 2014. You will immediately benefit from advantages during EuroEcho-Imaging 2013:

- Discount on EACVI educational products at the shop
- Exclusive Members Lounge access



SPECIAL OFFER !

Become a member for only 25 Euros*

Come to our stand and ask for our special offer

* offer exclusive for delegates of EuroEcho-Imaging 2013, offer valid from 11/12/13 to 31/03/14

And benefit throughout the year on:

- **Exclusive access** to online educational & scientific resources
- Annual subscription to the European Heart Journal-Cardiovascular Imaging
- **Reduced fee** & VIP treatment for EuroEcho-Imaging congress
- **Discounts** on educational products and courses
- A **dedicated member's area** on our website
- Automatic ESC membership

JOIN US,
share your expertise
and become a
DRIVING FORCE
in our association!

AVAILABLE ON THE STAND

EACVI Educational products

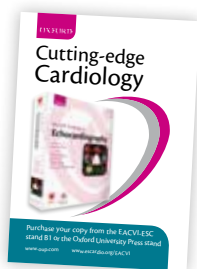
Scientific & Illustrated Posters

- Diastolic function • 3D Echo • Valve Stenosis



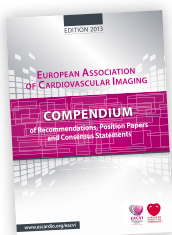
Textbook

- Echocardiography



Abridged recommendations

- Regurgitation Aortic & Pulmonary
- Regurgitation Mitral & Transcuspoid
- Infective Endocarditis
- Transcatheter Interventions
- Diastolic Function
- Radiotherapy



Compendium

- Complete EACVI recommendations



SPECIAL

10 YEARS 10% DISCOUNT*

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*for purchases over 100 €



WHAT ACTIVITIES are waiting for you?

- **Visit the stand B30, meet the team and learn more about**

- Membership
- Laboratory accreditation and Certification
- Educational and Scientific opportunities
- European Heart Journal – Cardiovascular Imaging
- Congresses and courses
- Young doctors initiatives (EACVI Club 35)
- International Networking
- Products at the shop
- And much more!

- **Have a break in the Members Lounge**

Meet with colleagues, read emails or simply enjoy a cup of coffee in your exclusive area providing all EACVI members with a pleasant and cosy environment!

Lounge located on Mezzanine level.

Opening hours:

- Wednesday 11 December: 9:00-19:00
- Thursday 12 December: 8:00-18:00
- Friday 13 December: 8:00-18:00

- **Certification exams**

Get formal European recognition of your practical experience and knowledge!

Three exams are organised in Istanbul:

- **Adult Transesophageal Echocardiography (TEE)**
- **Adult Transthoracic Echocardiography (TTE)**
- **Congenital Heart Disease Echocardiography (CHD)**

Visit the stand to learn more about next exam sessions.

DON'T MISS our special events!

- **Inaugural Session**

Wednesday 11 December from 16:00 to 17:30, room ANKARA, followed by a cocktail reception in the **Exhibition Area**. Let's open the EuroEcho-Imaging congress and celebrate the 10th anniversary of the association together!

- **General Assembly**

Join the EACVI General Assembly scheduled on Friday 13 December from 10:00 to 11:00, room ISTANBUL, led by **Prof. Patrizio Lancellotti**, EACVI President 2012-2014.

Get the latest update on EACVI and make your voice heard by voting* on the EACVI resolution.

All EuroEcho-Imaging 2013 delegates are invited to join.

*Only 2013 members have the right to vote.

- **EACVI Club 35 cocktail**

All EACVI Club 35 members are invited to meet and exchange during the EACVI Club 35 cocktail that will be held on Friday 13 December from 19:00 to 20:00 in the **EACVI Members Lounge**.

- **Happy Birthday EACVI!**

Let's celebrate together the EACVI 10th anniversary throughout the congress!



For further information, visit
www.escardio.org/EACVI

EDUCATION

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The EACVI offers a wide range of
innovative and high quality training opportunities
to facilitate continued medical education
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- WikiEcho ●
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- Webinars ●
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- Slides from Congresses
- Interactive Books
- Key Reference Library
- How-to tutorials
- and much more!

International Relations

The EACVI is the central voice for Cardiovascular Imaging in the European community and plays a leadership role in the CVI world. Creating and maintaining strong links with the European Working Groups and Sister Societies is essential for sharing and implementing the latest research and technical developments, as well as harmonising the standards of excellence.

An intensive International network:

53 European Working Groups

of non invasive Cardiovascular Imaging

10 Sister Societies

in North and South America, Asia and the Middle East

A group of dynamic young experts

39 EACVI Club 35 Ambassadors

to represent their national young community

THE EACVI CLUB AFFILIATED

A programme designed for experts in affiliated countries

The EACVI launches membership programme designed for Cardiovascular Imaging experts based outside Europe with adapted educational services.

Discover your benefits and join now!

AREAS OF COLLABORATION

- Education
- Enlarge the community
- Translation of scientific documents
- Research
- Co-organised teaching courses with the European Working Groups
- World Echo Summit
- EACVI Summit
- International Echo area at EuroEcho-Imaging congress
- Lab accreditation

EACVI

DEDICATED SESSIONS for the young community!



- **How to sessions:** Sessions where experts share their tips on practical topics for young doctors such as “how to write an abstract”, “how to design a research project” etc Daily during coffee breaks in room **MANISA**
- **The Best in 2013:** Heart failure and imaging in interventional cardiology session Friday 13 December, 11:00-12:30, in room **IZMIR**
- **Imaging Campus sessions** on Transoesophageal Echocardiography (TEE) for beginning practitioners Thursday 12 & Friday 13 December, 9:00-10:30, 11:00-12:30, 14:00-15:30 and 16:00-17:30, in Imaging Campus 6
- **Joint session** between the EACVI Club 35 and the ESC Cardiologists of Tomorrow on “The heart in systemic diseases: what does the echocardiographer need to know?” Thursday 12 December, 16:30-18:00, in room **VAN**
- **Moderated Poster Area: NEW!** Following the huge number of abstracts received this year, the Scientific committee has designed for the first time a Moderated Poster session to give maximum exposure to the young community! Wednesday 11 December, 10:30-11:00

Don't miss!

- **Dedicated Poster Area: NEW!** This year, the young community benefits from a full day poster display and will have the honor to be visited during lunch breaks by senior faculty and members! All day from Wednesday 11 to Friday 13 December
- **Echo@jeopardy: NEW!** This year an EACVI Club 35 member will be represented in each team during this fun and educational session Friday 13 December, 18:00-19:00, in room **VAN**
- **Club 35 Cocktail:** Join us after the **Echo@jeopardy** to meet & network with your peers! Friday 13 December, 19:00-20:00, in the **EACVI Members Lounge**
- **Club 35 Pins:** Visit the ESC-EACVI stand B30 and pick up your pin to be identified as part of the young community

Social medias

Follow us on Twitter and tweet **#euroecho**

Join us on LinkedIn: **Young Network of Cardiovascular Imaging** and post your comments

Join the EACVI young community



THE **EACVI**
YOUNG COMMUNITY

*The European programme for young
experts in cardiovascular imaging*

Developed by the European Association of Cardiovascular Imaging (EACVI) to accompany its younger members in the early stages of their career, the EACVI Club 35 offers:

- Educational and scientific resources
- Specific sessions at congresses
- Special EACVI membership programme
- Research Opportunities
- Online access to the Journal
- Reduced registration fees
- Networking
- And a lot more

www.escardio.org/EACVI



Celebrate a decade of
leadership & innovation
from **EACVI**
at EuroEcho-Imaging



- **PROMOTING** the vital role of cardiovascular imaging
- **RAISING** standards of quality across Europe
- **EVOLVING** towards a multi-modality approach
- **ENSURING** technical advancement responds to the best patient care
- **CREATING** innovative educational tools
- **GROWING** EuroEcho-Imaging congress
- **DRIVING** our young community
- **REPRESENTING** you on the international stage
- **PUBLISHING** a pivotal journal and research
- **MANAGING** excellence and a robust certification

www.escardio.org/EACVI



All the Wednesday Teaching Courses are recommended by the Club 35 to the young community.



Course on new frontiers in cardiac mechanics

ANKARA

09:00 - 10:30

From cardiac physiology to imaging

Chairpersons: B. Bijnens (Barcelona, ES); G.A. Derumeaux (Bron, FR)

- | | | |
|-------|---|---|
| 09:00 | Physiology of left ventricular contraction. | 1 |
| | T.C. Gillebert (Ghent, BE) | |
| 09:22 | Imaging left ventricular function. | 2 |
| | T. Edvardsen (Oslo, NO) | |
| 09:45 | Physiology and imaging of right ventricular contraction. | 3 |
| | J.U. Voigt (Leuven, BE) | |
| 10:07 | Physiology and imaging of left ventricular diastole. | 4 |
| | T.C. Gillebert (Ghent, BE) | |

11:00 - 12:30

Impact of loading conditions on cardiac mechanics

Chairpersons: F.E. Rademakers (Leuven, BE); K. Yoshida (Kurashiki, JP)

- | | | |
|-------|--|----|
| 11:00 | Left heart function in case of pressure overload. | 33 |
| | P. Gutierrez-Fajardo (Guadalajara, MX) | |
| 11:22 | Left heart function in mitral regurgitation. | 34 |
| | E. Donal (Rennes, FR) | |
| 11:45 | Right heart function in pulmonary hypertension. | 35 |
| | E. Valsangiacomo Buechel (Zurich, CH) | |
| 12:07 | Right ventricular/left ventricular interaction: how does it affect function and measurements? | 36 |
| | J.K. Oh (Rochester, US) | |

14:00 - 15:30

Impact of ischaemia and geometry on cardiac mechanics

Chairpersons: T.C. Gillebert (Ghent, BE); A.G. Fraser (Cardiff, GB)

- | | | |
|-------|--|----|
| 14:00 | Impact of ischaemia. | 77 |
| | B. Bijnens (Barcelona, ES) | |
| 14:22 | Mechanical dyssynchrony. | 78 |
| | P. Sogaard (Aalborg, DK) | |
| 14:45 | Heart failure with preserved ejection fraction. | 79 |
| | Z. Vered (Zerifin, IL) | |
| 15:07 | Pericardial disease: what does it change. | 80 |
| | A. Klein (Cleveland, US) | |

Course on Three-dimensional echocardiography: ready for the prime time

ISTANBUL

09:30 - 10:30

Added value in assessing chamber geometry and function

Chairpersons: T.H. Marwick (Hobart, AU); L. Badano (Padua, IT)

09:00	The new gold standard in assessing the left ventricle.	5
	I. Ikonomidis (Athens, GR)	
09:22	The right ventricle: volumes and ejection fraction.	6
	L. Sugeng (New Haven, US)	
09:45	The left atrium: size and function.	7
	D. Muraru (Padua, IT)	
10:07	The right atrium: the new comer.	8
	F.J. Ten Cate (Rotterdam, NL)	

11:00 - 12:30

A new way of looking at heart valves

Chairpersons: G. Athanassopoulos (Pireas, GR); B. Cosyns (Braine L'alleud, BE)

11:00	The mitral valve.	37
	G. La Canna (Rodengo Saiano, IT)	
11:22	The aortic valve.	38
	J.-L. Vanoverschelde (Brussels, BE)	
11:45	The tricuspid valve.	39
	L. Badano (Padua, IT)	
12:07	Mitral-aortic coupling.	40
	M. Vannan (Columbus, US)	

12.45 – 13.45 Satellite Symposium Sponsored by Abbott Vascular

14:00 - 15:30

Three-dimensional echo to guide interventional procedures

Chairpersons: P. Nihoyannopoulos (London, GB);

M.J. Monaghan (London, GB)

14:00	TAVI.	81
	M.J. Monaghan (London, GB)	
14:22	Percutaneous mitral valve interventions.	82
	E. Brochet (Paris, FR)	
14:45	Electrophysiological procedures and left atrial appendage closure.	83
	G. Van Camp (Brussels, BE)	
15:07	Fusion imaging to guide procedures.	84
	R.M. Lang (Chicago, US)	

12:45 - 13:45 Satellite Symposium

ISTANBUL

The art of optimal patient selection for percutaneous mitral valve repair

Sponsored by Abbott Vascular

Chairpersons: R.S. Von Bardeleben (Mainz, DE); V. Delgado (Leiden, NL)

12:45	Introduction. V. Delgado (Leiden, NL)	63
12:50	Lessons learned from 11000 patients treated. R.S. Von Bardeleben (Mainz, DE)	64
13:05	Identify the suitable patient with TTE. N. Wunderlich (Frankfurt, DE)	65
13:20	Is screening with TEE essential? M.J. Swaans (Nieuwegein, NL)	66
13:30	Select the optimal patient P. Biaggi (Zurich, CH)	67
13:40	Questions & answers.	

Course on Stress echo beyond coronary artery disease. Joint session with the American Society of Echocardiography

IZMIR



09:30 - 10:30

Physiology of stress echocardiography

Chairpersons: P. Pellikka (Rochester, US); P. Lancellotti (Liège, BE)

09:00	Adaptation of left ventricular to exercise.	9
	S. Lafitte (Pessac, FR)	
09:22	Cardiac physiological changes under pharmacological stress.	10
	C Aggeli (Athens, GR)	
09:45	Diastolic stress echocardiography.	11
	P. Pellikka (Rochester, US)	
10:07	Right ventricular adaptation to stress testing.	12
	G. Claessen (Brasschaat, BE)	

11:00 - 12:30

Stress echocardiography in non-ischaemic heart disease

Chairpersons: S. Nagueh (Houston, US); A. Varga (Szeged, HU)

11:00	Dilated cardiomyopathy: what to look for?	41
	L. Gargani (Pisa, IT)	
11:22	Stress echocardiography in hypertrophic cardiomyopathy.	42
	T.H. Marwick (Hobart, AU)	
11:45	Right ventricular function and pulmonary vascular function in non-ischaemic heart disease.	43
	D. Voilliot (Nancy, FR)	
12:07	Stress echocardiography in heart failure to guide treatment.	44
	L.A. Piérard (Liège, BE)	

14:00 - 15:30

Stress echocardiography in valvular heart disease

Chairpersons: E. Picano (Pisa, IT); P. Pellikka (Rochester, US)

14:00	Asymptomatic aortic stenosis.	85
	P. Reant (Bordeaux-Pessac, FR)	
14:22	Low flow – low gradient aortic stenosis.	86
	P. Pibarot (Quebec, CA)	
14:45	Primary mitral regurgitation.	87
	J. Magne (Liège, BE)	
15:07	Secondary mitral regurgitation.	88
	H. Mueller (Geneva, CH)	

Course on congenital heart disease

Joint session with the ESC Working Group on Grown-up Congenital Heart Disease (GUCH) and the Association for European Paediatric and Congenital Cardiology (AEPC)

VAN



09:00 - 10:30

Atrioventricular septal defect

Chairpersons: J. Marek (London, GB); W. Budts (Leuven, BE)

09:00	Anatomical aspects.	13
	M.R.M. Jongbloed (Abcoude, NL)	
09:22	Preoperative assessment.	14
	K. Pushparajah (London, GB)	
09:45	Postoperative follow up	15
	C. Zito (Messina, IT)	
10:07	Role of advanced imaging.	16
	L. Mertens (Toronto, CA)	

10:00 - 12:30

Tetralogy of Fallot

Chairpersons: J.G. Eichhorn (Heidelberg, DE); W. Budts (Leuven, BE)

11:00	Anatomy and natural history.	45
	A.D.Andrea (Naples, IT)	
11:22	Preoperative assessment.	46
	A. Dragulescu (Toronto, CA)	
11:45	Postoperative follow up.	47
	C.J. McMahon (Dublin, IE)	
12:07	Ventricular interaction and remodelling.	48
	W.A. Helbing (Rotterdam, NL)	

14:00 - 15:30

Functionally single ventricle

Chairpersons: W.A. Helbing (Rotterdam, NL); F.J. Meijboom (Utrecht, NL)

14:00	Morphological determinants.	89
	M.R.M. Jongbloed (Abcoude, NL)	
14:22	Segmental approach to diagnosis.	90
	X. Iriart (Pessac, FR)	
14:45	Understanding Fontan circulation.	91
	L. Sondergaard (Copenhagen, DK)	
15:07	Imaging post staged operation.	92
	S. Orwat (Muenster, DE)	

Course on advanced cardiac imaging in routine clinical practice: added value of computed tomography, magnetic resonance imaging and nuclear imaging

KONYA

09:00 - 10:30 The complementary role of cardiac computed tomography
Chairpersons: K. Nieman (Rotterdam, NL); R.P.J. Budde (Utrecht, NL)

09:00	Cardiac computed tomography principles – what makes it different from echo?	17
	K. Nieman (Rotterdam, NL)	
09:18	What is new in cardiac computed tomography? – an update on technology and protocols.	18
	P. Maurovich-Horvat (Budapest, HU)	
09:36	Congenital heart disease – when X-rays are invaluable.	19
	K. Nieman (Rotterdam, NL)	
09:54	Native and prosthetic valvular heart disease.	20
	R.P.J. Budde (Utrecht, NL)	
10:12	Computed tomography guidance to percutaneous cardiac procedures.	21
	V. Delgado (Leiden, NL)	

11:00 - 12:30 The complementary role of cardiovascular magnetic resonance
Chairpersons: S. Plein (Leeds, GB); S.E. Petersen (London, GB)

11:00	Cardiovascular magnetic resonance - the principles.	49
	S. Plein (Leeds, GB)	
11:18	Basic applications of cardiovascular magnetic resonance and how they differ from echo.	50
	A.M.G. Almeida (Lisbon, PT)	
11:36	What does cardiovascular magnetic resonance add to the echocardiographic assessment of heart failure?	51
	T.D. Karamitsos (Oxford, GB)	
11:54	Added value of cardiovascular magnetic resonance in cardiomyopathy.	52
	F. Alpendurada (London, GB)	
12:12	Cardiovascular magnetic resonance in congenital heart disease.	53
	V. Muthurangu (London, GB)	

14:00 - 15:30

Cardiac magnetic resonance and computed tomography for ischaemic heart disease

Chairpersons: C. Bucciarelli-Ducci (Bristol, GB); T.D. Karamitsos (Oxford, GB)

- | | | |
|-------|---|-----------|
| 14:00 | Suspected coronary disease: calcium, stenoses and ischaemia detection by computed tomography. | 93 |
| | S. Schroeder (Goeppingen, DE) | |
| 14:18 | Cardiac magnetic resonance in stable coronary artery disease. | 94 |
| | S.E. Petersen (London, GB) | |
| 14:36 | The time and place of cardiac computed tomography in the triage of suspected acute coronary syndromes. | 95 |
| | A. Dedic (Rotterdam, NL) | |
| 14:54 | Cardiovascular magnetic resonance in acute coronary syndromes. | 96 |
| | C. Bucciarelli-Ducci (Bristol, GB) | |
| 15:12 | The value of positron emission tomography imaging in ischaemic heart disease. | 97 |
| | D. Neglia (Pisa, IT) | |

**Course on the role of imaging in acute cardiac care.
Joint session with the European Association of Cardiothoracic
Anaesthesiologists (EACTA)**

BURSA



09:00 - 10:30

Imaging modalities in the emergency room

Chairpersons: M.J. Swaans (Nieuwegein, NL); P.F. Wouters (Ghent, BE)

09:00	Imaging acute coronary syndromes using computed tomography/Magnetic resonance imaging.	22
	S. Plein (Leeds, GB)	
09:15	Imaging acute coronary syndromes using nuclear imaging.	23
	A.N. Kitsiou (Athens, GR)	
09:30	Chest trauma : state-of-the-art approach.	24
	A.A. Pasquet (Brussels, BE)	
09:45	Acute dyspnea and hypoxemia: echo of the heart & lungs.	25
	L. Gargani (Pisa, IT)	
10:00	Pulmonary embolism.	26
	G. Chalikias (Alexandroupolis, GR)	
10:15	Aortic dissection - best approach.	27
	M.J. Swaans (Nieuwegein, NL)	

11:00 - 12:30

Cardiac imaging in the intensive-care unit (ICU)

Chairpersons: F. Guarracino (Pisa, IT); B. Cholley (Paris, FR)

11:00	Hemodynamic instability in the ICU : echo guided treatment.	54
	F. Guarracino (Pisa, IT)	
11:22	Imaging in the management of ECMO.	55
	D. Bettex (Zurich, CH)	
11:45	Postoperative emergencies in valve surgery.	56
	F. Lebrun (Luxembourg, LU)	
12:07	Place of pocket size echo-devices in the ER and ICU.	57
	N. Cardim (Lisbon, PT)	

12:45 - 13:45 Abstract Session



Young Investigator Award session - Clinical

Chairpersons: B.A. Popescu (Bucharest, RO); G. Habib (Marseille, FR)

Judges: P.P. Sengupta (New York, US); E. Donal (Rennes, FR); M. Vannan (Columbus, US);

B. Cosyns (Braine L'Alleud, BE)

Three young scientists will present their research in competition for the EuroEcho-Imaging Young Investigator Award prize in front of a jury panel and the chairperson moderating the session.

Results of the competition will be announced during the Faculty dinner to be held on Thursday 12 December.

- | | | |
|-------|--|----|
| 12:45 | Japanese Society of Echocardiography (JSE) - Young Investigator Awardee presentation: new index derived from 3-Dimensional speckle tracking echocardiography for the estimation of left ventricular filling pressure: comparison with E/e'. | 69 |
| | D. Sakurai (Osaka, JP) | |
| 13:00 | Paravalvular aortic regurgitation after autoexpandibles aortic prostheses. Comparison between Edwards-Sapien prostheses and Perceval sutureless aortic valve. | 70 |
| | L. Caballero, J. Garcia-Lara, M. Garcia-Navarro, M.J. Oliva, D. Saura, J. Garcia-Puente, E. Pinar, M. Valdes, F. Gutierrez, G. De La Morena (Murcia, ES) | |
| 13:15 | Exercise echocardiographic determinants of BNP changes during follow-up in asymptomatic patients with aortic stenosis and preserved left ventricular function. | 71 |
| | C. Henri, J. Magne, R. Dulgheru, S. Laaraibi, D. Voilliot, S. Kou, L. Piérard, P. Lancellotti (Liège, BE) | |
| 13:30 | Early abnormality detected by two-dimensional speckle-tracking echocardiography in patients with extra-cardiac sarcoidosis: comparison with magnetic resonance imaging. | 72 |
| | M. Orii, K. Hirata, T. Tanimoto, S. Ota, T. Yamano, Y. Ino, T. Yamaguchi, T. Kubo, T. Imanishi, T. Akasaka (Wakayama, JP) | |

14:00 - 15:30 Advanced applications of perioperative transoesophageal echocardiography

Chairpersons: P.F. Wouters (Ghent, BE); J.-L. Vanoverschelde (Brussels, BE)

- | | | |
|-------|---|-----|
| 14:00 | Value of transoesophageal echocardiography in minimally invasive mitral valve surgery. | 98 |
| | F.F. Faletra (Lugano, CH) | |
| 14:18 | Value of transoesophageal echocardiography in aortic valve surgery. | 99 |
| | J.-L. Vanoverschelde (Brussels, BE) | |
| 14:36 | Selection of VAD: how to predict recovery with echo. | 100 |
| | M. Dandel (Berlin, DE) | |
| 14:54 | Acute right ventricular failure. | 101 |
| | M.D. Seeberger (Basel, CH) | |
| 15:12 | Transoesophageal echocardiography in post infarction ventricular septal defect. | 102 |
| | J. Ender (Leipzig, DE) | |

Course on valvular heart disease in the era of new interventions.

MANISA



Joint session with the Turkish Working Group of Cardiac Imaging

09:00 - 10:30

Mitral valve

Chairpersons: C. Erol (Ankara, TR); I. Dincer (Ankara, TR)

- | | | |
|-------|--|----|
| 09:00 | Echocardiographic segmentation and surgical anatomy of the mitral valve: How to guide mitral valve repair in mitral valve prolapse? | 28 |
| | O. Tufekcioglu (Ankara, TR) | |
| 09:22 | How to diagnose and guide the management of ischaemic mitral regurgitation? | 29 |
| | L.E. Sade (Ankara, TR) | |
| 09:45 | Percutaneous repair of mitral regurgitation: How- to guide to obtain the best result? | 30 |
| | G. Yucel (Istanbul, TR) | |
| 10:07 | Percutaneous mitral balloon valvuloplasty: How- to guide to obtain the best result? | 31 |
| | I. Ozdogru (Kayseri, TR) | |

10:30 - 11:00 How-to Session

How to make a scientific poster?

Chairperson: B.W. Michalski (Ksawerow, PL)

- | | | |
|-------|-------------------------|----|
| 10:30 | Presenter. | 32 |
| | P. Pibarot (Quebec, CA) | |

How-to session provide practical details and tools or tips and tricks on a specific topic related to the research. These sessions are built to help attendees to improve their experiences to complete successfully research project: from founding and grant application, to data analysis, results presentation and publication. The How-to session are definitely recommended to the EACVI club 35 members.

11:00 - 12:30

Aortic valve

Chairpersons: S. Aytekin (Istanbul, TR); Y. Basaran (Istanbul, TR)

- | | | |
|-------|--|----|
| 11:00 | How to assess and guide the management of patients with aortic stenosis in low-flow low-gradient situation. | 58 |
| | N. Arat Koc (Istanbul, TR) | |
| 11:18 | How to assess and guide the management low-flow severe aortic stenosis with preserved ejection fraction. | 59 |
| | N. Ozer (Ankara, TR) | |
| 11:36 | Multimodality imaging to guide TAVI. | 60 |
| | C. Kaymaz (Istanbul, TR) | |
| 11:54 | Aortic regurgitation: quantification and timing of surgery in asymptomatic patients. | 61 |
| | Y. Tavit (Ankara, TR) | |
| 12:12 | Aorta in aortic valvular heart disease. | 62 |
| | A. Sahinarslan (Ankara, TR) | |

12:45 - 13:45 Abstract Session



Young Investigator Award session - Basic Science

Chairpersons: P. Lancellotti (Liège, BE); G. Maurer (Vienna, AT)

Judges: T. Edvardsen (Oslo, NO); R.J. Aguilar Torres (Madrid, ES); P. Pellikka (Rochester, US)

Three young scientists will present their research in competition for the EuroEcho-Imaging Young Investigator Award prize in front of a jury panel and the chairperson moderating the session. Results of the competition will be announced during the Faculty dinner to be held on Thursday 12 December.

12:45	American Society of Echocardiography (ASE) - Young Investigator Awardee presentation: an educational intervention reduces the rate of inappropriate transthoracic echocardiograms in ambulatory care.	73
	S.R. Bhatia (Toronto, CA)	
13:00	Regional differences in radial function in a closed chest, closed pericardium model of acute left ventricular afterload increase.	74
	M. Cikes, G.R. Sutherland, N. Jakus, P. Haemers, J.D.hooge, P. Claus (Zagreb, HR; Leuven, BE)	
13:15	Cardiac-specific over-expression of epidermal growth factor receptor 2 (ErbB2); A novel small animal model of hypertrophic obstructive cardiomyopathy.	75
	L.L. Sorensen, D. Bedja, P.S. Shah, T.P. Abraham, M.R. Abraham, K.L. Gabrielson (Baltimore, US)	
13:30	Impact of the nyquist limit on mitral regurgitant flow rate as measured by 3-dimensional proximal isovelocity surface area	76
	N. Brugger, S. De Marchi, H. Steck, D. Zumstein, C. Seiler (Bern, CH)	

14:00 - 15:30 Teaching Course

14:00 - 15:30 Prosthetic valves

Chairpersons: M. Ozkan (Istanbul, TR); M.S. Kucukoglu (Istanbul, TR)

14:00	Hemodynamic assessment of prostheses.	103
	M.B. Yilmaz (Sivas, TR)	
14:22	Patient prosthesis mismatch: how to define and follow the patient?	104
	S. Nalbantgil (Izmir, TR)	
14:45	Paravalvular leaks: how to map and approach for correction?	105
	B. Mutlu (Istanbul, TR)	
15:07	Prosthetic valve obstruction: how to manage?	106
	N. Ozdemir (Istanbul, TR)	

15:30 - 16:00 How-to Session

MANISA

How to give a successful presentation?

How-to session organised by EACVI Club 35



Chairpersons: A. Cohen (Paris, FR); S. Kutty (Omaha, US)

15:30 **Presenter.**

J.U. Voigt (Leuven, BE)

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How-to session provide practical details and tools or tips and tricks on a specific topic related to the research. These sessions are built to help attendees to improve their experiences to complete successfully research project: from founding and grant application, to data analysis, results presentation and publication. The How-to session are definitely recommended to the EACVI club 35 members.

INAUGURAL SESSION

Welcome Address by the EACVI President

P. Lancellotti (Liège, BE)

Welcome Address by the ESC President Elect

F.J. Pinto (Lisbon, PT)

Welcome Address by the Local Host

O. Tufekcioglu (Ankara, TR)

Introduction of the Edler Lecture presenter

P. Lancellotti (Liège, BE)

Edler lecture: dynamic imaging

L.A. Piérard (Liège, BE)

Presentation of Edler Diploma

P. Lancellotti (Liège, BE)

Presentation of Diploma Honorary member

G. Habib (Marseille, FR)

EACVI Laboratory Accreditation Awardees

A. Stefanidis (Athens, GR)

EACVI Research Grant Winners

T. Edvardsen (Oslo, NO)

Opening Address

P. Lancellotti (Liège, BE)

17:30 Networking reception in the exhibition area

Handwriting practice lines consisting of 20 horizontal dotted lines.

Wednesday 11 December



CLUB 35 POSTERS

The European Association of Cardiovascular Imaging and the Scientific Programme Committee have decided to pursue this initiative aimed at putting a special focus on Young Researchers. You will find these posters, put forward by a flag, at the entrance of the Poster Area.

Come meet the young presenters!



Club 35 Moderated Poster Sessions

All Posters will be on display from 09:30 - 16:00.

Morning break 10:30 - 11:00

Time to meet the presenters / interact & exchange around research presented

Club 35 Moderated Poster Sessions A & B (10:30-11:00) Pages 19 & 20

Attend these 2 Moderated Poster sessions to hear flash presentation of the research by the presenters in front of moderators expert in the topics presented.

All day Club 35 Poster session

All Posters will be on display from 09:30 - 16:00.

Lunch break 12:30 - 14:00

Time to meet the presenters / interact, exchange around research presented and join the experts visiting the Club 35 Posters

Club 35 Poster Session 1 Page 21

ALL DAY POSTER

Moderated Poster Sessions

All Posters will be on display from 09:30 - 16:00.

Afternoon break 15:30 - 16:00

Time to meet the presenters / interact & exchange around research presented

Moderated Poster sessions 1&2 (15:30-16:00) Pages 24 & 25

Attend these 2 Moderated Poster sessions to hear flash presentation of the research by the presenters in front of moderators expert in the topics presented.

All day Poster session

All Posters will be on display from 09:30 - 16:00.

Lunch break 12:30 - 14:00

Time to meet the presenters / interact, exchange around research presented and join the experts visiting the Club 35 Posters

Poster Session 1 Page 26

Abstracts presentation by topic



High Score Abstract

Look out for these abstracts acknowledged by the reviewing committee.

Missed a Presentation?

All posters, abstracts and slide presentations are available for viewing at the e-Library in the Poster Area.

After the congress, abstracts will be available online and a selection of slide presentations will be available only to EACVI Members. More information on the ESC-EACVI Stand.

Abstract presenters can consult the **POSTER ASSISTANCE DESK** for further information and to retrieve their Certificate of Presentation.

Important information for Presenters

Poster presenters must set up Poster between 09:00 - 09:30.

All posters not affixed by 10:00 may be considered as no-show. Posters must be removed from the area at 16:00.

09:30 - 16:00 Club 35 Moderated Posters

Poster area

10:30 - 11:00 - Club 35 Moderated Poster Session - Part A



Chairpersons: D. Muraru (Padua, IT); G.A. Derumeaux (Bron, FR)

Reversibility of metabolic disorders, of left ventricular hypertrophy and of ventriculo-vascular dysfunction 6 and 12 months after bariatric surgery. P108

M.E. Iancu, M. Serban, C. Copaescu, C. Ginghina (Bucharest, RO)

Decoding enigmas in bicuspid aortic valve: familial aggregation, heritability and phenotypic concordance. P109

A. Carro, G. Teixido-Tura, V. Galuppo, G. Maldonado, A. Santos, D. Gruosso, J.A. Urbano, A. Ribera, I. Ferreira, A. Evangelista (Barcelona, ES)

Diagnostic value of right ventricular strain imaging in patients with suspected arrhythmogenic right ventricular cardiomyopathy. P110

K. Yoshii, T. Onishi, M. Chimura, Y. Tsukishiro, M. Tsuru, M. Masai, S. Yamada, Y. Taniguthi, Y. Yasaka, H. Kawai (Himeji, JP)

Transthoracic echocardiography for aortic dilation assessment: seeking the optimum measurement method. P111

A. Carro, J.F. Rodriguez-Palomares, G. Teixido-Tura, H. Cuellar, V. Pineda, L. Gutierrez, M.T. Gonzalez-Alujas, V. Galuppo, G. Maldonado, A. Evangelista (Barcelona, ES)

Aortic dilation in bicuspid aortic valve: phenotypic classification and clinical implications. P112

A. Carro, G. Teixido-Tura, G. Maldonado, V. Galuppo, D. Gruosso, J.F. Rodriguez-Palomares, M.T. Gonzalez-Alujas, L. Gutierrez, S. Moral, A. Evangelista (Barcelona, ES)

10:30 - 11:00 - Club 35 Moderated Poster Session - Part B



Chairpersons: L. Badano (Padua, IT); I. Simova (Sofia, BG)

- | | |
|--|-------------|
| Relationship between P wave disperison, atrial electromechanical delay, left atrial remodeling and NT-proBNP levels in patients with hypertrophic cardiomyopathy. | P113 |
| K. Tuluçe, S. Yakar Tuluçe, E. Isayev, M. Bilgin, O. Yavuzgil, C. Gurgun, S. Nalbantgil, C. Soydas Cinar, F. Ozerkan (Izmir, TR) | |
| A new echocardiographic scoring system predicts long-term maintenance of sinus rhythm in patients treated for atrial fibrillation. | P114 |
| D. Brandao Da Silva, R. Lehmann, C. Prinz, D. Horstkotte, L. Faber (Bad Oeynhausen, DE) | |
| Enlargement and lower strain values of the left atrium not always equal to diastolic dysfunction: an athlete's heart study. | P115 |
| A. Assabiny, A. Apor, A. Nagy, H. Vago, A. Toth, B. Merkely, A. Kovacs (Budapest, HU) | |
| Two-dimensional assessment of tricuspid annulus dynamics and diameters: study for new reference values. | P116 |
| M.H. Miglioranza, D. Muraru, D. Peluso, U. Cucchini, S. Mihaila, P. Naso, L. Puma, G. Kocabay, S. Iliceto, L.P. Badano (Porto Alegre, BR; Padua, IT) | |
| Impact of echo-guided LV lead placement for resynchronization therapy in patients with QRS<150ms and non-LBBB: analysis from the STARTER trial. | P117 |
| J. Marek, M. Ahmed, K. Ryo, K. Haugaa, S. Saba, J. Gorcsan (Pittsburgh, US) | |

Club 35 Poster with discussants



Club 35 Poster Session 1

Lunch time Club 35 Poster hosts - 12:30 - 14:00.

F. Rigo (Mestre-Venice, IT); P. Lipiec (Lodz, PL); L. Ernande (Paris, FR); E. Joyce (Leiden, NL); I. Simova (Sofia, BG); A.M. Iliesiu (Bucharest, RO)

Role of HIV as the etiologic agent of structural heart disease.

M. Montoro Lopez, I. Pons De Antonio, C. Itziar Soto, R. Florez Gomez, A. Alonso Ladreda, J.J. Rios Blanco, E. Refoyo Salicio, M. Moreno Yanguela, J.L. Lopez Sendon, G. Guzman Martinez (Madrid, ES)

Assessment of left ventricular function and remodeling in primary mitral regurgitation by 2D echocardiography and cardiovascular magnetic resonance.

C.M. Van De Heyning, J. Magne, L.A. Piérard, P.J. Bruyere, L. Davin, C. De Maeyer, B.P. Paelinck, C.J. Vrints, P. Lancellotti (Antwerp and Liège, BE)

The role of selected adipokines in the prediction of the postinfarction left ventricular remodeling with regard to the presence of metabolic syndrome.

B.W. Michalski, M. Krzeminska-Pakula, P. Lipiec, E. Szymczyk, L. Chrzanowski, J.D. Kasprzak (Lodz, PL)

Right atrial volume index and area quantification by two dimensional echocardiography.

R.N. Leao, A.F. Florencio, A.R. Oliveira, B. Bento, S. Lopes, J. Calaca, R. Palma Reis (Lisbon, PT)

Plasma markers of myocardium fibrosis in hypertensive patients with heart failure with preserved ejection fraction.

M.V. Krestjyaninov, R.H. Gimaev, V.A. Razin (Ulyanovsk, RU)

Comparisons of the new EuroSCORE II with the logistic EuroSCORE and the society of thoracic surgeons score. Implications for transcatheter aortic valve implantation.

D. Arangalage, A. Chiampan, C. Cimadevilla, A. Touati, D. Himbert, E. Brochet, B. lung, P. Nataf, A. Vahanian, D. Messika-Zeitoun (Paris, FR)

Jet length velocity ratio: a novel method to evaluate severity of chronic aortic regurgitation.

T.S. Guvenc, D. Karacimen, H.B. Erer, E. Ilhan, N. Sayar, G. Karakus, M. Eren (Kars and Istanbul, TR)

Intraoperative use of a new micro multiplane transoesophageal probe in neonates with congenital cardiac disease: preliminary results.

X. Iriart, N. Tafer, F. Roubertie, P. Mauriat, J.B. Thambo (Bordeaux-Pessac, FR)

Importance of heart rate response and left ventricular long axis function for exercise performance in patients with heart failure and normal ejection fraction.

J. Wang, F. Fang, G.W.K. Yip, J. Sanderson, W. Feng, C.M. Yu, Y.Y. Lam (Hong Kong, HK)

Myocardial mechanics of the right heart in elite athletes: all about remodeling?

A. Assabiny, A. Apor, A. Nagy, H. Vago, A. Toth, B. Merkely, A. Kovacs (Budapest, HU)

- Echocardiographic evaluation of two different strategies for preserving the pulmonary valve during early repair of tetralogy of Fallot: mid-term results.** P129
B. Castaldi, V.L. Vida, A. Guariento, M. Padalino, A. Cerutti, N. Maschietto, R. Biffanti, E. Reffo, G. Stellin, O. Milanese (Padua, IT)
- Left ventricle rotation function evaluation after dual chamber pacemaker implantation.** P130
K. Baronaite-Dudoniene, L. Urbaite, V. Smalinskas, R. Veisaite, T. Vasylius, J. Vaskelyte, A. Puodziukynas (Kaunas, LT)
- Left atrial function after successful circumferential pulmonary vein ablation.** P131
J. Wieczorek, A. Rybicka-Musialik, A. Berger-Kucza, A. Hoffmann, A. Wnuk-Wojnar, K. Mizia-Stec (Katowice, PL)
- Acute right ventricular failure after orthotopic cardiac transplantation: predictors and impact on follow-up - a tertiary center's experience.** P132
F. Melao, V. Ribeiro, S. Amorim, C. Araujo, J.P. Torres, J.S. Cardoso, P. Pinho, M.J. Maciel (Porto, PT)
- Reduced septal strain in patients with transposition of the great arteries, early marker of ventricular failure?** P133
P. Storsten, M. Eriksen, E. Boe, M.E. Estensen, G. Erikssen, O.A. Smiseth, H. Skulstad (Oslo, NO)
- Comparison of different lung ultrasound methodologies for pulmonary congestion evaluation in heart failure outpatients.** P134
M.H. Miglioranza, L. Gargani, R.T. Sant'Anna, M. Rover, V.M. Martins, A. Mantovanni, R.K. Kalil, T.L. Leiria (Porto Alegre, BR; Pisa, IT)
- Feasibility of assessing left ventricular function in hypertensive heart failure patients using endocardial area strain: a novel index derived from three-dimensional speckle tracking echocardiography.** P135
X.X. Luo, F. Fang, P.W. Lee, Z.H. Zhang, Y.Y. Lam, J.E. Sanderson, J.S.W. Kwong, C.M. Yu (Hong Kong, HK)
- Cardiovascular involvement in asymptomatic juvenile localized scleroderma patients.** P136
A. Borowiec, R. Dabrowski, J. Wozniak, S. Jasek, T. Chwyczko, I. Kowalik, J. Janas, E. Musiej-Nowakowska, H. Szwed (Warsaw, PL)
- Only asymmetrical pulmonary embolisation affect reversal pulmonary flow.** P137
M. Palinsky, J. Petrovicova, M. Pirscova (Vranov nad Toplou and Kosice, SK)
- Speckle tracking echocardiography in heart transplant recipients: global radial strain is reduced in healthy hearts early after transplantation.** P138
Z. Baricevic, D. Lovric, M. Cikes, B. Skoric, J. Ljubas Macek, V. Reskovic Luksic, J. Separovic Hanzevacki, D. Milicic (Zagreb, HR)
- Elevated admission mitral E/Ea ratio is associated with improvement of left ventricular systolic function three months after acute myocardial infarction.** P139
A.M. Elmissiri, G.S. El Shahid, S. Abdal-Wahhab (Cairo, EG)
- Impaired left atrial longitudinal deformation in cryptogenic stroke patients.** P140
M.G. Vural, M. Yilmaz, S. Cetin, R. Akdemir, T.K. Yoldas, E. Yeter (Ankara and Sakarya, TR)
- Assessment of left ventricular and left atrial diastolic function with two dimensional(2d) strain imaging in patients with beta-thalassemia major (Cooley disease).** P141
A.G. Karamanou, E.S. Hamodraka, I.A. Lekakis, I.A. Paraskevaidis, D.T. Kremastinos (Athens, GR)

Effect of incremental exercise testing on 3d area tracking and left ventricle ejection fraction of race car drivers-a pilot study.

P142

E.K. Appiah-Dwomoh, V.C. Wang, C. Otto, F. Mayar, K. Bonaventura (Potsdam, DE)

The biggest cardiac hydatid cyst in the literature: presented in an asymptomatic elderly patient.

P143

H. Sunman, U. Canpolat, M. Kuyumcu, H. Yorgun, L. Sahiner, N. Ozer (Ankara, TR)

15:30 - 16:00 - New insights into risk stratification in valvular heart disease - Part A

Chairpersons: E. Donal (Rennes, FR); J. Bergler-Klein (Vienna, AT)

A new four-parameter echocardiographic score to predict mortality with aortic stenosis. P144

W. Tsang, I.S. Salgo, M. Gajjar, M.C. Abduch, B.H. Freed, L. Weinert, R.M. Lang (Toronto, CA; Andover and Chicago, US; Sao Paulo, BR)

Incremental prognostic value of pre-operative echocardiography in predicting short and long-term mortality in patients undergoing redo valve surgery. P145

I. Mordi, N. Al-Attar, N. Tzemos (Glasgow, GB)

Prognostic value of pressure recovery phenomenon in asymptomatic severe aortic stenosis. P146

A. Cacicedo, S. Velasco Del Castillo, A. Anton Ladislao, U. Aguirre Larracoechea, X. Arana Achaga, G. Zugazabeitia Irazabal, A. Romero Pereiro, M. Sadaba Sagredo, E. Larraudogoitia Zaldumbide, I. Lekuona Goya (Galdakao, ES)

Outcome of combined aortic stenosis and mitral regurgitation. P147

R. Zilberszac, H. Gabriel, W. Wisser, G. Maurer, R. Rosenhek (Vienna, AT)

Low-gradient aortic stenosis with preserved left ventricular ejection fraction: prognostic stratification in operated and non operated patients. P148

E. Fabris, M. Morosin, M. Moretti, B. Pinamonti, M. Merlo, G. Barbati, A. Pappalardo, G. Sinagra (Trieste, IT)

15:30 - 16:00 - New insights into risk stratification in valvular heart disease - Part B

Chairpersons: P. Reant (Bordeaux-Pessac, FR); J. Magne (Liège, BE)

Left atrial strain for prognosis prediction in patients with moderate mitral valve regurgitation. P149

M. Cameli, M. Lisi, F.M. Righini, C. Di Tommaso, V. Curci, P. Cameli, S. Lunghetti, M. Focardi, M. Henein, S. Mondillo (Siena, IT; Umea, SE)

The three-dimensional echocardiography-derived vena contracta area at rest and its increase during exercise predicts adverse outcome in mild to moderate functional mitral regurgitation. P150

J. Vecera, M. Kotrc, R. Kockova, J. Bartunek, M. Vanderheyden, M. Penicka (Aalst, BE; Prague, CZ)

Prognosis and right ventricular function assessment in chronic heart failure with severe tricuspid regurgitations: doppler-derived systolic pulmonary artery pressure is not enough. P151

D. Liu, K. Hu, M. Niemann, S. Herrmann, P.D. Gaudron, G. Ertl, B. Bijnens, F. Weidemann (Wurzburg, DE; Barcelona, ES)

Moderate to severe tricuspid regurgitation is an independent predictor for early readmission in patients with chronic heart failure. P152

G. Kozdag, G. Ertas, E. Emre, Y. Akay, K. Karauzum, I. Yilmaz, U. Celikyurt, S. Kilic, D. Ural (Kocaeli and Istanbul, TR)

Predictors of prognosis in patients with mild to moderate paravalvular leakage after mitral valve replacement. P153

I.J. Cho, J.W. Son, J.M. Lee, J. Choi, J.H. Yoon, S. Shin, H.J. Chang, G.R. Hong, J.W. Ha, N. Chung (Seoul, KR)

Poster session 1

General principles

Morphology of the figure-of-8 display in the echocardiographic assessment of percutaneous disc occluders. P154

P.B. Bertrand, L. Grieten, C. Smeets, F.H. Verbrugge, W. Mullens, M. Vrolix, M. Rivero-Ayerza, D. Verhaert, P. Vandervoort (Genk and Hasselt, BE)

Fast cardiac imaging using multiple transmit beams: experimental validation and in vivo application. P155

L. Tong, A. Ramalli, P. Tortoli, J.D.hoge (Leuven, BE; Florence, IT)

Left ventricular global dyssynchrony is exaggerated with age. P156

G. Bajraktari, P. Lindqvist, M.Y. Henein (Umea, SE)

Assessment of diameters, volumes and mass

The comparison of assesment of left ventricle mass by cardiac magnetic resonane and transthoracic echocardiography in renal allografts recipients. P157

M. Obremska, M.B. Boratynska, J.K. Kurcz, D.Z. Zysko, T.B. Baran, M.K. Klinger (Wroclaw, PL)

Usefulness of right atrial volume index in predicting outcome in chronic systolic heart failure. P158

K. Darahim (Cairo, EG)

Measurement of right atrial volume: comparison of a semi-automatic algorithm of real-time 3D echocardiography with cardiac magnetic resonance imaging. P159

H. Mueller, D. Carballo, N. Popova, J.-P. Vallee (Geneva, CH)

Left atrial morphometry in patients undergoing atrial fibrillation ablation. P160

M. Floria, R. Chistol, G. Tinica, M. Grecu (Iasi, RO)

Which echocardiographic parameter discriminates better the right ventricular dilatation in patients with pulmonary insufficiency? P161

M. Rodriguez Serrano, A. Osa-Saez, J. Rueda-Soriano, F. Buendia-Fuentes, D. Domingo-Valero, B. Igual-Munoz, P. Alonso-Fernandez, A. Quesada-Carmona, V. Miro-Palau, M. Palencia-Perez (Valencia, ES)

The echocardiographic and cardiac magnetic resonance grading of left ventricular dilatation and ejection fraction is interchangeable in patients with severe aortic and mitral regurgitation. P162

O. Bech-Hanssen, C.L. Polte, K. Lagerstrand, M. Janulewicz, S. Gao (Gothenburg and Trollhättan, SE)

Assessment of systolic function

Two-dimensional speckle tracking echocardiography for assessment of early cardiac function after treatment of patients with overt hypothyroidism. P163

E. Erdogan, M. Akkaya, A. Bacaksiz, A. Tasal, O. Sonmez, M. Turfan, S. Kul, M.A. Vatankulu, H. Uyarel, O. Goktekin (Istanbul, TR)

Subclinical biventricular systolic dysfunction in patients with multiple sclerosis. P164

R.I. Mincu, L.S. Magda, S. Mihaila, M. Florescu, D. Mihalcea, O.E. Enescu, A. Chiru, B. Popescu, C. Tiu, D. Vinereanu (Bucharest, RO)

- Non-homogenous LV remodeling in patients with moderate to severe aortic regurgitation.** P165
K. Broch, G. Kunszt, R. Massey, S.F. De Marchi, S. Aakhus, L. Gullestad, S. Urheim (Oslo, NO; Bern, CH)
- Non-sinus rhythm adversely affects left ventricular shape, contraction and the regression of hypertrophy after aortic valve replacement.** P166
L. Yuan, J.L. Feng, X.Y. Jin (Oxford, GB)
- Wait, treat and see: echocardiographic monitoring of brain-dead potential donors with stunned heart.** P167
T. Bombardini, M. Casartelli, D. Simon, M.G. Gaspari, F. Procaccio (Pisa and Verona, IT)
- Global longitudinal strain predicts subsequent ventricular arrhythmia in patients receiving cardiac resynchronization therapy.** P168
N.E. Hasselberg, K.H. Haugaa, A. Brunet, E. Kongsgaard, E. Donal, T. Edvardsen (Oslo, NO; Rennes, FR)
- Subclinical left ventricular systolic dysfunction in patients with coronary artery anomaly : A speckle tracking and velocity vector imaging-based study.** P169
T. Sahin, S. Yurdakul, B. Cengiz, A. Bozkurt, S. Aytekin (Istanbul, TR)
- Predictors of global longitudinal strain impairment in patients with suspected coronary artery disease.** P170
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IMAGING CAMPUS 1 Abbott Vascular and Philips Healthcare	Deep dive in understanding the Echo guidance for Percutaneous Mitral Valve Repair patients screening and procedure	Deep dive in understanding the Echo guidance for Percutaneous Mitral Valve Repair patients screening and procedure	Deep dive in understanding the Echo guidance for Percutaneous Mitral Valve Repair patients screening and procedure	Deep dive in understanding the Echo guidance for Percutaneous Mitral Valve Repair patients screening and procedure
IMAGING CAMPUS 2 GE Healthcare	4D Echocardiography Navigation and views of cases with respect to the anatomy of the heart	Comprehensive Analysis of Left Ventricular Geometry and Function (2D and 4D Strain) by 4D Echocardiography	4D TEE in the CathLab and in the operating room Clinical application of 4D TEE for percutaneous structural heart interventions	Imaging myocardial mechanics Clinical applications of 2D Strain imaging, left ventricular rotation and torsion assessment
IMAGING CAMPUS 3 EACVI Club 35	Club 35 Workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners	Club 35 Workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners	Club 35 Workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners	Club 35 Workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners
IMAGING CAMPUS 4 Siemens AG Healthcare Sector	Benefits of advanced echo imaging technologies Case based learning session	Benefits of advanced echo imaging technologies Case based learning session	Benefits of advanced echo imaging technologies Case based learning session	Benefits of advanced echo imaging technologies Case based learning session
IMAGING CAMPUS 5 EACVI	3D Echo & cardiac anatomy	3D Echo & cardiac anatomy	3D Echo & cardiac anatomy	3D Echo & cardiac anatomy

Sign up now in the Imaging Campus room or at the Sponsor's Stand.



09:30 - 10:30 **Deep dive in understanding the Echo guidance for Percutaneous Mitral Valve Repair patients screening and procedure**

Presenter: N.C. Wunderlich (Frankfurt, DE)

11:00 - 12:30 **Deep dive in understanding the Echo guidance for Percutaneous Mitral Valve Repair patients screening and procedure**

Presenter: N.C. Wunderlich (Frankfurt, DE)

14:00 - 15:30 **Deep dive in understanding the Echo guidance for Percutaneous Mitral Valve Repair patients screening and procedure**

Presenter: M.J. Swaans (Nieuwegein, NL)

16:00 - 17:30 **Deep dive in understanding the Echo guidance for Percutaneous Mitral Valve Repair patients screening and procedure**

Presenter: M.J. Swaans (Nieuwegein, NL)



Session objectives:

Understand the Percutaneous Mitral Valve Repair therapy: From screening to procedure and from technical to clinical aspects

Practice Percutaneous Mitral Valve Repair patients screening with TTE Echo Philips Ultrasound system

Interact with Percutaneous Mitral Valve Repair device

09:00 - 10:30

4D Echocardiography - Navigation and views of cases with respect to the anatomy of the heart

Presenter: L. Badano (Padua, IT)

11:00 - 12:30

Comprehensive Analysis of Left Ventricular Geometry and Function (2D and 4D Strain) by 4D Echocardiography

Presenter: D. Muraru (Padua, IT)



Session objectives:

During these sessions the participants will learn how to navigate and quantify 4D Echo and Deformation Imaging (2D Strain) data sets. The learning objectives will focus on recognition of normal and abnormal anatomical structures and deformation patterns.

14:00 - 15:30

**4D TEE in the CathLab and in the operating room
Clinical application of 4D TEE for percutaneous structural heart interventions**

Presenter: V. Delgado (Leiden, NL)



Session objectives:

During this session the participants will learn how to navigate and quantify 4D Echo data sets. The learning objectives will focus on recognition of normal and abnormal anatomical structures.

16:00 - 17:30

Imaging myocardial mechanics - Clinical applications of 2D Strain imaging, left ventricular rotation and torsion assessment

Presenter: B.A. Popescu (Bucharest, RO)



Session objectives:

During this session the participants will learn how to navigate and quantify Deformation Imaging (2D Strain) data sets. The learning objectives will focus on recognition of normal and abnormal anatomical structures and deformation patterns.

09:00 - 10:30

Club 35 Workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners



Presenters: S. Gianstefani (London, GB); B.A. Popescu (Bucharest, RO);
S. Wright (London, GB)

11:00 - 12:30

Club 35 Workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners



Presenters: S. Mihaila (Bucharest, RO); F. Guarracino (Pisa, IT);
A. Smith (Barnet, GB)

14:00 - 16:30

Club 35 Workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners



Presenters: K. Addetia (Chicago, US); K.F. Fox (London, GB);
B. Martin (London, GB)

16:00 - 17:30

Club 35 Workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners



Presenters: M.M. Gurzun (Bucharest, RO); F. Flachskampf (Uppsala, SE);
S. Giannaris (London, GB)



Session objectives:

Provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D transoesophageal echocardiography using modern training equipment (3D computer generated TOE simulator and workstation)



09:00 - 10:30 **Benefits of advanced echo imaging technologies**
Case based learning session

Presenters: A. Garcia Martin (Madrid, ES); A. Gonzalez Gomez (Madrid, ES)

11:00 - 12:30 **Benefits of advanced echo imaging technologies**
Case based learning session

Presenter: F.P. Schmidt (Mainz, DE)

14:00 - 16:30 **Benefits of advanced echo imaging technologies**
Case based learning session

Presenters: A. Garcia Martin (Madrid, ES); A. Gonzalez Gomez (Madrid, ES)

16:00 - 17:30 **Benefits of advanced echo imaging technologies**
Case based learning session

Presenter: F.P. Schmidt (Mainz, DE)



Session objectives

Clinical Product Education helps provide clinicians (physicians, nurses, and technologists) with information so they can improve their knowledge and skills to optimize the performance of their ultrasound equipment.

We will discuss the role of 3DE in morphologic and functional evaluation of valvular heart disease and left ventricle function analysis. Moreover a new methodology for valvular regurgitations severity evaluation will be presented and educated.

Target audience:

You will explore in this case based learning sessions the advantages and limitations of oneheartbeat 3DE in the evaluation of patients from your clinical practice.

09:00 - 10:30 3D Echo & cardiac anatomy

Presenter: F.F. Faletra (Lugano, CH)

11:00 - 12:30 3D Echo & cardiac anatomy

Presenter: F.F. Faletra (Lugano, CH)

14:00 - 15:30 3D Echo & cardiac anatomy

Presenter: F.F. Faletra (Lugano, CH)

16:00 - 17:30 3D Echo & cardiac anatomy

Presenter: F.F. Faletra (Lugano, CH)



Session objectives:

More and more complex structural heart disease interventions and electrophysiological procedures require a deep understanding of cardiac anatomy. Three-dimensional echocardiography is the most advanced imaging modality to visualize the anatomy of internal cardiac structures "in vivo". A detailed knowledge of normal anatomy facilitates comprehension of various structural heart diseases. Participants are invited to take a journey through the normal heart using 3D transthoracic and transesophageal imaging. When useful, normal structures will be presented side-by-side with anatomic specimen. Imaging of the most common structural heart disease will be also shown.

Target audience:

Imaging cardiologists, adult and paediatric cardiologists, interventional cardiologists, electrophysiologists.

08:30 - 10:00 Main Session

ANKARA

Image-based treatment planning and evaluation of percutaneous valve intervention

Chairpersons: J.L. Zamorano Gomez (Madrid, ES); S. Kaul (Portland, US)

Imaging in Cardiovascular Intervention

08:30	Patient selection for transcatheter aortic valve implantation: patient risk profile and anatomical selection criteria.	267
	To be announced	
08:52	Peri-procedural guidance and detection of complications in TAVI.	268
	D. Messika-Zeitoun (Paris, FR)	
09:15	Patient selection for transcatheter mitral regurgitation intervention: patient risk profile and anatomical selection criteria.	269
	M.J. Swaans (Nieuwegein, NL)	
09:37	Peri-procedural guidance and detection of complications in transcatheter mitral regurgitation intervention.	270
	J.L. Cavalcante (Pittsburgh, US)	

08:30 - 10:00 Clinical Imaging

ISTANBUL

Innovation in atrial fibrillation therapy

Joint session with the European Heart Rhythm Association.



Chairpersons: M. Vannan (Columbus, US); P. Caso (Naples, IT)

Clinical Imaging

Multimodality imaging

08:30	Advanced imaging evaluation of left atrium.	271
	V. Rigolin (Chicago, US)	
08:52	Thromboembolism risk assessment.	272
	A. Cohen (Paris, FR)	
09:15	Imaging left atrial appendage closure.	273
	P. Caso (Naples, IT)	
09:37	Update in atrial fibrillation treatment.	274
	A.J. Camm (London, GB)	

08:30 - 10:00 Debate Session

IZMIR

Controversies in aortic stenosis

Joint session with the ESC Working Group on Valvular Heart Disease



Chairpersons: M.L. Enriquez-Sarano (Rochester, US); B. Iung (Paris, FR)

Asymptomatic severe aortic stenosis with preserved left ventricular ejection fraction.

- | | | |
|-------|---|-----|
| 08:30 | Early surgery should be recommended – YES. | 275 |
| | R. Rosenhek (Vienna, AT) | |
| 08:48 | Early surgery should be recommended – NO. | 276 |
| | B. Chambers (London, GB) | |
| 09:06 | Questions & answers. | |

Paradoxical low-flow/low-gradient aortic stenosis with normal left ventricular ejection fraction: benefit of surgery.

- | | | |
|-------|---------------------------------|-----|
| 09:15 | Myth. | 277 |
| | J.-L. Monin (Creteil, FR) | |
| 09:33 | Reality. | 278 |
| | P. Pibarot (Quebec, CA) | |
| 09:51 | Questions & answers. | |

08:30 - 10:00 Symposium

VAN

Newer methods in stress echocardiography

Joint session with the Turkish Working Group of Cardiac Imaging



Chairpersons: M.S. Kucukoglu (Istanbul, TR); R. Senior (London, GB)

- | | | |
|-------|--|-----|
| 08:30 | Wall motion assessment is the best. | 279 |
| | T. Ozyigit (Istanbul, TR) | |
| 08:52 | Tissue Doppler imaging, strain and strain rate is the method of choice. | 280 |
| | J.U. Voigt (Leuven, BE) | |
| 09:15 | Myocardial perfusion by contrast echo: optimum method. | 281 |
| | P. Colonna (Bari, IT) | |
| 09:37 | Combined perfusion and strain-best of both? | 282 |
| | H.H. Becher (Edmonton, CA) | |

08:30 - 10:00 Symposium

KONYA

Transposition of the great arteries

Joint session with the ESC Working Groups on Grown-up Congenital Heart Disease (GUCH) and the Association for European Paediatric and Congenital Cardiology (AEPC)



Chairpersons: M.K. Friedberg (Toronto, CA); O. Miller (London, GB)

08:30	Surgical interventions important for follow up in adults.	283
	A. Hoschtitzky (Liverpool, GB)	
08:52	Post atrial correction: should be still discussed in 2013?	284
	F.J. Meijboom (Utrecht, NL)	
09:15	Post arterial switch operation: from rest to stress.	285
	P. Acar (Toulouse, FR)	
09:37	Complex transposition: the tricks and tips in imaging.	286
	S. Fratz (Munich, DE)	

08:30 - 10:00 Abstract Session

BURSA

The importance of cardiac imaging in systemic diseases

Chairpersons: O.A. Smiseth (Oslo, NO); J.D. Thomas (Cleveland, US)

	Panel of experts.	287
	B. Bijnens (Barcelona, ES); E. Plonska-Gosciniak (Szczecin, PL); K.H. Haugaa (Oslo, NO); J.C. Plana (Cleveland, US); F.E. Rademakers (Leuven, BE); T.C. Gillebert (Ghent, BE)	
08:30	Determinants of right ventricular involvement in patients with systemic sclerosis.	288
	P. Potthoff, L. Gargani, G. Agoston, A. Moreo, A. Pingitore, M. Lombardi, A. Varga, R. Sicari, E. Picano (Temuco, CL; Pisa and Milan, IT; Szeged, HU)	
08:45	Impact of combined systolic and diastolic functional parameter assessment for differentiation of cardiac amyloidosis from other causes of concentric left ventricular hypertrophy.	289
	K. Hu, D. Liu, M. Niemann, S. Herrmann, M. Cikes, P.D. Gaudron, S. Knop, G. Ertl, B. Bijnens, F. Weidemann (Wurzburg, DE; Zagreb, HR; Barcelona, ES)	
09:00	Usefulness of combination of FDG-PET and speckle-tracking echocardiography to predict steroid responders in cardiac sarcoidosis.	290
	M. Orii, K. Hirata, T. Yamano, T. Tanimoto, Y. Ino, T. Yamaguchi, T. Kubo, T. Imanishi, T. Akasaka (Wakayama, JP)	
09:15	Apical sparing of late gadolinium enhancement and longitudinal strain deformation in cardiac amyloidosis.	291
	K. Addetia, A.R. Patel, K.T. Spencer, V. Mor-Avi, R.M. Lang (Chicago, US)	
09:30	Impaired left ventricle deformation and mechanical dyssynchrony by 3D speckle tracking in Fabry disease.	292
	W.-C. Yu, J.N. Liao, F.Y. Chang, D.M. Niu (Taipei, TW)	
09:45	Editorial.	293
	J.D. Thomas (Cleveland, US)	

08:30 - 10:00 Teaching Course

MANISA

Basics of cardiac ultrasound



Chairpersons: F. Flachskampf (Uppsala, SE); L. Herbots (Hasselt, BE)

Teaching courses are specifically dedicated to an audience aiming to improve its knowledge's, understanding and perfect its skills in a main topic of the Core curriculum of the EACVI.

08:30	Essentials for ultrasound: physics, instrumentation, settings.	294
	S. Droogmans (Jette, BE)	
08:52	The complete standard examination.	295
	A. Salustri (Abu Dhabi, AE)	
09:15	The usual mistakes and how to avoid them.	296
	E. Galli (Rennes, FR)	
09:37	Quality control in the echo-lab.	297
	A. Stefanidis (Athens, GR)	

10:15 - 10:45 How-to Session

MANISA

How to interpret statistics?

How-to session organised by EACVI Club 35



Chairpersons: J. Magne (Liège, BE)

10:15	Presenter:	298
	F. Maffessanti (Chicago, US)	

How-to session provide practical details and tools or tips and tricks on a specific topic related to the research. These sessions are built to help attendees to improve their experiences to complete successfully research project: from founding and grant application, to data analysis, results presentation and publication. The How-to session are definitely recommended to the EACVI club 35 members.

11:00 - 12:30 Main Session

ANKARA

Myocardial fibrosis and cardiac dysfunction: the added value of imaging

Chairpersons: G. Maurer (Vienna, AT); M. Galderisi (Naples, IT)

Multimodality imaging

11:00	Enhanced myocardial fibrosis - triggering and promoting factors.	299
	L.E. Sade (Ankara, TR)	
11:22	Imaging and non-imaging markers of myocardial fibrosis.	300
	T.H. Marwick (Hobart, AU)	
11:45	Prognostic impact of myocardial fibrosis - where does it really matters?	301
	W. Kosmala (Wroclaw, PL)	
12:07	Regression of myocardial fibrosis - is it possible?	302
	F. Weidemann (Wurzburg, DE)	

11:00 - 12:30 Clinical Imaging

ISTANBUL

Aortic stenosis

Joint session with the ESC Working Group on Valvular Heart Disease

This session is supported by Edwards Lifesciences in a form of an unrestricted educational grant.



Chairpersons: D. Messika-Zeitoun (Paris, FR); C.M. Otto (Seattle, US)

Clinical Imaging

11:00	Prevalence, prognosis and future.	303
	B. lung (Paris, FR)	
11:22	Evaluation of aortic stenosis.	304
	P. Pibarot (Quebec, CA)	
11:45	Impact of aortic stenosis on left ventricular function: advanced assessment.	305
	M. Takeuchi (Kitakyushu, JP)	
12:07	What is the best time to intervene?	306
	C.M. Otto (Seattle, US)	

11:00 - 12:30 Debate Session

IZMIR

Controversies in imaging ischaemic heart disease

Chairpersons: F. Rigo (Mestre-Venice, IT); F.J. Pinto (Lisbon, PT)

Multimodality imaging

Evaluation of intermediate coronary lesions

- | | | |
|-------|--|-----|
| 11:00 | Coronary flow reserve can only be measured accurately invasively - Pro. | 307 |
| | J.E. Davies (London, GB) | |
| 11:18 | Coronary flow reserve can only be measured accurately invasively - Con. | 308 |
| | E. Picano (Pisa, IT) | |
| 11:36 | Questions & answers. | |

Clinical significance of increased calcium score

- | | | |
|-------|--|-----|
| 11:45 | Coronary calcium score: does it matter in asymptomatic patients? - Pro. | 309 |
| | K. Nieman (Rotterdam, NL) | |
| 12:03 | Coronary calcium score: does it matter in asymptomatic patients? - Con. | 310 |
| | A. Hagendorff (Leipzig, DE) | |
| 12:21 | Questions & answers. | |

11:00 - 12:30 Symposium

VAN

Infectious and inflammatory disease: multi-imaging

Chairpersons: G. Habib (Marseille, FR); B.P. Paelinck (Edegem, BE)

- | | | |
|-------|---|-----|
| 11:00 | Differentiation of myocarditis. | 311 |
| | B.P. Paelinck (Edegem, BE) | |
| 11:22 | Imaging in pericarditis. | 312 |
| | A.P.J. van Dijk (Nijmegen, NL) | |
| 11:45 | Inflammatory great vessel disease. | 313 |
| | R.P. Choudhury (Oxford, GB) | |
| 12:07 | Prosthetic endocarditis. | 314 |
| | F. Thuny (Marseille, FR) | |

11:00 - 12:30 Symposium

KONYA

Imaging of carotid disease

Chairpersons: S. Kownator (Thionville, FR); M.G. Sprynger (Liège, BE)

11:00	Screening carotid disease: for whom?	315
	M.G. Sprynger (Liège, BE)	
11:22	Is the degree of stenosis enough to consider carotid revascularisation?	316
	S. Kownator (Thionville, FR)	
11:45	Imaging work-up prior to carotid revascularisation: is duplex enough?	317
	C. Gautier (Lille, FR)	
12:07	Imaging for the follow-up after carotid revascularization: how and how often?	318
	K.K. Naka (Ioannina, GR)	

11:00 - 12:30 Abstract Session

BURSA

The right heart ischaemic disease

Chairpersons: L. Rudski (Cote St Luc, CA); R.O. Jurcut (Bucharest, RO)

	Panel of experts.	319
	K.H. Haugaa (Oslo, NO); T. Kukulski (Zabrze, PL); E. Plonska-Gosciniak (Szczecin, PL); J.K. Oh (Rochester, US)	
11:00	Right ventricular global longitudinal strain in the prediction of clinical outcomes in patients with acute myocardial infarction by right coronary arterial occlusion.	320
	S.J. Park, J.H. Park, H.S. Lee, S.A. Jin, K.T. Ahn, J.H. Kim, J.H. Lee, S.W. Choi, J.O. Jeong, I.W. Seong (Daejeon, KR)	
11:15	Prognostic implications of elevated pulmonary artery pressure after ST-segment elevation myocardial infarction.	321
	G.E. Hoogslag, M.L.A. Haeck, H. Boden, S. Katsanos, I. Al Amri, P. Debonnaire, M.J. Schalij, J.J. Bax, N. Ajmone Marsan, V. Delgado (Leiden, NL)	
11:30	Time course of right ventricular dimensions and function after ST-segment elevation myocardial infarction.	322
	G.E. Hoogslag, M.L.A. Haeck, M.A. Velders, E. Joyce, H. Boden, M.J. Schalij, J.J. Bax, N. Ajmone Marsan, V. Delgado (Leiden, NL)	
11:45	Echocardiographic assessment of right ventricular dysfunction and its impact on short term outcome after CABG.	323
	M.F. Ismail, A. Alasfar, A. Sallam, M. Ibrahim (Riyadh, SA)	
12:00	Right ventricular dysfunction at discharge predicts heart failure readmission in patients with acute decompensated heart failure. a prospective study.	324
	J.L. Cavalcante, M. Abu-Mafouz, K. Shaikh, K. Ananthasubramaniam (Pittsburgh and Detroit, US)	
12:15	Editorial.	325
	L. Rudski (Cote St Luc, CA)	

11:00 - 12:30 Teaching Course

MANISA

Basics of cardiac assessment



Chairpersons: G. Karatasakis (Athens, GR); J.U. Voigt (Leuven, BE)

Teaching courses are specifically dedicated to an audience aiming to improve its knowledge's, understanding and perfect its skills in a main topic of the Core curriculum of the EACVI.

11:00	Quantitation of left ventricular dimensions and function.	326
	D. Mohty (Limoges, FR)	
11:22	Quantitation of right ventricular dimensions and function.	327
	P. Nihoyannopoulos (London, GB)	
11:45	Left and right atrium: size and function.	328
	V. Delgado (Leiden, NL)	
12:07	Assessment of diastolic function.	329
	B.A. Popescu (Bucharest, RO)	

12:45 - 13:45 Satellite Symposium

ISTANBUL

Can anatomical intelligence change the way echo studies are done and how should imaging approach to TAVI patients look like?

Sponsored by Philips Healthcare

Chairpersons: M.J. Monaghan (London, GB); P. Scislo (Warsaw, PL)

- 12:45 **Introduction.**
M.J. Monaghan (London, GB)
- 12:48 **How anatomical intelligence can improve assessment of the left ventricle.**
R.M. Lang (Chicago, US)
- 13:06 **How anatomical intelligence can improve assessment of the valve function.**
N. Ajmone Marsan (Leiden, NL)
- 13:24 **Multimodality imaging approach to patients undergoing TAVI.**
M.J. Monaghan (London, GB); J. Balzer (Duesseldorf, DE)
- 13:42 **Closing remarks.**
P. Scislo (Warsaw, PL)

12:45 - 13:45 Satellite Symposium

IZMIR

2D and 3D speckle tracking and fusion. Where are we and where do we go?

Sponsored by Toshiba Medical Systems

Chairpersons: J.L. Zamorano Gomez (Madrid, ES); T. Edvardsen (Oslo, NO)

You will learn the basical and dedicated clinical applications using transmural and 3D Speckle Tracking applications. You will also get an insight in the future of cardiac imaging using fusion of 3D Speckle tracking results combined with Cardiac CT data.

- 12:45 **3D speckle tracking, what have we learned so far and what is the future?** 330
N. Pandian (Boston, US)
- 13:05 **2D speckle tracking in non-STEMI.** 331
S.I. Sarvari (Gjettum, NO)
- 13:25 **The next step in cardiovascular imaging: CVI-Fusion. Merging 3D WMT ultrasound and cardiac CT.** 332
J.L. Zamorano Gomez (Madrid, ES)

14:00 - 15:30 Main Session

ANKARA

New insights of cardiac imaging in acute chest pain

Chairpersons: L.A. Piérard (Liège, BE); F.J. Pinto (Lisbon, PT)

Multimodality imaging

Imaging in Cardiovascular Intervention

- | | | |
|-------|--|-----|
| 14:00 | Speckle tracking echocardiography for the assessment of acute coronary syndromes. | 333 |
| | To be announced | |
| 14:22 | New insights in acute coronary syndromes derived from intracoronary imaging. | 334 |
| | A.N. Neskovic (Belgrade, RS) | |
| 14:45 | The role of imaging in acute chest pain in the era of high-sensitivity troponins. | 335 |
| | F.J. Pinto (Lisbon, PT) | |
| 15:07 | Stress cardiomyopathy: a clinical imaging challenge. | 336 |
| | F. Rigo (Mestre-Venice, IT) | |

14:00 - 15:30 Clinical Imaging

ISTANBUL

Atherosclerosis

Chairpersons: M.G. Sprynger (Liège, BE); S. Kownator (Thionville, FR)

Clinical Imaging

- | | | |
|-------|--|-----|
| 14:00 | Added value of carotid imaging in predicting cardiovascular risk. | 337 |
| | M.G. Sprynger (Liège, BE) | |
| 14:22 | New imaging modalities for carotid disease evaluation. | 338 |
| | F. Cesana (Milan, IT) | |
| 14:45 | Looking for cardiac calcifications. | 339 |
| | D. Messika-Zeitoun (Paris, FR) | |
| 15:07 | New insight from anti-atherosclerotic treatment: how to monitor? | 340 |
| | P.J. Touboul (Paris, FR) | |

14:00 - 15:30 Symposium

IZMIR

The next challenge in guiding intervention: 3D echo and image fusion Joint Session with the ESC Working Group on e-Cardiology



Chairpersons: S. Benyoussef (La Marsa, TN); N. Bruining (Rotterdam, NL)

- | | | |
|-------|---|------------|
| 14:00 | Multiview fused real-time TTE 3D echo to improve image quality. | 341 |
| | H.H. Becher (Edmonton, CA) | |
| 14:22 | Wide-view fusion of transoesophageal echocardiography echocardiography 3D echo datasets for atrial fibrillation catheter ablation support. | 342 |
| | J.G. Bosch (Rotterdam, NL) | |
| 14:45 | Stitching 3D transoesophageal echocardiography echocardiography images of descending aorta for atherosclerotic burden quantification. | 343 |
| | E.G. Caiani (Milan, IT) | |
| 15:07 | Intracardiac ultrasound and image fusion. | 344 |
| | D. Liang (Stanford, US) | |

14:00 - 15:30 Symposium

VAN

Assessment of left atrial size and function: role of advanced imaging



Chairpersons: C. Yosefy (Ashkelon, IL); P.P. Sengupta (New York, US)

- | | | |
|-------|--|------------|
| 14:00 | Is there a place for 3D echo? | 345 |
| | J. Necas (Brno, CZ) | |
| 14:22 | How to assess the left atrial function? | 346 |
| | G. Di Salvo (Riyadh, SA) | |
| 14:45 | Size or function in valvular heart disease? | 347 |
| | T. Le Tourneau (Nantes, FR) | |
| 15:07 | Size or function in cardiomyopathies? | 348 |
| | M. Rosca (Bucharest, RO) | |

14:00 - 15:30 Symposium

KONYA

Pitfalls and limitations of the evaluation of prosthetic valve

Joint session with the United Arab Emirates Working Group of Echocardiography

Chairpersons: V. Rigolin (Chicago, US); W.A. Almahmeed (Abu-Dhabi, AE)

- | | | |
|-------|--|-----|
| 14:00 | Physiologic versus pathologic prosthetic regurgitation. | 349 |
| | A. Salustri (Abu Dhabi, AE) | |
| 14:22 | From high flow-gradient to the diagnosis of prosthesis dysfunction. | 350 |
| | J.M. Almeida (Porto, PT) | |
| 14:45 | Prosthetic valve thrombosis versus pannus: how to differentiate it? | 351 |
| | P. Reant (Bordeaux-Pessac, FR) | |
| 15:07 | Role of stress echo in the diagnosis of prosthetic valve dysfunction. | 352 |
| | A. Agrawal (Fujairah, AE) | |

14:00 - 15:30 Abstract Session

BURSA

Non invasive evaluation of coronary artery disease

Chairpersons: A.N. Kitsiou (Athens, GR); L. Herbots (Hasselt, BE)

- | | | |
|-------|--|-----|
| | Panel of experts. | 353 |
| | D. Neglia (Pisa, IT); S. Plein (Leeds, GB) | |
| 14:00 | Myocardial perfusion imaging in non-stenotic coronary lesions: does it make sense? | 354 |
| | A. Kisko, M. Vereb (Presov, SK) | |
| 14:15 | Analysis of coronary CT angiography indications in symptomatic patients according 2006 and 2010 appropriate use Guidelines. | 355 |
| | M. Barreiro Perez, M. Martin Fernandez, O.C. Cimadevilla Fernandez, A. Renilla Gonzalez, E. Diaz Pelaez, J. Rozado Castano (Oviedo, Aviles and Mieres, ES) | |
| 14:30 | Predicting the incidence of CAD in CT coronary angiography based on the number of cardiac risk factors, ethnicity, sex and typicality of chest pain. | 356 |
| | P. Dobson, P. Cai, P. Leung, K. Marshall, M. Albarjas, T. Rogers, J. Hill, K. Alfakih (London, GB) | |
| 14:45 | A comparison between CT coronary angiography and functional tests, in patients with stable chest pain and moderate to high predicted risk of coronary artery disease. | 357 |
| | A. Cai, P. Dobson, P. Leung, K. Marshall, M. Albarjas, T. Rogers, S. Basu, K. Alfakih (London, GB) | |
| 15:00 | Diagnostic accuracy of multidetector computed tomography coronary angiography. | 358 |
| | D. Andreini, G. Pontone, S. Mushtaq, E. Bertella, E. Conte, A. Baggiano, A. Annoni, A. Formenti, C. Fiorentini, M. Pepi (Milan, IT) | |
| 15:15 | Editorial. | 359 |
| | L. Herbots (Hasselt, BE) | |

14:00 - 15:30 Teaching Course

MANISA

Cardiomyopathies and pericardial diseases

Joint session with the ESC Working Group on Cardiovascular Magnetic Resonance and the ESC Working Group on Nuclear Cardiology and Cardiac Computed Tomography.



Chairpersons: S. Qirko (Tirana, AL); M.S. Kucukoglu (Istanbul, TR)

Teaching courses are specifically dedicated to an audience aiming to improve its knowledge's, understanding and perfect its skills in a main topic of the Core curriculum of the EACVI.

- | | | |
|-------|--|------------|
| 14:00 | Left Ventricular hypertrophy: athletes vs hypertensive's heart vs hypertrophic cardiomyopathy. | 360 |
| | N. Van De Veire (Ghent, BE) | |
| 14:22 | Cardiovascular magnetic resonance/Computed tomography evaluation of left ventricular hypertrophy. | 361 |
| | A.M.G. Almeida (Lisbon, PT) | |
| 14:45 | Restrictive cardiomyopathy versus constrictive pericarditis. | 362 |
| | S. Kyrzopoulos (Athens, GR) | |
| 15:07 | Cardiovascular magnetic resonance/Computed tomography evaluation of pericardial disease. | 363 |
| | M.S. Kucukoglu (Istanbul, TR) | |

15:45 - 16:15 How-to Session

MANISA

How to perform basic statistics?

How-to session organised by EACVI Club 35



Chairperson: J. Magne (Liège, BE)

- | | | |
|-------|---------------------------|------------|
| 15:45 | Presenter: | 364 |
| | D.P. Leong (Hamilton, CA) | |

How-to session provide practical details and tools or tips and tricks on a specific topic related to the research. These sessions are built to help attendees to improve their experiences to complete successfully research project: from founding and grant application, to data analysis, results presentation and publication. The How-to session are definitely recommended to the EACVI club 35 members.

16:30 - 18:00 Main Session

ANKARA

Modern technics to assess left ventricular systolic function



Chairpersons: J.-W. Ha (Seoul, KR); D. Pellerin (London, UK)

Multimodality imaging Heart Failure

16:30	How to assess left ventricular systolic function by 2D Echo?	365
	P. Sogaard (Aalborg, DK)	
16:52	What's the use of real-time 3D?	366
	J. Kisslo (Durham, US)	
17:15	Is there still a role for nuclear techniques?	367
	A. Manrique (Caen, FR)	
17:37	Is magnetic resonance imaging really the gold standard?	368
	P. Thavendiranathan (Toronto, CA)	

16:30 - 18:00 Clinical Imaging

ISTANBUL

Infective endocarditis



Chairpersons: G. Van Camp (Brussels, BE); F. Thuny (Marseille, FR)

Clinical Imaging

16:30	Imaging in infective endocarditis.	369
	B. lung (Paris, FR)	
16:52	Pacemaker lead endocarditis.	370
	I. Vilacosta (Madrid, ES)	
17:15	Embolic risk.	371
	D.-H. Kang (Seoul, KR)	
17:37	Imaging as a guide for therapy.	372
	F. Thuny (Marseille, FR)	

16:30 - 18:00 Symposium

IZMIR

Imaging in intervention for structural heart disease

Joint session with the ESC Working Groups on Grown-up Congenital Heart Disease and the Association for European Paediatric and Congenital Cardiology (AEPC)



Chairpersons: L. Lopez (New York, US); A. Fraisse (Marseille, FR)

16:30	Closing septal communications.	373
	A. Fraisse (Marseille, FR)	
16:52	Implanting pulmonary valve.	374
	M. Chessa (San Donato Milanese, IT)	
17:15	Repairing left atrioventricular valve.	375
	J. Simpson (London, GB)	
17:37	Repairing right atrioventricular valve.	376
	J. Marek (London, GB)	

16:30 - 18:00 Symposium

VAN

The heart in systemic diseases: what does the echocardiographer need to know?

Joint session with Club 35 and ESC Cardiologists of Tomorrow



Chairpersons: F.J. Pinto (Lisbon, PT); L. Badano (Padua, IT)

16:30	Metabolic diseases.	377
	L. Ernande (Paris, FR)	
16:52	Endocrine diseases.	378
	R.C. Vidal Perez (Santiago De Compostela, ES)	
17:15	Storage diseases.	379
	D. Muraru (Padua, IT)	
17:37	Connective tissue disease.	380
	S. Zuily (Vandoeuvre Les Nancy, FR)	

16:30 - 18:00 Symposium

KONYA

Obesity: the good, the bad and the ugly

Chairpersons: T. Koliass (Ann Arbor, US); G. Maurer (Vienna, AT)

- | | | |
|-------|---|-----|
| 16:30 | Obesity-induced cardiomyopathy: does it really exist? an echo perspective. | 381 |
| | S. Parashar (Noida, IN) | |
| 16:52 | Mouse imaging and insights into the relationships between obesity, metabolism and heart failure. | 382 |
| | M. Scherrer-Crosbie (Boston, US) | |
| 17:15 | Obesity and aging's effects on the heart: are they so different. | 383 |
| | G.A. Derumeaux (Bron, FR) | |
| 17:37 | The effects of diet or bariatric surgery on cardiac function. | 384 |
| | To be announced | |

16:30 - 18:00 Abstract Session

BURSA

Role of imaging to predict left ventricular remodeling after acute myocardial infarction

Chairpersons: G. Athanassopoulos (Pireas, GR); M.J. Andrade (Lisbon, PT)

- | | | |
|-------|--|-----|
| | Panel of experts. | 385 |
| | S. Bakir (Abu Dhabi, AE); E. Picano (Pisa, IT); S. Price (London, GB) | |
| 16:30 | Xstrain 4d analysis is predictive of left ventricular remodeling after reperfusion therapy in patients with recent non-ST-segment elevation myocardial infarction. | 386 |
| | A.D. andrea, L. Riegler, E. Di Palma, F. Martone, R. Cocchie, R. Padalino, R. Calabro', P.I.O. Caso, M.G. Russo, E. Bossone (Naples and Milan, IT) | |
| 16:45 | Predictors of left ventricular remodelling assessed by cardiac magnetic resonance in patients with an ST-elevation myocardial infarction treated with primary coronary angioplasty. | 387 |
| | I. Buera Surribas, M. Mutuberria Urdaniz, J.F. Rodriguez Palomares, V. Pineda Sanchez, I. Otaegui Irurueta, L. Gutierrez Garcia-Moreno, A. Evangelista Masip, D. Garcia Dorado (Barcelona, ES) | |
| 17:00 | Prediction of recovery after primary coronary intervention in patients with STEMI. | 388 |
| | K. Hristova, T.Z. Katova, V. Kostova, I. Simova (Sofia, BG) | |
| 17:15 | Left ventricular sphericity as a determinant of the incidence of left ventricular thrombus after anterior myocardial infarction. | 389 |
| | S. Okino, J. Sugioka, A. Ikeda, J. Maekawa, S. Maekawa, S. Ichikawa, N. Kuroiwa, S. Okamoto, S. Fukuzawa, M. Inagaki (Funabashi, JP) | |
| 17:30 | Left ventricular torsion can predict reverse LV remodeling in patients with acute myocardial infarction. | 390 |
| | L. Spinelli, C. Morisco, K. Giudice, D. Castaldo, B. Trimarco (Naples, IT) | |
| 17:30 | Editorial. | 391 |
| | G. Athanassopoulos (Pireas, GR) | |

16:30 - 18:00 Teaching Course

MANISA

Valve diseases I



Chairpersons: A.S. Pearlman (Seattle, US); C. Ginghina (Bucharest, RO)

Teaching courses are specifically dedicated to an audience aiming to improve its knowledge's, understanding and perfect its skills in a main topic of the Core curriculum of the EACVI.

16:30	Grading aortic stenosis: tips and tricks.	392
	R. Dulgheru (Bucharest, RO)	
16:52	Mitral regurgitation: primary and secondary.	393
	J.-F. Avierinos (Marseille, FR)	
17:15	Tricuspid valve disease.	394
	P. Mahia (Madrid, ES)	
17:37	Combined and multivalvular diseases.	395
	R.S. Von Bardeleben (Mainz, DE)	

Thursday 12 December



CLUB 35 POSTERS

The European Association of Cardiovascular Imaging and the Scientific Programme Committee have decided to pursue this initiative aimed at putting a special focus on Young Researchers. You will find these posters, put forward by a flag, at the entrance of the Poster Area.



Come meet the young presenters!

All day Poster session

These Posters will be on display from 08:30 - 18:00.

Coffee Breaks 10:00 - 11:00 and 15:30 - 16:30 - Lunch break 12:30 - 14:00

Time to meet the presenters / interact, exchange around research presented and join the experts visiting the Club 35 Posters

Club 35 Poster Session 2 Page 63

MORNING SESSION

These Posters will be on display from 08:30 - 12:30

Coffee break 10:00 - 11:00

Time to meet the presenters / interact & exchange around research presented

Moderated Posters Session 3 (10:00 - 11:00) Page 66

Attend this session to hear flash presentation of the research by the presenters in front of moderators expert in the topics presented.

Poster Session 2 Page 67

Abstracts presentation by topic

AFTERNOON SESSION

These Posters will be on display from 14:00 - 18:00

Coffee break 15:30 - 16:30

Time to meet the presenters / interact & exchange around research presented

Moderated Posters Session 4 (15:30 - 16:30) Page 77

Attend this session to hear flash presentation of the research by the presenters in front of moderators expert in the topics presented.

Poster Session 3 Page 78

Abstracts presentation by topic

High Score Abstract

Look out for these abstracts acknowledged by the reviewing committee.



Missed a Presentation?

All posters, abstracts and slide presentations are available for viewing at the e-Library in the Poster Area.

After the congress, abstracts will be available online and a selection of slide presentations will be available only to EACVI Members. More information on the ESC-EACVI Stand.

Abstract presenters can consult the **POSTER ASSISTANCE DESK** for further information and to retrieve their Certificate of Presentation.

Important information for Presenters

Morning Sessions:

Poster presenters must set up Poster between 08:00 - 08:30.

All posters not affixed by 10:00 may be considered as no-show. Posters must be removed from the area between 12:30 - 13:00.

Afternoon Sessions:

Poster presenters must set up Poster between 13:30 - 14:00.

All posters not affixed by 15:00 may be considered as no-show. Posters must be removed from the area between 18:00 - 18:30.

Club 35 Poster with discussants



Club 35 Poster Session 2

Morning Club 35 Poster hosts 10:00 - 11:00

P396

A.N. Neskovic (Belgrade, RS); E. Donal (Rennes, FR); L. Herbots (Hasselt, BE);
E. Joyce (Leiden, NL); B.W. Michalski (Ksawerow, PL); J. Grapsa (London, GB)

Afternoon Club 35 Poster hosts 15:30 - 16:30.

P397

B. Cosyns (Braine Lalleud, BE); G. Di Salvo (Riyadh, SA); D. Messika-Zeitoun (Paris, FR);
L. Ernande (Paris, FR); M. Cameli (Siena, IT); A. Kovacs (Budapest, HU)

Predictors of residual mitral regurgitation after TAVI.

P398

M. Montoro Lopez, A.M. Iniesta Manjavacas, R. Mori Junco, L. Pena Conde,
I. Pons De Antonio, S. Garcia Blas, T. Lopez Fernandez, R. Moreno Gomez,
M. Moreno Yanguela, J.L. Lopez Sendon (Madrid, ES)

Atrial remodelling and peripheral artery ultrasonography: correlation between diastolic and endothelial function.

P399

A. Carro, A. Kiotsekoglou, J. Andoh, S. Brown, J.C. Kaski (London, GB)

Clinical features of systolic anterior motion of the mitral valve among patients without hypertrophic cardiomyopathy.

P400

Y. Imamura, K. Arai, S. Uematsu, K. Fukushima, H. Hoshi, K. Ashihara, A. Takagi,
N. Hagiwara (Tokyo, JP)

Integrated backscatter for the differentiation between aortic valve calcification and fibrosis.

P401

K. Gillis, G. Bala, B. Roosens, I. Remory, S. Droogmans, G. Van Camp, B. Cosyns
(Brussels, BE)

Quantitation of primary mitral regurgitation by 2D echocardiography and cardiovascular magnetic resonance.

P402

C.M. Van De Heyning, J. Magne, L.A. Piérard, P.J. Bruyere, L. Davin, C. De Maeyer,
B.P. Paelinck, C.J. Vrints, P. Lancellotti (Antwerp and Liège, BE)

Osteoprotegerin in patients with calcific aortic valve stenosis without heart failure.

P403

A. Borowiec, R. Dabrowski, I. Kowalik, B. Firek, T. Chwyczko, J. Janas, H. Szwed
(Warsaw, PL)

Lung ultrasound in the outpatient management of chronic heart failure patients without clinical signs of pulmonary congestion: subgroup analysis of a multicenter prospective randomized study.

P404

V. Tufaro, G. Fragasso, G. Ingallina, C. Marini, A. Fiscaro, F. Loiacono, A. Margonato,
E. Agricola (Milan, IT)

Quantification of left ventricular volumes and ejection fraction using manual and semiautomated echocardiographic methods in patients with acute myocardial infarction. Comparison with MRI.

P405

F. Ferreira, T.S. Pereira, J. Abreu, J. Labandeiro, A. Fiarresga, A.M. Ferreira, A. Galrinho,
L.M. Branco, A.T. Timoteo, R.C. Ferreira (lisboa, PT)

- Aortic stiffness predicts silent myocardial ischemia in asymptomatic type-2 diabetics.** P406
R. Marmol, M. Gomez, K. Garcia, D. Sanmiguel, C. Cabades, M. Monteagudo, C. Nunez, C. Fernandez, J.L. Diez, I. Roldan (Cartagena, Elche and Valencia, ES)
- Impact of nocturnal systemic hypertension on left ventricular myocardial deformation: a two-dimensional speckle-tracking echocardiography study.** P407
M.Y. Kolesnyk (Zaporizhzhya, UA)
- Predictors of disease progression in patients with calcific aortic stenosis.** P408
A. Borowiec, R. Dabrowski, I. Kowalik, B. Firek, T. Chwyczko, J. Janas, H. Szwed (Warsaw, PL)
- Dynamic variations of functional mitral regurgitation: implications for quantification using vena contracta width.** P409
C. Marini, V. Tufaro, M.B. Ancona, A. Fisicaro, M. Oppizzi, A. Margonato, E. Agricola (Milan, IT)
- Myocardial fibrosis and left ventricle geometry models in hypertensive patients.** P410
M. Krestjyaninov, V.A. Razin, R.H. Gimaev (Ulyanovsk, RU)
- Automated fusion of 3D TEE descending aortic datasets for improved examination and quantification of atheromas burden.** P411
M.C. Carminati, C. Piazzese, W. Tsang, R.M. Lang, E.G. Caiani (Milan, IT; Chicago, US)
- Cystatin c serum levels relationship with right chamber dimensions assessed by echocardiography in patients with pulmonary arterial hypertension.** P412
S. Goncalves, A. Ramalho, R. Placido, L. Marta, N. Cortez Dias, A. Magalhaes, M. Menezes, S. Martins, A. Almeida, A. Nunes Diogo (Lisbon and Santarem, PT)
- Pocket-size cardiac ultrasound in the hands of medical students improves diagnostic accuracy of bedside clinical examination.** P413
T.M. Stokke, V. Ruddox, S.I. Sarvari, J.E. Otterstad, E. Aune, T. Edvardsen (Oslo and Tonsberg, NO)
- 2D versus 3D echocardiography for left ventricular systolic function assessment before and after mitral repair for chronic mitral regurgitation: a prospective study.** P414
D. Pirone, V. De Francesco, F. Marino, G. Gervasi, C. Demartini, C. Goffredo, M.C. Bono, S. Mega, M. Chello, G. Di Sciascio (Rome, IT)
- Improvement of left ventricular systolic function assessed by bidimensional speckle tracking echocardiography after transcatheter aortic valve implantation: analysis of predictors.** P415
M. Martin Hidalgo, T. Seoane Garcia, F. Carrasco Avalos, M.D. Mesa Rubio, M. Delgado Ortega, M. Ruiz Ortiz, F. Mazuelos Bellido, J. Suarez De Lezo Herrero De Tejada, M. Pan Alvarez De Osorio, J. Suarez De Lezo Cruz Conde (Cordoba, ES)
- Impact of mitral valve morphology, evaluated by three-dimensional transesophageal echocardiography in mitral regurgitation reduction after mitraclip implantation.** P416
T. Seoane Garcia, M. Martin Hidalgo, F. Carrasco Avalos, M.D. Mesa Rubio, M. Ruiz Ortiz, M. Delgado Ortega, A. Lopez Granados, M. Romero Moreno, M. Pan Alvarez-Ossorio, J. Suarez De Lezo Cruz Conde (Cordoba, ES)
- Ventricular-arterial coupling and strain rate indices after cardiac resynchronization therapy: an acute echocardiographic study.** P417
F. Menichetti, M.G. Bongiorno, B. Ferro, L. Segreti, P. Bertini, R. Mariotti, R. Baldassarri, A. Di Cori, G. Zucchelli, F. Guarracino (Pisa, IT)

- Age related left ventricular twist and diastolic function in athletes; a speckle tracking study.** P418
A. Santoro, F.A. Federco Alvino, G.A. Giovanni Antonelli, R.D.V. Raffaella De Vito, R.M. Roberta Molle, S.M. Sergio Mondillo (Siena, IT)
- Prognostic value of left ventricular mechanical dyssynchrony assessment in patients with first acute anterior myocardial infarction and its correlation with infarct size and clinical outcome.** P419
Y. Mahmoud, M. Abdel-Kader, R. Guindy, S. Elzahwy (Cairo, EG)
- Aortic arch dimensions in very preterm infants.** P420
E.J. Dijkema, M.C. Molenschot, M.G. Slieker (Utrecht, NL)
- Hemodynamic outcomes of transcatheter aortic valve implantation with the corevalve system: an early assessment.** P421
C. Oliveira Da Silva, A. Sahlen, R. Winter, M. Back, A. Ruck, M. Settergren, A. Manouras, K. Shahgaldi (Stockholm and Lulea, SE)
- Atrial dilatation and NT-proBNP levels in patients with heart failure.** P422
M.V. Krestjyaninov, V.I. Ruzov (Ulyanovsk, RU)

10:00 - 11:00 - The prognostic value of myocardial deformation imaging in cardiomyopathy

Chairpersons: M. Scherrer-Crosbie (Boston, US); P. Sogaard (Aalborg, DK)

Prognostic value of 2D speckle tracking echocardiography in patients with ST segment elevation myocardial infarction. P423

H. Cakmak, E. Ural, T. Sahin, N. Al, E. Emre, E. Saracoglu, T. Akbulut, D. Ural (Kocaeli, TR)

Global longitudinal strain as a potential prognostic marker in patients with chronic heart failure. P424

I. Rangel, A. Goncalves, C. Sousa, J. Rodrigues, F. Macedo, J. Silva-Cardoso, M.J. Maciel (Porto, PT)

Tissue Doppler Imaging predicts unsuccessful cardiac rehabilitation after coronary artery bypass grafting. P425

L. Iliuta (Bucharest, RO)

A new tissue doppler index to predict cardiac death in patients with heart failure. P426

C. Mornos, D. Cozma, A. Mornos, I. Popescu, S. Pescariu, A. Ionac (Timisoara, RO)

Prognostic value of ventricular arterial coupling for predicting future cardiac death: 3D speckle tracking study. P427

Y. Nagata, M. Takeuchi, H. Kuwaki, A. Hasyashi, K. Otani, H. Yoshitani, Y. Osuji (Kitakyushu, JP)

Two-dimensional speckle-tracking echocardiography assessment of left ventricle and prognosis after acute myocardial infarction. P428

M. Haberk, J. Liszka, A. Kozyra, Z. Tabor, M. Finik, Z. Gasior (Katowice and Jaworzno, PL)

Mechanical dyssynchrony is a marker for ventricular arrhythmia in patients with cardiac resynchronization therapy. P429

N.E. Hasselberg, K.H. Haugaa, A. Brunet, E. Kongsgaard, E. Donal, T. Edvardsen (Oslo, NO; Rennes, FR)

Left ventricular dyssynchrony relates with myocardial fibrosis burden in patients with narrow QRS duration and left ventricular dysfunction. P430

A. Sugano, Y. Seo, K. Sato, A. Atsumi, M. Yamamoto, T. Machino, Y. Harimura, R. Kawamura, T. Ishizu, K. Aonuma (Tsukuba, JP)

Myocardial strain analysis by 2-dimensional speckle tracking echocardiography improves diagnostics of coronary artery stenosis in stable angina pectoris. (w) P431

T. Biering-Sorensen, S. Hoffmann, R. Mogelvang, A.Z. Iversen, T. Fritz-Hansen, J. Bech, J.S. Jensen (Copenhagen, DK)

Systolic and diastolic function by tissue doppler imaging predicts mortality in patients with atrial fibrillation. P432

M. Flarup Dons, T. Biering-Soerensen, J. Skov Jensen, T. Fritz Hansen, J. Bech, M. Chantal De Knecht, J. Sivertsen, R. Moeglvang (Hellerup, DK)

Poster session 2

The imaging examination

Every patient with atrial fibrillation deserves echocardiographic evaluation. P433

E. Abdovic, S. Abdovic (Zenica, BA)

The pocket hand held echocardiography is helpful and alternative method for assessing the large population of outpatients from experienced echocardiographer. P434

K. Hristova, K. Hristova, T.Z. Katova, T.Z. Katova, N. Gocheva, N. Gocheva, M. Pavlova, M. Pavlova (Sofia, BG)

Appropriateness of use criteria for transthoracic echocardiography: are they relevant outside the US? P435

M.M. Gurzun, A. Ionescu (Swansea, GB)

Assessment of diameters, volumes and mass

Does preprocedural left atrial fibrosis predict the reversibility of endothelial dysfunction with successful cryoablation in lone paroxysmal AF patients? P436

U. Canpolat, H. Yorgun, H. Sunman, L. Sahiner, E.B. Kaya, N. Ozer, L. Tokgozoglu, G. Kabakci, K. Aytemir, A. Oto (Ankara, TR)

Comparison of 3D-echocardiography and cardiac magnetic resonance for evaluation of right ventricular volume and function in patients with and without congenital heart disease:a meta-analysis. P437

A. Gonella, F.D.ascenzo, F. Casasso, E. Conte, F. Margaria, W. Grosso Marra, S. Frea, M. Morello, M. Bobbio, F. Gaita (Turin and Cuneo, IT)

Overestimation of left vntricular mss by calculation based on echocardiographic measurements in patients with left ventricular hypertrophy. P438

H.Y. Seo, S.P. Lee, J.M. Lee, Y.E. Yoon, E. Park, H.K. Kim, S.J. Park, H. Lee, Y.J. Kim, D.W. Sohn (Seoul, KR)

Comparison of three-dimensional speckle-tracking echocardiography and two dimensional echocardiography for evaluation of left atrial size and function in healthy volunteers. P439

A. Nemes, P. Domsik, A. Kalapos, A. Orosz, C. Lengyel, T. Forster (Szeged, HU)

Left atrial size and function in patients with chronic aortic regurgitation and normal left ventricular ejection fraction. A speckle-tracking echocardiography study. P440

R. Enache, D. Muraru, B.A. Popescu, A. Calin, O. Nastase, D. Botezatu, F. Purcarea, M. Rosca, C.C. Beladan, C. Gingham (Bucharest, RO; Padua, IT)

Restoration of left atrial structural and electrical reverse remodelling by successful cryoballoon AF ablation: manacling of the killer. P441

U. Canpolat, K. Aytemir, N. Ozer, H. Yorgun, L. Sahiner, E.B. Kaya, A. Oto (Ankara, TR)

Assessment of systolic function

Reference ranges for left ventricular geometry and function by 3D echocardiography using a vendor-independent software for quantitative analysis. P442

D. Muraru, E. Piasentini, S. Mihaila, S. Padayattil Jose', D. Peluso, L. Ucci, P. Naso, L. Puma, S. Illiceto, L.P. Badano (Padua, IT; Bucharest, RO)

Differential regional adaptation to acute left ventricular afterload increase with retained pericardial constraint. P443

M. Cikes, N. Jakus, G.R. Sutherland, P. Haemers, J.D.hooge, P. Claus (Zagreb, HR; Leuven, BE)

Subclinical left ventricular systolic dysfunction in patients with systemic lupus erythematosus: a speckle tracking and real time three dimensional echocardiographic study. P444

S. Yurdakul, F. Oner, H. Direskeneli, T. Sahin, B. Cengiz, G. Ercan, A. Bozkurt, S. Aytekin (Istanbul, TR)

Usefulness of tricuspid annular plane systolic excursion (TAPSE) in congenital heart disease: pressure overload vs. volume overload. P445

A.M. Osa Saez, M. Rodriguez-Serrano, R. Lopez-Vilella, F. Buendia-Fuentes, D. Domingo-Valero, A. Quesada-Carmona, V.E. Miro-Palau, M.A. Arnau-Vives, M. Palencia-Perez, J. Rueda-Soriano (Valencia, ES)

Late gadolinium enhancement cardiovascular magnetic resonance of the systemic right ventricle in adults following atrial redirection surgery. P446

M. Lipczynska, P.S. Piotr Szymanski, A.K. Anna Klisiewicz, L.M. Lukasz Mazurkiewicz, P.H. Piotr Hoffman (Warsaw, PL)

Incidence of right ventricular dysfunction on echocardiography and its impacts on hemodynamic burden as measured by natriuretic peptide in newly diagnosed dilated cardiomyopathy. P447

K.H. Kim, S.K. Cho, Y. Ahn, M.H. Jeong, J.G. Cho, J.C. Park (Gwangju, KR)

Impaired cardiac mechanics in children with chronic kidney disease: the 4C study. P448

M. Chinali, A. Franceschini, M.C. Matteucci, A. Doyon, C. Esposito, A. Del Pasqua, G. Rinelli, F. Schaefer (Rome, IT; Heidelberg, DE)

Correlation between high sensitive troponin T and echocardiographic parameters of the systemic RV function - a study in adults with congenitally corrected transposition of the great arteries. P449

E. Kowalik, A. Klisiewicz, J. Rybicka, P. Szymanski, E.K. Biernacka, P. Hoffman (Warsaw, PL)

2D global longitudinal strain demonstrates subclinical left ventricular systolic dysfunction in old patients receiving trastuzumab therapy. P450

S. Lee, W. Kim, H. Yun, L. Jung, E. Kim, J. Ko (Jeonju, KR)

A comparative study of 2 dimensional versus 3 dimensional echocardiography in a general hospital to evaluate systolic left ventricular function. P451

V. Ruddox, I.B. Norum, T. Edvardsen, M. Baekkevar, J.E. Otterstad (Toensberg and Oslo, NO)

Assessment of diastolic function

Which indices demonstrate changes in diastolic function during sub-maximal exercise testing? P452

T. Erdei, J. Edwards, D. Braim, Z. Yousef, A.G. Fraser (Cardiff, GB)

Left atrial volume and exercise capacity. P453

A. Melcher, B. Reiner, A. Hansen, L.E. Strandberg, K. Caidahl (Stockholm, SE)

Variance of segmental left atrial strain is impaired in patients treated by pulmonary vein isolation with late failure. P454

E. Wellnhofer, C. Kriatselis, H. Gerd-Li, V. Furundzija, U. Thnabalasingam, E. Fleck, M. Graefe (Berlin, DE)

Frequent premature ventricular contractions induces left atrial enlargement in patients with normal left ventricular ejection fraction.

P455

Y.J. Park, J.G. Moon, T.H. Ahn (Incheon, KR)

Stress echocardiography and nt-proBNP levels in patients with hypertrophic cardiomyopathy.

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Left ventricular adipose tissue in diabetic patients without myocardial infarction detected by multi-slice computed tomography is associated with left ventricular diastolic dysfunction.

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H. Toda, H. Oe, K. Osawa, T. Miyoshi, S. Ugawa, N. Toh, K. Nakamura, K. Kohno, H. Morita, H. Ito (Okayama, JP)

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S. El Ghannudi, P. Germain, H. Samet, M. Jeung, C. Roy, A. Gangi (Strasbourg, FR)

Computed Tomography & Nuclear cardiology

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Evaluation of association between fluoro-d-glucose positron emission tomography uptake with right ventricular functions in patients with chronic thromboembolic pulmonary hypertension.

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Does impaired brachial artery flow mediated dilatation correlate with clinical outcome of patients after acute myocardial infarction with normal coronary angiogram?

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The diagnostic accuracy of cardiac auscultation in the modern era of medicine.

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15:30 - 16:30 - Congenital heart disease

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Post-systolic shortening and circumferential strain as predictors of acute cellular rejection in patients with recent orthotopic cardiac transplantation during dobutamine stress echocardiography.

P648

I. Mordi, N. Tzemos, T. Stanton, D. Delgado, E. Yu (Glasgow, GB; Toronto, CA)

Detection of subclinical cardiac dysfunction in Marfan syndrome: the role of speckle tracking imaging.

P649

M. Drakopoulou, A.M. Gonzalez-Gonzalez, T. Karonis, I. Roussin, S. Babu-Narayan, L. Swan, R. Senior, W. Li (London, GB)

Left ventricular deformation assessed by 3D speckle tracking echocardiography (3STE) correlates with sympathetic innervations evaluated by [123I] metaiodobenzylguanidine ([123I]MIBG) in heart failure.

P650

V. Parisi, G. Pagano, T. Pellegrino, G.D. Femminella, C. De Lucia, R. Formisano, A. Cuocolo, P. Perrone Filardi, D. Leosco, G. Rengo (Naples, IT)

Apical traction as a sign of right ventricular dysfunction.

P651

S. Unlu, K. Farsalinos, K. Amelot, A. Daraban, A. Ciarka, M. Delcroix, J.U. Voigt (Leuven, BE)

Deformation imaging and long term outcome after mitral valve reconstruction: Preoperative longitudinal Strain Rate is a strong independent predictor of cardiac related morbidity and mortality.

P652

A. Miskovic, T.D. Poerner, B. Goebel, C.H. Stiller, A. Moritz (Frankfurt am Main and Jena, DE)

Evaluation of right atrial function using right atrial speckle tracking analysis in patients with pulmonary artery hypertension.

P653

K. Sakata, Y. Uesugo, G. Kimura, M. Ishiguro, K. Takemoto, T. Minamishima, M. Futuya, T. Satoh, H. Yoshino (Tokyo, JP)

Evaluation of endocardial dysfunction in patients with preserved ejection fraction after anthracycline therapy assessed by three-dimensional speckle tracking strain.

P654

T. Miyoshi, H. Tanaka, A. Kaneko, K. Matsumoto, J. Imanishi, Y. Motoji, Y. Mochizuki, H. Minami, H. Kawai, K. Hirata (Kobe, JP)

Correlation of LV longitudinal strain by 2D speckle tracking with cardiovascular risk in elderly from EGAT study.

P655

A. Wuththamanop, O. See, P. Vathesathokit, S. Yamwong, P. Sritara (Bangkok, TH)

Using echocardiography when monitoring inopressor treatment in cardiogenic shock. An experimental study in pigs.

P656

A. Rosner, A.B. Kildal, T.A. Stenberg, T. Myrmet, O.J. How (Tromsø, NO)

Left ventricular mechanical dispersion in short QT syndrome: improving risk stratification?

P657

M. Capriolo, S. Frea, C. Giustetto, C. Scrocco, S. Benedetto, W. Grosso Marra, M. Morello, F. Gaita (Turin, IT)

Computed tomography & nuclear cardiology

Influence of the presence of diabetes in cardiac innervation with 123I-MIBG scintigraphy in patients with heart failure and severe left ventricular systolic dysfunction.

P658

P. Garcia-Gonzalez, P. Cozar-Santiago, N. Chacon-Hernandez, M. Ferrando-Beltran, O. Fabregat-Andres, R. De La Espriella-Juan, C. Fontane-Martinez, R. Jurado-Sanchez, S. Morell-Cabedo, F. Ridocci-Soriano (Valencia, ES)

Diagnostic performance of 64-dual source multislice computed tomography in evaluation of degree of stenosis of coronary artery bypass grafts in diabetic and non diabetic patients.

P659

S. Mansy, M. Elbaz, A. Sharaf, I. Abdelaziz, M. Mansour, A. Abdelsamad, M. Abdelkader (Cairo, EG)

Miscellaneous

Dynamic changes of mitral annular geometry during the cardiac cycle - a three dimensional echo study in healthy volunteers.

P660

S. Mihaila, E. Piasentini, D. Muraru, D. Peluso, S. Casablanca, L. Puma, P. Naso, S. Iliceto, D. Vinereanu, L.P. Badano (Bucharest, RO; Padua, IT)

Long term effects of bariatric surgery on peripheral endothelial function and on coronary microvascular function.

P661

P. Tarzia, A. Villano, S. Figliozzi, G. Russo, R. Parrinello, P. Lamendola, A. Sestito, G.A. Lanza, F. Crea (Rome, IT)

Arterial stiffness and its relation to left ventricular mechanics in patients with chronic kidney disease and normal ejection fraction.

P662

S. Sulemane, V.F. Panoulas, A. Bratsas, A.H. Frankel, P. Nihoyannopoulos (London, GB)

Short-term effects of renal sympathetic denervation on left ventricular structure and function.

P663

H. Does, M.J. Andrade, M.S. Almeida, P.A. Goncalves, P. Branco, A. Gaspar, A. Gomes, E. Horta, M.S. Carvalho, M. Mendes (Lisbon, PT)

A study of the relationship between adventitial thickening and flow-mediated dilatation in metabolic syndrome patients.

P664

W.S. Yue, X.Y. Li, Y. Chen, Y. Luo, P. Gu, K.H. Yiu, C.W. Siu, H.F. Tse (Nanchong city, Sichuan province, CN; Hong Kong SAR, HK)

Lower fractional area change of left atrial appendage indicates future development of persistent atrial fibrillation in patients of lone paroxysmal atrial fibrillation.

P665

E.J. Cho, S.H. Lee, B.H. Hwang, D.B. Kim, S.W. Jang, H.K. Jeon, H.J. Youn, J.H. Kim (Seoul, KR)

The influence of repetitive occurrence of atrial fibrillation to left atrial function and structure.

P666

M.N. Kim, H.D. Kim, S.A. Kim, S.M. Park, S.W. Park, Y.H. Kim, W.J. Shim (Seoul, KR)

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Imaging Campus

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FRIDAY	09:00 - 10:30	11:00 - 12:30	14:00 - 15:30	16:00 - 17:30
IMAGING CAMPUS 1 Abbott Vascular and Philips Healthcare	Deep dive in understanding the Echo guidance for Percutaneous Mitral Valve Repair patients screening and procedure	Deep dive in understanding the Echo guidance for Percutaneous Mitral Valve Repair patients screening and procedure	Deep dive in understanding the Echo guidance for Percutaneous Mitral Valve Repair patients screening and procedure	Deep dive in understanding the Echo guidance for Percutaneous Mitral Valve Repair patients screening and procedure
IMAGING CAMPUS 2 GE Healthcare	Imaging myocardial mechanics - Clinical use of speckle tracking 2D strain, automated function imaging (AFI) and multilayer 2D strain	4D TEE in the CathLab and in the operating room Clinical application of 4D TEE for percutaneous structural heart interventions	Imaging myocardial mechanics Clinical applications of 2D strain imaging, left ventricular rotation and torsion assessment	Imaging myocardial mechanics - Clinical use of speckle tracking 2D strain, automated function imaging (AFI) and multilayer 2D strain
IMAGING CAMPUS 3 EACVI Club 35	Club 35 Workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners	Club 35 Workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners	Club 35 Workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners	Club 35 Workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners

**Sign up now in the Imaging Campus room
or at the Sponsor's Stand.**



09:30 - 10:30 **Deep dive in understanding the Echo guidance for Percutaneous Mitral Valve Repair patients screening and procedure**

Presenter: P. Nikolai (Mainz, DE)

11:00 - 12:30 **Deep dive in understanding the Echo guidance for Percutaneous Mitral Valve Repair patients screening and procedure**

Presenter: P. Nikolai (Mainz, DE)

14:00 - 15:30 **Deep dive in understanding the Echo guidance for Percutaneous Mitral Valve Repair patients screening and procedure**

Presenter: B. Plicht (Essen, DE)

16:00 - 17:30 **Deep dive in understanding the Echo guidance for Percutaneous Mitral Valve Repair patients screening and procedure**

Presenter: B. Plicht (Essen, DE)



Session objectives:

Understand the Percutaneous Mitral Valve Repair therapy: From screening to procedure and from technical to clinical aspects

Practice Percutaneous Mitral Valve Repair patients screening with TTE Echo Philips Ultrasound system

Interact with Percutaneous Mitral Valve Repair device



09:00 - 10:30 **Imaging myocardial mechanics - Clinical use of speckle tracking 2D strain, automated function imaging (AFI) and multilayer 2D strain**

Presenter: J.U. Voigt (Leuven, BE)

11:00 - 12:30 **4D TEE in the CathLab and in the operating room
Clinical application of 4D TEE for percutaneous structural heart interventions**

Presenter: V. Delgado (Leiden, NL)

14:00 - 15:30 **Imaging myocardial mechanics - Clinical applications of 2D strain imaging, left ventricular rotation and torsion assessment**

Presenter: B.A. Popescu (Bucharest, RO)

16:00 - 17:30 **Imaging myocardial mechanics - Clinical use of speckle tracking 2D strain, automated function imaging (AFI) and multilayer 2D strain**

Presenter: J.U. Voigt (Leuven, BE)



Session objectives:

During this session the participants will learn how to navigate and quantify Deformation Imaging (2D Strain) data sets. The learning objectives will focus on recognition of normal and abnormal anatomical structures and deformation patterns.

09:00 - 10:30

Club 35 Workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners

Presenters: S. Gianstefani (London, GB); B.A. Popescu (Bucharest, RO); S. Wright (London, GB)

11:00 - 12:30

Club 35 Workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners

Presenters: S. Mihaila (Bucharest, RO); F. Guarracino (Pisa, IT); A. Smith (Barnet, GB)

14:00 - 15:30

Club 35 Workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners

Presenters: K. Addetia (Chicago, US); K.F. Fox (London, GB); B. Martin (London, GB)

16:00 - 17:30

Club 35 Workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners

Presenters: M.M. Gurzun (Bucharest, RO); F. Flachskampf (Uppsala, SE); S. Giannaris (London, GB)



Session objectives:

Provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D transoesophageal echocardiography using modern training equipment (3D computer generated TOE simulator and workstation)

08:30 - 10:00 Main Session

ANKARA

Improving patient outcomes in cardiac resynchronization therapy

Chairpersons: J. Gorcsan (Pittsburgh, US); V. Delgado (Leiden, NL)

Heart Failure

- | | | |
|-------|--|------------|
| 08:30 | Echocardiographic guidance for left ventricular lead position in cardiac resynchronisation therapy. | 667 |
| | F.Z. Khan (Cambridge, GB) | |
| 08:52 | The emerging role for imaging dyssynchrony in cardiac resynchronisation therapy. | 668 |
| | J. Gorcsan (Pittsburgh, US) | |
| 09:15 | How to best image scar for cardiac resynchronisation therapy. | 669 |
| | L.E. Sade (Ankara, TR) | |
| 09:37 | Who should be optimised after cardiac resynchronisation therapy? | 670 |
| | C. Parsai (Toulon, FR) | |

08:30 - 10:00 Clinical Imaging

ISTANBUL

Pulmonary hypertension

Joint session with the ESC Working Group on Pulmonary Circulation and Right Ventricular Function

This session is supported by Actelion Pharmaceuticals Ltd in a form unrestricted educational form



Chairpersons: N. Galie (Bologna, IT); E. Bossone (Lauro, IT)

Clinical Imaging

- | | | |
|-------|--|------------|
| 08:30 | Adaptation of the right ventricle to increase afterload. | 671 |
| | D.L. Prior (Fitzroy, AU) | |
| 08:52 | Resting and exercise pulmonary hypertension: interpretation and prognosis usefulness? | 672 |
| | E. Bossone (Lauro, IT) | |
| 09:15 | 2D and 3D right ventricular remodeling. | 673 |
| | L. Rudski (Cote St Luc, CA) | |
| 09:37 | New advances in therapeutic options. | 674 |
| | S. Ghio (Pavia, IT) | |

08:30 - 10:00 Symposium

IZMIR

3D echo in clinical practice: better than 2D?

Joint session with the Bulgarian Working Group of Echocardiography



Chairpersons: Y.T. Yotov (Varna, BG); J.C. Mohan (New Delhi, IN)

08:30	Left ventricular function. K. Hristova (Sofia, BG)	675
08:52	Right ventricular function. To be announced	676
09:15	Valvular heart disease. F. Peters (Johannesburg, ZA)	677
09:37	Left atrium. P. Lipiec (Lodz, PL)	678

08:30 - 10:00 Symposium

VAN

Cardio-oncology: the new kid in town

Joint session with the American Society of Echocardiography.



Chairpersons: P. Pellikka (Rochester, US); T. Edvardsen (Oslo, NO)

Multimodality imaging

08:30	Are we overestimating the scope of the problem? M. Scherrer-Crosbie (Boston, US)	679
08:48	Left ventricular ejection fraction, maligned or overused? J.C. Plana (Cleveland, US)	680
09:06	Deformations indices- can we really use them clinically? M. Galderisi (Naples, IT)	681
09:24	Radiotherapy, what we have to watch for? B. Cosyns (Braine L'alleud, BE)	682
09:42	Use of computed tomography and magnetic resonance in cancer patients: when are they needed? T. Edvardsen (Oslo, NO)	683

08:30 - 10:00 Symposium

KONYA

The need for strain standardisation: where do we stand – What next?

Chairpersons: J.D. Thomas (Cleveland, US); B.H. Amundsen (Trondheim, NO)

- | | | |
|-------|--|-----|
| 08:30 | The nature of the problem: results of intervender testing in myocardial strain. | 684 |
| | L. Perez De Isla (Madrid, ES) | |
| 08:52 | Approach to strain harmonisation: proposed path and DICOM efforts. | 685 |
| | J.D. Thomas (Cleveland, US) | |
| 09:15 | Use of synthetic datasets and in vitro phantoms to drive unification. | 686 |
| | J.D.hooge (Leuven, BE) | |
| 09:37 | Plans for clinical testing. | 687 |
| | S. Nakatani (Takarazuka, JP) | |

08:30 - 10:00 Abstract Session

BURSA

Imaging in structural interventions

Chairpersons: M.A. Garcia Fernandez (Madrid, ES); M.J. Monaghan (London, GB)

- | | | |
|-------|--|-----|
| | Panel of experts. | 688 |
| | T. Buck (Essen, DE); F.F. Faletra (Lugano, CH) | |
| 08:30 | Defect shape contributes to the development of hemolysis in patients with severe mitral paravalvular leaks: a RT-3D TEE study. | 689 |
| | M. Kalcik, M.O. Gursay, M.A. Astarciglu, T. Gokdeniz, S. Karakoyun, B. Cakal, M. Yesin, G. Kahveci, M. Yildiz, M. Ozkan (Istanbul, TR) | |
| 08:45 | Does right appendage matter? incidence of right auricular thrombosis in persistent atrial tachyarrhythmias, a case-series prospective study. | 690 |
| | A. Cresti, F. Cesareo, F. Guerrini, E. Capati, G. Miracapillo, S. Severi (Grosseto, IT) | |
| 09:00 | Left atrial appendage closure monitored by intracardiac echography probe through oesophageal route. | 691 |
| | J. Ternacle, N. Lellouche, R. Gallet, J.-F. Deux, J.-L. Dubois-Rande, E. Teiger, P. Lim (Creteil, FR) | |
| 09:09 | Assessment of aortic annulus dimensions for SAPIEN transapical heart valve implantation: virtual ring method by three-dimensional transoesophageal echocardiography in comparison with CT scan. | 692 |
| | V. Polizzi, P.G. Pino, G. Luzi, R. Fiorilli, V. Buffa, C. Visconti, D. Bellavia, R. Violini, F. Musumeci (Rome, Palermo and Bergamo, IT) | |
| 09:30 | Reliability of anatomical assessment of aortic stenosis valvular area by means of real-time three-dimensional transesophageal echocardiography. | 693 |
| | D. Saura Espin, M.J. Oliva Sandoval, J. Gonzalez Carrillo, L. Caballero Jimenez, M.D. Espinosa Garcia, M. Garcia Navarro, M. Lopez Ruiz, M. Valdes Chavarri, G. De La Morena Valenzuela (Murcia, ES) | |
| 09:45 | Editorial. | 694 |
| | M.A. Garcia Fernandez (Madrid, ES) | |

08:30 - 10:00 Teaching Course

MANISA

Valve diseases II



Chairpersons: B. Chambers (London, GB); S. Carerj (Messina, IT)

Teaching courses are specifically dedicated to an audience aiming to improve its knowledge's, understanding and perfect its skills in a main topic of the Core curriculum of the EACVI.

08:30	Mitral stenosis: grading stenosis severity (2D/3D).	695
	C. Vazquez-Antona (Mexico, MX)	
08:52	Prosthetic valve dysfunction: stenosis or regurgitation.	696
	A. Hagendorff (Leipzig, DE)	
09:15	Infective endocarditis: insight from the EACVI recommendations.	697
	G. Habib (Marseille, FR)	
09:37	Aortic regurgitation.	698
	J.J. Gomez de Diego (Madrid, ES)	

10:00 - 11:00 Special Event

EACVI General Assembly



ISTANBUL

Led by Prof. Patrizio Lancellotti, EACVI President 2012-2014.
Get an update on future initiatives of your association.
All EACVI Members and EuroEcho-Imaging 2013 participants are invited to join!



10:15 - 10:45 How-to Session

MANISA

How to design and write a scientific research project?

How-to session organised by EACVI Club 35



Chairperson: L. Gargani (Pisa, IT)

10:15	Presenter.	699
	T.H. Marwick (Hobart, AU)	

How-to session provide practical details and tools or tips and tricks on a specific topic related to the research. These sessions are built to help attendees to improve their experiences to complete successfully research project: from founding and grant application, to data analysis, results presentation and publication. The How-to session are definitely recommended to the EACVI club 35 members.

11:00 - 12:30 Main Session

ANKARA

New insights in mitral regurgitation pathophysiology from imaging: implications for surgery and intervention

Chairpersons: R.M. Lang (Chicago, US); J. Magne (Liège, BE)

Imaging in Cardiovascular Intervention

11:00	Aortic-mitral inter-valvular coupling: should we consider the 2 valves as 1?	700
	R.M. Lang (Chicago, US)	
11:22	3D mitral valve quantification as the road map for mitral valve repair.	701
	M. Garbi (Bromley, GB)	
11:45	Predicting recurrence of functional mitral regurgitation in heart failure after annuloplasty: Does imaging help?	702
	A.P. Lee (Shatin, HK)	
12:07	Mitral leaflets in functional regurgitation: active player or passive bystander?	703
	E. Messas (Paris, FR)	

11:00 - 12:30 Clinical Imaging

ISTANBUL

Hypertrophic cardiomyopathy

Joint session with the Working Group on Myocardial and Pericardial Disease.



Chairpersons: N. Cardim (Lisbon, PT); B.F. Byrd (Nashville, US)

11:00	Echocardiographic evaluation.	704
	N. Cardim (Lisbon, PT)	
11:22	Role of other imaging techniques.	705
	J.L. Cavalcante (Pittsburgh, US)	
11:45	When to look for a secondary cardiomyopathy?	706
	C. Rapezzi (Bologna, IT)	
12:07	Indications for interventional therapies.	707
	A. Anastasakis (Athens, GR)	

11:00 - 12:30 Symposium

IZMIR

The Best in 2013: heart failure and imaging in interventional cardiology

Joint session with Club 35



Chairpersons: N. Van De Veire (Ghent, BE); D. Muraru (Padua, IT)

Multimodality imaging

11:00	Echocardiography in heart failure. A. Florian (Muenster, DE)	708
11:22	Multimodality imaging in heart failure. O. Gaemperli (Zurich, CH)	709
11:45	Imaging in valvular interventional cardiology. K. Addetia (Chicago, US)	710
12:07	Imaging in non-valvular interventional cardiology. E. Joyce (Leiden, NL)	711

11:00 - 12:30 Symposium

VAN

3D strain: welcome addition or another distraction?

Joint session with the Norwegian Working Group of Echocardiography



Chairpersons: H. Dalen (Levanger, NO); K. Matre (Bergen, NO)

11:00	What 3D strain is? Different approaches to measure myocardial deformation in 3D. P.P. Sengupta (New York, US)	712
11:22	Comparison of 2D and 3D strain estimation. T. Edvardsen (Oslo, NO)	713
11:45	Added diagnostic value of 3D strain after myocardial infarction. A. Stoylen (Trondheim, NO)	714
12:07	3D strain for evaluating left ventricular dyssynchrony. K. Matsumoto (Kobe, JP)	715

11:00 - 12:30 Symposium

KONYA

New perspective: when the blood flow becomes bright

Chairpersons: J.L. Zamorano Gomez (Madrid, ES); K. Takenaka (Tokyo, JP)

11:00	Intracardiac flow patterns: from normality to pathology.	716
	K. Itatani (Sagamihara, JP)	
11:22	Color Doppler based 2D flow analysis.	717
	G.R. Hong (Seoul, KR)	
11:45	2D blood flow: clinical experience.	718
	S. Kou (Liège, BE)	
12:07	Latest technology for 2D blood flow analysis.	719
	X. Zhou (Beijing, CN)	

11:00 - 12:30 Abstract Session

BURSA

Congenital heart diseases

Chairpersons: J. Marek (London, GB); L. Mertens (Toronto, CA)

	Panel of experts.	720
	L. Lopez (New York, US); W.A. Helbing (Rotterdam, NL); L. Sondergaard (Copenhagen, DK); C.J. McMahon (Dublin, IE)	
11:10	Three dimensional echocardiographic predictors of successful balloon dilation for congenital valvar aortic stenosis.	721
	A. Saxena, N. Khanna, S. Ramakrishnan, S. Gupta, S.S. Kothari, R. Juneja, V.K. Bahl (New Delhi, IN)	
11:15	Stiffness indices of the proximal aorta assessed by transthoracic echocardiography after tetralogy of Fallot repair: beyond aortic diameters.	722
	C. Cruz, A. Lebreiro, T. Pinho, C.C. Dias, J. Silva Cardoso, M. Julia Maciel (Porto, PT)	
11:30	Evaluation of knowledge-based reconstruction for magnetic resonance volumetry of the right ventricle after arterial switch operation for transposition of the great arteries.	723
	L. Grosse-Wortmann, E. Nyns, S.-J. Yoo, A. Dragulescu (Toronto, CA)	
11:45	Left ventricle/right ventricle interaction in youth population with D- Transposition of the great arteries- speckle tracking study.	724
	R. Marinov, K. Hristova, S.T. Georgiev, A. Kaneva, V. Pilosoff (Sofia, BG)	
12:00	Myocardial strain as measured by CMR relates to functional status, objective exercise capacity and neurohormonal levels in adults with congenitally corrected transposition of the great arteries.	725
	S. Orwat, G.P. Diller, R.M. Radke, P.B. Bauerschmitz, R.M. Schmidt, H. Baumgartner (Muenster, DE)	
12:15	Editorial.	726
	J. Marek (London, GB)	

11:00 - 12:30 Teaching Course

MANISA

Diseases of the aorta

Joint session with the ESC Working Group on Cardiovascular Magnetic Resonance and the ESC Working Group on Nuclear Cardiology and Cardiac Computed Tomography.



Chairpersons: L. Davin (Liège, BE); T. Forster (Szeged, HU)

Teaching courses are specifically dedicated to an audience aiming to improve its knowledge's, understanding and perfect its skills in a main topic of the Core curriculum of the EACVI.

11:00	Acute aortic syndrome: transoesophageal approach.	727
	A. Evangelista Masip (Barcelona, ES)	
11:22	Acute aortic syndrome: computed tomography/Cardiovascular magnetic resonance approaches.	728
	K. Nieman (Rotterdam, NL)	
11:45	Thoracic aortic dilatation and aneurysm: transesophageal approach.	729
	A.A. Pasquet (Brussels, BE)	
12:07	Thoracic aortic dilatation and aneurysm: computed tomography/ Cardiovascular magnetic resonance approaches.	730
	A. Nchimi (Liège, BE)	

12:45 - 13:45 Satellite Symposium

ISTANBUL

Imaging vulnerable plaque: from bench to bedside

Sponsored by SERVIER

Chairpersons: P. Lancellotti (Liège, BE); F.J. Pinto (Lisbon, PT)

12:45	Introduction. F.J. Pinto (Lisbon, PT)	731
12:49	Transition from coronary stability to instability. M.M. Degertekin (Istanbul, TR)	732
13:06	How to make the best diagnosis in coronary artery disease. J.L. Zamorano Gomez (Madrid, ES)	733
13:23	Can we MODIFY the chain of events? F.J. Pinto (Lisbon, PT)	734
13:40	Conclusion. P. Lancellotti (Liège, BE)	735

12:45 - 13:45 Satellite Symposium

VAN

Contrast echocardiography in CAD: understanding physiology and function

Sponsored by Bracco

Chairpersons: P. Nihoyannopoulos (London, GB)

12:45	Physiology of myocardial perfusion. S. Kaul (Portland, US)	736
13:05	Multi-parametric stress-echo using contrast. N. Gaibazzi (Parma, IT)	737
13:25	3D CEUS. H.H. Becher (Edmonton, CA)	738

14:00 - 15:30 Main Session

ANKARA

Assessment of acute heart failure: which imaging modalities?

Chairpersons: D. Pellerin (London, GB); S. Price (London, GB)

Multimodality imaging Heart Failure

14:00	Pulmonary embolism: echo in all?	739
	N. Mansencal (Boulogne-Billancourt, FR)	
14:22	Acute valvular regurgitation: is there a place for multi-imaging modalities?	740
	S. Price (London, GB)	
14:45	Myocarditis: cardiovascular magnetic resonance is the must?	741
	B.P. Paelinck (Edegem, BE)	
15:07	Should we invest in Pocket size echo.	742
	D. Pellerin (London, GB)	

14:00 - 15:30 Clinical Imaging

ISTANBUL

Thoracic aorta diseases

Chairpersons: K. Nieman (Rotterdam, NL); S. Catirli Enar (Istanbul, TR)

Clinical Imaging Multimodality imaging

14:00	Acute aortic syndrome: is transesophageal echocardiography the best approach?	743
	M.J. Andrade (Lisbon, PT)	
14:22	How to evaluate patients with aortic trauma?	744
	A. Evangelista Masip (Barcelona, ES)	
14:45	Imaging and therapeutic options?	745
	A. Nchimi (Liège, BE)	
15:07	Monitoring aortic endoprosthesis implantation.	746
	C. Thebault (Rennes, FR)	

14:00 - 15:30 Symposium

IZMIR

Heart failure with preserved ejection fraction - key role of imaging



Chairpersons: A.G. Fraser (Cardiff, GB); G. Bajraktari (Prishtina, KS)

14:00	Conventional echocardiographic characteristics.	747
	J.-C. Eicher (Dijon, FR)	
14:22	Value of deformation imaging?	748
	M. Galderisi (Naples, IT)	
14:45	Value of testing patients during an exercise.	749
	E. Donal (Rennes, FR)	
15:07	Value in the ventriculo arterial coupling.	750
	A.G. Fraser (Cardiff, GB)	

14:00 - 15:30 Symposium

VAN

Tricuspid regurgitation: pathophysiology and management

Chairpersons: P. Hoffman (Warsaw, PL); J. Mascherbauer (Vienna, AT)

14:00	Evaluation of the tricuspid valve by conventional echocardiography: advantages and limitations.	751
	P. Dehant (Bordeaux, FR)	
14:22	3D echo in the assessment of pathologies of the tricuspid valve: a diagnostic toy or a diagnostic tool?	752
	J.D. Kasprzak (Lodz, PL)	
14:45	Assessment of right ventricular function in patients with large tricuspid regurgitation.	753
	J. Mascherbauer (Vienna, AT)	
15:07	Surgical repair of the tricuspid valve. When and which procedure?	754
	E. Agricola (Segrate, IT)	

14:00 - 15:30 Symposium

KONYA

Echocardiography in refractory heart failure: mechanical circulatory support and heart transplantation



Joint session with the Hellenic Working Group on Echocardiology (HWGE)

Chairpersons: I.A. Paraskevaïdis (Athens, GR); A. Kranidis (Athens, GR)

- | | | |
|-------|--|-----|
| 14:00 | Patient selection for ventricular assist device implantation - Pitfalls and tribulations. | 755 |
| | D. Lovric (Zagreb, HR) | |
| 14:22 | Periprocedural echocardiography during assist device implantation - Potentials for complications. | 756 |
| | M.J. Van Dyck (Brussels, BE) | |
| 14:45 | Echocardiographic follow-up of patients with left ventricular and right ventricular assist devices. | 757 |
| | M. Dandel (Berlin, DE) | |
| 15:07 | Follow-up of heart transplantation. | 758 |
| | E. Leontiadis (Kallithea, GR) | |

14:00 - 15:30 Abstract Session

BURSA

2D strain in aortic stenosis: clinical impact

Chairpersons: N. Rajamannan (Chicago, US); P. Sogaard (Aalborg, DK)

- | | | |
|-------|--|-----|
| | Panel of experts. | 759 |
| | S. Carerj (Messina, IT); Y. Shapira (Reut, IL); K. Yiangou (Nicosia, CY); S. Aytekin (Istanbul, TR) | |
| 14:10 | Global and especially regional longitudinal function is associated with severity in moderate-severe aortic stenosis. | 760 |
| | H.G. Carstensen, L.H. Larsen, C. Hassager, K.F. Kofoed, C.B. Kristensen, J.S. Jensen, R. Mogelvang (Copenhagen, DK) | |
| 14:15 | Left ventricular basal longitudinal systolic dysfunction is a determinant of maximal exercise capacity in patients with asymptomatic aortic stenosis. | 761 |
| | R. Dulgheru, J. Magne, S. Kou, C. Machado, C. Henri, D. Voilliot, S. Laaraibi, L. Piérard, P. Lancellotti (Liège, BE) | |
| 14:30 | Prognostic value of longitudinal strain in patients with low-flow, low-gradient severe aortic stenosis despite preserved ejection fraction. | 762 |
| | K. Sato, Y. Seo, T. Ishizu, M. Takeuchi, M. Izumo, K. Suzuki, E. Yamashita, F. Miyake, Y. Otsuji, K. Aonuma (Tsukuba, Kitakyushu, Kawasaki and Maebashi, JP) | |
| 14:45 | Aortic valve replacement: longitudinal strain predicts left ventricular mass regression. | 763 |
| | C.M. Rao, F.A. Benedetto, F. Luca, L. Van Garsse, O. Parise, D. Benedetto, D. Aguglia, J.G. Maessen, G.F. Gensini, S. Gelsomino (Reggio Calabria, Marsala, Florence and Milan, IT; Maastricht, NL) | |

14:00 - 15:30 Abstract Session

BURSA

2D strain in aortic stenosis: clinical impact (continued)

- | | | |
|-------|---|-----|
| 15:00 | Recovery of left ventricular systolic function in different entities of aortic stenosis 12 months after TAVI: A 2 SD speckle tracking study. | 764 |
| | F. Knebel, S. Spethmann, G. Baldenhofer, W. Sanad, V. Stangl, M. Laule, H. Dreger, E. Mueller, G. Baumann, K. Stangl (Berlin, DE) | |
| 15:15 | Editorial. | 765 |
| | P. Sogaard (Aalborg, DK) | |

14:00 - 15:30 Teaching Course

MANISA

Advanced echo technique I: 3D echo



Chairpersons: J.R.T.C. Roelandt (Rotterdam, NL); K.H. Kim (Gwangju, KR)

Teaching courses are specifically dedicated to an audience aiming to improve its knowledge's, understanding and perfect its skills in a main topic of the Core curriculum of the EACVI.

- | | | |
|-------|--|-----|
| 14:00 | Assessment of left ventricular shape and function. | 766 |
| | P. Thavendiranathan (Toronto, CA) | |
| 14:22 | Assessment of right ventricular shape and function. | 767 |
| | S. Sengupta (Nagpur, IN) | |
| 14:45 | The left atrium in 3 dimension. | 768 |
| | S. Kovalova (Brno, CZ) | |
| 15:07 | Valve morphology: normal and pathological. | 769 |
| | J. Separovic Hanzevacki (Zagreb, HR) | |

15:45 - 16:15 How-to Session

MANISA

How to avoid pitfalls in original scientific papers?

How-to session organised by EACVI Club 35



Chairperson: G. Maurer (Vienna, AT)

- | | | |
|-------|-----------------------------|-----|
| 15:45 | Presenter. | 770 |
| | A.S. Pearlman (Seattle, US) | |

How-to session provide practical details and tools or tips and tricks on a specific topic related to the research. These sessions are built to help attendees to improve their experiences to complete successfully research project: from founding and grant application, to data analysis, results presentation and publication. The How-to session are definitely recommended to the EACVI club 35 members.

16:30 - 18:00 Main Session

ANKARA

Paravalvular aortic regurgitation after TAVI

Chairpersons: F. Maisano (Segrate, IT); E. Brochet (Paris, FR)

Multimodality imaging

Imaging in Cardiovascular Intervention

- | | | |
|-------|---|-----|
| 16:30 | Incidence and predictors of paravalvular aortic regurgitation in TAVI patients. | 771 |
| | L.D. Gillam (Morristown, US) | |
| 16:52 | Can we apply VARC2 criteria in TAVI patients for transthoracic 2D assessment of paravalvular aortic regurgitation? | 772 |
| | M.L. Geleijnse (Rotterdam, NL) | |
| 17:15 | Role of transoesophageal and/or 3-dimensional echocardiography in assessment of paravalvular aortic regurgitation. | 773 |
| | J.L. Zamorano Gomez (Madrid, ES) | |
| 17:37 | What can computed tomography do better than echocardiography in TAVI patients? | 774 |
| | D. Messika-Zeitoun (Paris, FR) | |

16:30 - 18:00 Clinical Imaging

ISTANBUL

Ischaemic heart disease

Chairpersons: A.N. Neskovic (Belgrade, RS); D. Neglia (Pisa, IT)

Clinical Imaging

- | | | |
|-------|--|-----|
| 16:30 | Acute chest pain and normal troponin. | 775 |
| | D. Tsiapras (Athens, GR) | |
| 16:48 | Chest pain in patient with negative exercise test. | 776 |
| | A.N. Neskovic (Belgrade, RS) | |
| 17:06 | Patients with chronic left ventricular ischaemic dysfunction. | 777 |
| | A.C. Van Rossum (Amsterdam, NL) | |
| 17:24 | Medical treatment or revascularization of stable coronary artery disease. | 778 |
| | D. Neglia (Pisa, IT) | |
| 17:42 | Role of imaging in assessing prognosis. | 779 |
| | S.R. Underwood (London, GB) | |

16:30 - 18:00 Clinical Imaging

IZMIR

Multiple valve disease in daily life

Clinical Pathways



Chairpersons: B. Iung (Paris, FR); N. De Michelis (Orange, US)

Clinical Imaging

Conference:

- | | | |
|-------|---|-----|
| 16:30 | How to manage multiple valve disease in clinical practice? | 780 |
| | P. Unger (Brussels, BE) | |

Difficult cases: reading with the experts:

- | | | |
|-------|---|-----|
| 16:52 | Aortic stenosis and aortic regurgitation. | 781 |
| | R. Rosenhek (Vienna, AT) | |
| 17:15 | Aortic stenosis and mitral regurgitation. | 782 |
| | M.L. Enriquez-Sarano (Rochester, US) | |
| 17:37 | Tricuspid regurgitation at the time of left-sided valve surgery. | 783 |
| | N. Ozer (Ankara, TR) | |

16:30 - 18:00 Special Session

VAN

The Best Outside Europe

Chairpersons: P. Lancellotti (Liège, BE); G. Habib (Marseille, FR)

- | | | |
|-------|--|-----|
| 16:30 | EuroEcho-Imaging Honorary Lecture: clinical application of vortex flow imaging using contrast echocardiography. | 784 |
| | G.R. Hong (Seoul, KR) | |
| 16:52 | Ischaemic mitral regurgitation: echocardiographically based approach and treatment. | 785 |
| | G. Restrepo (Medellin, CO) | |
| 17:15 | Reperfusion injury following percutaneous coronary intervention: role of Echo. | 786 |
| | J.C. Mohan (New Delhi, IN) | |
| 17:37 | Objective assessment of myocardial ischaemia using strain analysis. | 787 |
| | S. Nakatani (Takarazuka, JP) | |

16:30 - 18:00 Symposium

KONYA

New techniques in congenital heart disease

Joint session with the Association for European Paediatric and Congenital Cardiology (AEPC) and the American Society of Echocardiography (ASE)



Chairpersons: O. Miller (London, GB); P. Gutierrez-Fajardo (Guadalajara, MX)

- | | | |
|-------|---|-----|
| 16:30 | Invisible echocardiography: formation and deformation. | 788 |
| | M.K. Friedberg (Toronto, CA) | |
| 16:52 | Modelling and remodelling: virtual or real imaging? | 789 |
| | L. Lopez (New York, US) | |
| 17:15 | 3D navigation to interventions: where we are in congenital heart diseases? | 790 |
| | J. Simpson (London, GB) | |
| 17:37 | Stressing the heart: which modality and when? | 791 |
| | V. Muthurangu (London, GB) | |

16:30 - 18:00 Abstract Session

BURSA

New insights in heart muscle diseases

Chairpersons: J.R.T.C. Roelandt (Rotterdam, NL); M. Takeuchi (Kitakyushu, JP)

- | | | |
|-------|--|-----|
| | Panel of experts. | 792 |
| | A.S. Brown (Dublin, IE); J. Kisslo (Durham, US); S. Nagueh (Houston, US);
B.A. Popescu (Bucharest, RO) | |
| 16:30 | Three-dimensional left ventricular curvature: a new prognosticator of outcomes in non-ischemic dilated cardiomyopathy. | 793 |
| | W. Tsang, C.M. Abduch, I.S. Salgo, K. Appareti, W. Ackerman, V. Cruz, M. Lima, J. Tsutsui, W. Mathias Jr, R.M. Lang (Toronto, CA; Sao Paulo, BR; Andover and Chicago, US) | |
| 16:45 | Left ventricular involvement in arrhythmogenic right ventricular cardiomyopathy. | 794 |
| | A.J. Teske, T.P. Mast, J.A. Groeneweg, A.S. Te Riele, J.F. Van Der Heijden, B.K. Velthuis, R.N. Hauer, P.F. Doevendans, M.J.M. Cramer (Utrecht, NL) | |
| 17:00 | Imaging myocardial fibrosis in hypertrophic cardiomyopathy: comparison between echocardiography, deformation imaging, MRI, and serum biomarkers of myocardial fibrosis. | 795 |
| | J.C. Cautela, M.K. Krastevich, N.M. Michel, L.S. Saby, C.C. Copel, S.H. Hubert, J.F.A. Avierinos, F.T. Thuny, R.G. Guieu, G. Habib (Marseille, FR) | |
| 17:15 | Mitral valve abnormalities correlate with left ventricular remodelling and obstruction in hypertrophic cardiomyopathy: a quantitative 3D transthoracic echocardiographic study. | 796 |
| | D. Muraru, C. Calore, L.P. Badano, P. Melacini, S. Mihaila, P. Naso, S. Casablanca, A. Ortile, S. Padayattil Jose, S. Illiceto (Padua, IT; Bucharest, RO) | |

16:30 - 18:00 Abstract Session

BURSA

New insights in heart muscle diseases (continued)

- | | | |
|-------|--|------------|
| 17:30 | Echocardiographic mechanical dispersion is a marker of ventricular arrhythmias in Lamin A/C mutation positive subjects. | 797 |
| | N.E. Hasselberg, J. Saberniak, K.E. Berge, T. Edvardsen, K.H. Haugaa (Oslo, NO) | |
| 17:45 | Editorial. | 798 |
| | M. Takeuchi (Kitakyushu, JP) | |

16:30 - 18:00 Teaching Course

MANISA

Advanced echo techniques II: cardiac mechanics



Chairpersons: N. Liel-Cohen (Omer, IL); P. Nihoyannopoulos (London, GB)

Teaching courses are specifically dedicated to an audience aiming to improve its knowledge's, understanding and perfect its skills in a main topic of the Core curriculum of the EACVI.

- | | | |
|-------|---|------------|
| 16:30 | Tissue Doppler imaging and speckle tracking: general principles. | 799 |
| | D. Vinereanu (Bucharest, RO) | |
| 16:52 | Cardiac mechanics: rotation, torsion, twist, untwist. | 800 |
| | M. Vannan (Columbus, US) | |
| 17:15 | 3D strain: general principles. | 801 |
| | M. Galderisi (Naples, IT) | |
| 17:37 | Evaluation of cardiac dyssynchrony. | 802 |
| | M. Sitges (Barcelona, ES) | |

18:00 - 19:00 Special Session

ANKARA

Echo@Jeopardy

Chairpersons: P. Lancellotti (Liège, BE); J.L. Zamorano Gomez (Madrid, ES)

18:00	Local host Team.	803
	O. Tufekcioglu (Ankara, TR); N.S. Gullulu (Bursa, TR); M.S. Kucukoglu (Istanbul, TR); Z. Golbasi (Ankara, TR); D. Cicek (Mersin, TR); T. Sen (Kutahya, TR)	
18:15	EACVI Team.	804
	N. Cardim (Lisbon, PT); M.J. Monaghan (London, GB); A. Hagendorff (Leipzig, DE); M.A. Garcia Fernandez (Madrid, ES); I. Simova (Sofia, BG); B. Cosyns (Braine L'Alleud, BE)	
18:30	The rest of the world Team.	805
	X. Zhou (Beijing, CN); S. Mobasser (Atlanta, US); S. Bakir (Abu Dhabi, AE); S. Sengupta (Nagpur, IN); W. Mathias Jr (Sao Paulo, BR); E. Shkolnik (Moscow, RU)	
18:45	Case coordinators.	806
	O. Tufekcioglu (Ankara, TR); N. Cardim (Lisbon, PT); X. Zhou (Beijing, CN)	



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Friday 13 December



CLUB 35 POSTERS

The European Association of Cardiovascular Imaging and the Scientific Programme Committee have decided to pursue this initiative aimed at putting a special focus on Young Researchers. You will find these posters, put forward by a flag, at the entrance of the Poster Area.



Come meet the young presenters!

All day Poster session

These Posters will be on display from 08:30 - 18:00.

Coffee Breaks 10:00 - 11:00 and 15:30 - 16:30 - Lunch break 12:30 - 14:00

Time to meet the presenters / interact, exchange around research presented and join the experts visiting the Club 35 Posters

Club 35 Poster Session 3 Page 115

MORNING SESSION

These Posters will be on display from 08:30 - 12:30

Coffee break 10:00 - 11:00

Time to meet the presenters / interact & exchange around research presented

Moderated Posters Session 5 (10:00 - 11:00) Page 118

Attend this session to hear flash presentation of the research by the presenters in front of moderators expert in the topics presented.

Poster Session 4 Page 119

Abstracts presentation by topic

AFTERNOON SESSION

These Posters will be on display from 14:00 - 18:00

Coffee break 15:30 - 16:30

Time to meet the presenters / interact & exchange around research presented

Moderated Posters Session 6 (15:30 - 16:30) Page 129

Attend this session to hear flash presentation of the research by the presenters in front of moderators expert in the topics presented.

Poster Session 5 Page 130

Abstracts presentation by topic

High Score Abstract

Look out for these abstracts acknowledged by the reviewing committee.



Missed a Presentation?

All posters, abstracts and slide presentations are available for viewing at the e-Library in the Poster Area.

After the congress, abstracts will be available online and a selection of slide presentations will be available only to EACVI Members. More information on the ESC-EACVI Stand.

Abstract presenters can consult the **POSTER ASSISTANCE DESK** for further information and to retrieve their Certificate of Presentation.

Important information for Presenters

Morning Sessions:

Poster presenters must set up Poster between 08:00 - 08:30.

All posters not affixed by 10:00 may be considered as no-show. Posters must be removed from the area between 12:30 - 13:00.

Afternoon Sessions:

Poster presenters must set up Poster between 13:30 - 14:00.

All posters not affixed by 15:00 may be considered as no-show. Posters must be removed from the area between 18:00 - 18:30.

Club 35 Poster with discussants



Club 35 Poster Session 3

Morning Club 35 Poster hosts 10:00 - 11:00

P807

T. Edvardsen (Oslo, NO); R. Rosenhek (Vienna, AT); A.M. Iliesiu (Bucharest, RO); A. Kovacs (Budapest, HU); J. Grapsa (London, GB); M. Cameli (Siena, IT)

Afternoon Club 35 Poster hosts 15:30 - 16:30

P808

O. Tufekcioglu (Ankara, TR); V. Delgado (Leiden, NL); M.J. Andrade (Lisbon, PT); A. Perne (Mainz, DE); L. Gargani (Pisa, IT); I. Simova (Sofia, BG)

Subclinical cardiac involvement in systemic sclerosis assessed by speckle tracking strain analysis.

P809

A. Ben Abda, E. Hachulla, A.S. Polge, M. Richardson, A. Duva Penthia, P. De Groote, D. Moutaigne, N. Lamblin (Lille, FR)

Assessment of left ventricular systolic function by 2D strain echocardiography imaging in severe subarachnoid hemorrhage: analogy with Tako-Tsubo cardiomyopathy.

P810

M. Lamer, R. Cinotti, A. Delater, K. Asehnoune, Y. Blanloeil, T. Le Tourneau, B. Rozec, N. Piriou (Nantes, FR)

Echocardiographic predictor of acute heart failure after spine surgery: a novel tissue doppler index associated with a potentially fatal complication of the operation.

P811

J. Moon, T.H. Kim, T. Ahn, W.J. Chung (Incheon and Seoul, KR)

Prognostic significance of left ventricular longitudinal strain in patients with dilated cardiomyopathy.

P812

M. Chimura, T. Oonishi, Y. Tukishiro, S. Yamada, Y. Taniguchi, Y. Yasaka, T. Kawai (Himeji, JP)

Echocardiographic assessment of left ventricular mechanical dyssynchrony in heart failure patients with narrow and wide QRS complexes.

P813

A.M. Elmissiri (Cairo, EG)

Atrial characterization by cardio-rm. initial experience in patients with persistent vs paroxysmal atrial fibrillation: relationship with results of pulmonary vein isolation.

P814

A. Andres Lahuerta, P. Alonso Fernandez, B. Igual Munoz, J. Osca Asensi, O. Cano Perez, R. Jimenez Carreno, M.J. Sancho-Tello De Carranza, J. Olague De Ros, A. Salvador Sanz (Valencia, ES)

Left atrial volume and function in patients with systemic sclerosis by using three dimensional echocardiography.

P815

H. Atas, F. Samadov, A. Kepez, M. Sunbul, A. Cincin, H. Direskeneli, K. Tigen (Istanbul, TR)

Relationship between functional capacity and ultrasonic tissue characterization in patients with idiopathic dilated cardiomyopathy.

P816

A. Yildiz, M.F. Karakas, T. Cimen, A. Tuncce, A. Korkmaz, B. Uygur, A. Isleyen, O. Tufekcioglu (Diyarbakir, Hatay and Ankara, TR)

- Left ventricular systolic dysfunction in patients with acute myocarditis: echocardiographic and cardiac magnetic resonance predictors at admission and follow-up.** P817
F. Melao, M. Paiva, A. Goncalves, T. Pinho, A. Madureira, E. Martins, F. Macedo, M.J. Maciel (Porto, PT)
- Cardiac morphology and function in subjects living at moderately high altitude** P818
T.S. Guvenç, H.B. Erer, S. Kul, D. Oz, B. Koroglu, Y. Kaya, S. Koc, N. Sayar, A. Degirmencioglu, M. Eren (Kars, Istanbul and Hakkari, TR)
- A mathematical model of restrictive diastolic dysfunction.** P819
M. Stapor (Kraków, PL)
- Validation of 2D & 3D TEE measurement of prosthetic valve dimensions - implications for percutaneous valve in valve therapy.** P820
F. Condem, V. Bapat, S. Gianstefani, N. Catibog, M.J. Monaghan (London, GB)
- Bicuspid aortic valve with or without coarctation: does this association imply a different anatomic, functional or familial pattern?** P821
A. Carro, A. Pijuan, L. Dos, F. Huguet, C. Abad, N. Gonzalez, B. Miranda, L. Galian, J. Casaldaliga, A. Evangelista (Barcelona, ES)
- New tricks for old dogs: Could 3D echo reset our threshold for interventions?** P822
M.M. Gurzun, A. Ionescu (Bucharest, RO; Swansea, GB)
- Relation between glycosylated hemoglobin and aortic stiffness in type 2 diabetic patients.** P823
E. Kahraman, T. Sen, S. Guven, G. Keskin, S. Topaloglu, S. Korkmaz (tekirdag, kutahya, Yozgat and Ankara, TR)
- Echocardiographic findings during the Kawasaki disease.** P824
F. Moatemri, A. Mahdhaoui, H. Bouraoui, G. Jeridi, S. Ernez (Sousse, TN)
- Predictive role of left atrial and ventricular mechanical function in postoperative atrial fibrillation: a two-dimensional speckle-tracking echocardiography study.** P825
O. Basaran, G. Gozubuyuk, C. Dundar, O. Tasar, M. Bulut, T. Karaahmet, S. Pala, K. Tigen, A. Izgi, C. Kirma (Istanbul, TR)
- Left atrial function after dual chamber pacemaker implantation: one year follow up data.** P826
K. Baronaite-Dudoniene, L. Urbaite, V. Smalinskas, R. Veisaite, T. Vasylius, J. Vaskelyte, A. Puodziukynas (Kaunas, LT)
- Geometry of aortic root: impact on measurements.** P827
A. Carro, G. Teixido-Tura, J.F. Rodriguez-Palomares, H. Cuellar, V. Pineda, D. Gruosso, L. Gutierrez, S. Moral, M.T. Gonzalez-Alujas, A. Evangelista (Barcelona, ES)
- The value of novel echocardiographic methods in assessing the early improvement of left ventricular systolic function after autologous bone marrow stem cell therapy in anterior myocardial infarction.** P828
N. Oprescu, M. Micheu, L. Calmac, D. Pitic, M. Dorobantu (Bucharest, RO)
- Influence of the mitral valve anatomy on the proximal flow convergence region boundaries of the mitral regurgitation.** P829
N. Brugger, M. Huerzeler, K. Wustmann, A. Wahl, H. Steck, C. Seiler (Bern, CH)
- Tissue doppler imaging independently predicts haemodynamically significant coronary artery disease in patients with acute-onset chest pain.** P830
H. Ismail, J.J. Linde, K.F. Kofod, U. Diken, M. Soergaard, J.D. Hove (Copenhagen, DK)
- gender independant right ventricular measurements.** P831
J. Willis, D. Oxborough, D.X. Augustine, D. Knight, G. Coghlan, R. Shah, J. Easaw (Bath, Liverpool, Bristol and London, GB; Penang, MY)

Left ventricular diastolic function in men with obstructive sleep apnea and with or without arterial hypertension: a pilot study.

P832

R. Verseckaite, G. Pilkauskaite, T. Lapinskas, S. Miliauskas, R. Sakalauskas, R. Jurkevicius (Kaunas, LT)

Right ventricular outflow tract function in chronic heart failure.

P833

O. Ozeke, O. Turak, F. Ozcan, S. Cay, S. Topaloglu, D. Aras, O. Tufekcioglu, Z. Golbasi, S. Aydogdu (Ankara, TR)

10:00 - 11:00 - Cardiovascular computed tomography, magnetic resonance and nuclear imaging

Chairpersons: O. Gaemperli (Zurich, CH); P. Maurovich-Horvat (Budapest, HU)

CT-derived atrial and ventricular septal signs for risk stratification of patients with acute pulmonary embolism: clinical associations of CT-derived signs for prediction of mortality. P834

H.O. Jung, M.J. Kim, H.J. Youn (Seoul, KR)

Three-dimensional reconstruction of the left atrium and pulmonary veins in patients with atrial fibrillation: analysis using multi-slice tomography. P835

I. Wozniak-Skowerska, M. Skowerski, M. Skowerski, A. Hoffmann, A. Hoffmann, J. Kolasa, J. Kolasa, T. Skowerski, T. Skowerski, M. Sosnowski, M. Sosnowski, A.M. Wnuk-Wojnar, A.M. Wnuk-Wojnar, Z. Gasior, Z. Gasior, K. Mizia-Stec, K. Mizia-Stec (Katowice, PL)

The impact of coronary calcium on improvement over a year of diagnostic accuracy for coronary artery stenosis with low dose cardiac CT in 402 patients without previous coronary revascularisation. P836

H. Schirmer, S.H. Forsdahl, T. Sildnes, T. Trovik, A. Iqbal (Tromsø, NO)

Magnetic resonance feature tracking for the determination of right ventricular longitudinal strain. P837

M. Astrom Aneq, J.E. Engvall (Linköping, SE)

123 I-MIBG heart-mediastinum rate and washout: predictive factors of systolic and diastolic left ventricular function modification after CRT? P838

A. Abreu, L. Oliveira, G. Portugal, M. Goncalves, M. Mota Carmo, H. Santa Clara, T. Pereiro, M. Oliveira, L. Branco, R. Ferreira (Lisbon, PT)

Real-world relative utility of stress testing and coronary calcium score for the detection of coronary artery disease in prospective renal transplant recipients. P839

W.E. Moody, L. Sze Lin, N. Bloxham, H. Fraser, R.J. Taylor, B. Holloway, N.C. Edwards, C.J. Ferro, J.N. Townsend, R.P. Steeds (Birmingham, GB)

Relationship between carotid atherosclerotic disease and degree of coronary calcification, myth or reality? P840

G.O. Perea, M. Corneli, A.H. Meretta, M.E. Aguirre, D. Rosa, R. Henquin, R. Ronderos, N. Perez Balino (Buenos Aires, AR)

Comparison of multidetector computed tomography coronary angiography with conventional angiography in elderly and younger patients. P841

H. Sunman, H. Yorgun, L. Sahiner, B. Kaya, T. Hazirolan, N. Ozer, K. Aytemir, L. Tokgozoglu, G. Kabakci, A. Oto (Ankara, TR)

Risk stratification and optimal therapeutic approach in asymptomatic patients with high cardiovascular risk: the value of myocardial gated SPECT imaging. P842

I. Peovska, E. Srbinovska, E. Hristova, M. Otljanska, M. Bosevski, F. Arnaudova, V. Andova (Skopje, MK)

The influence of the arc and length of calcification to image quality of coronary MRA. P843

T. Iwaki (Yokohama, JP)

Poster session 4

Anatomy and physiology of the heart and great vessels

Is there any association between systemic vascular reactivity and pulmonary artery pressure in patients with common forms of pulmonary hypertension? P844

M. Gertsen (Minsk, BY)

Atopic dermatitis is associated with increased aortic stiffness. P845

A. Nemes, G. Szolnok, A. Altmayer, H. Gavaller, L. Kemeny, T. Forster (Szeged, HU)

Effects of cilostazol on arterial stiffness in patients undergoing percutaneous coronary intervention. P846

J.R. Park, S.Y. Jo, K.H. Kim, J.S. Kho, C.H. Kwack, J.Y. Hwang (Jinju, KR)

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- Insulin resistance, cardiovascular risk factors and cardiac remodeling in non diabetic patients.** P1034

F. Antonini-Canterin, A.D. Mateescu, S. La Carrubba, O. Vriz, V. Di Bello, S. Carerj, C. Zito, C. Gingham, B.A. Popescu, G.L. Nicolosi (Pordenone, Palermo, San Daniele del Friuli, Pisa and Messina, IT; Bucharest, RO)

- The impact of uric acid serum levels on carotid artery structure and stiffness.** P1035

A.D. Mateescu, S. La Carrubba, O. Vriz, V. Di Bello, S. Carerj, C. Zito, C. Gingham, B.A. Popescu, G.L. Nicolosi, F. Antonini-Canterin (Pordenone, Palermo, San Daniele del Friuli, Pisa and Messina, IT; Bucharest, RO)

- Liver cirrhosis: diastolic dysfunction is associated with elevation of high sensitive troponin t, fatty acid binding protein, haemodynamic abnormalities, and indicates poor survival.** P1036

R. Pudil, R. Praus, M. Vasatova, J. Vojacek, V. Palicka, P. Hulek (Hradec Kralove, CZ)

- Left ventricular function assessment by 3D-speckle tracking transthoracic echocardiography in patients with light chains amyloidosis.** P1037

S. Pradel, D. Mohy, T. Dany, N. Echahidi, D. Lavergne, P. Viot, V. Aboyans, A. Jaccard (Limoges and Creteil, FR)

The role of carotid artery stiffness in predicting left ventricular mass in hypertensive patients.

P1038

A.D. Mateescu, S. La Carrubba, O. Vriz, V. Di Bello, S. Carerj, C. Zito, C. Ginghina, B.A. Popescu, G.L. Nicolosi, F. Antonini-Canterin (Pordenone, Palermo, San Daniele del Friuli, Pisa and Messina, IT; Bucharest, RO)

Pericardial disease

CRP levels after acute reperfused myocardial infarction and the role of myocardial and pericardial injury.

P1039

C. Doulaftsis, R. Symons, A. Matos, A. Florian, P.G. Masci, S. Dymarkowski, S. Janssens, J. Bogaert (Leuven, BE; Muenster, DE; Pisa, IT)

A new scoring system in assessment and follow-up of neoplastic pericarditis.

P1040

C. Lestuzzi, A. Moreo, S. Celik, C. Lafaras, D. Dequanter, W. Tomkowski, M. De Biasio, E. Cervasato, L. Massa, M. Imazio (Aviano, Milan, Udine, Pordenone, Trieste and Turin, IT; Istanbul, TR; Thessaloniki, GR; Montigny le Tilleul, BE; Warsaw, PL)

Congenital heart disease

Factors related to residual shunt after transcatheter closure of atrial septal defect.

P1041

N. Watanabe, Y. Kijima, T. Akagi, N. Toh, H. Oe, K. Nakagawa, Y. Tanabe, M. Ikeda, K. Okada, H. Ito (Okayama, JP)

Surgical reconstruction of congenital mitral valve dysplasia: a tissue doppler imaging study in long-term follow-up.

P1042

O. Milanese, R. Biffanti, E. Varotto, A. Cerutti, E. Reffo, B. Castaldi, N. Maschietto, V.L. Vida, M. Padalino, G. Stellin (Padua, IT)

Impact of prenatal diagnosis and outcomes of fetuses with tricuspid atresia single centre experience.

P1043

R. Bejiqi, R. Retkoceri, H. Bejiqi, A. Retkoceri, S.H. Surdulli (Prishtina, KS)

Pediatric echocardiography in Djibouti (Horn of Africa): a first report.

P1044

P.L. Massoure, J. Cautela, N.C. Roche, M.C. Chenilleau, J.M. Gil, L. Fourcade (Marseille, FR; Djibouti, DJ)

Masses, tumors and sources of embolism

Recurrent giant left atrial myxoma with dual coronary supply in a patient with recurrent stroke.

P1045

A. Akhundova, A. Cincin, M. Sunbul, I. Sari, M.K. Tigen, Y. Basaran (Istanbul, TR)

8-Year-Analysis of the detection rate of vegetations by Transesophageal Echocardiography (TOE) as first line diagnostic tool for infective endocarditis.

P1046

G. Suermececi, T. Butz, I.C. Schilling, B. Sasko, J. Liebeton, M. Van Bracht, S. Tzikas, M.W. Prull, R. Wennemann, H.J. Trappe (Herne, DE)

Predictors of left atrial appendage thrombus formation in 720 patients with atrial fibrillation undergoing transesophageal echo prior pulmonary vein isolation, cardioversion or device occlusion.

P1047

C.H. Attenhofer Jost, M. Pfyffer, C. Scharf, B. Seifert, A. Faeh-Gunz, B. Naegeli, R. Candinas, A. Medeiros-Domingo (Zurich, CH)

Stress echocardiography

The loss of the significant correlation between triplane left ventricular ejection fraction (EF) and automated function imaging (AFI) during peak stage of dobutamine stress echocardiography (DSE).

P1048

K. Wierzbowska-Drabik, N. Roszczyk, M. Sobczak, M. Plewka, R. Krecki, J.D. Kasprzak (Lodz, PL)

Impaired endothelial glucocalyx is related with abnormal arterial and coronary function in patients with psoriasis.

P1049

I. Ikonomidis, M. Varoudi, E. Papadavid, K. Theodoropoulos, I. Papadakis, G. Pavlidis, H. Triantafyllidi, M. Anastasiou - Nana, D. Rigopoulos, J. Lekakis (Athens, GR)

Transoesophageal atrial pacing stress echocardiography in patients with unstable symptomatic carotid artery disease before carotid surgery.

P1050

O. Tereshina, E. Surkova, A. Vachev (Samara, RU)

Evaluating long-term major cardiovascular events in patients low-intermediate risk chest pain and receiving an exercise echocardiogram.

P1051

G. Merchan Ortega, J.C. Bonaque Gonzalez, A.D. Sanchez Espino, N. Bolivar Herrera, D. Bravo Bustos, I. Ikuta, M.J. Aguado Martin, F. Navarro Garcia, F. Ruiz Lopez, M. Gomez Recio (Almeria, ES; Norwalk, US)

Safety of discharging patients after an episode of low-intermediate risk chest pain with a negative exercise echocardiogram.

P1052

G. Merchan Ortega, J.C. Bonaque Gonzalez, D. Bravo Bustos, A.D. Sanchez Espino, N. Bolivar Herrera, J.J. Bonaque Gonzalez, F. Navarro Garcia, M.J. Aguado Martin, M.F. Ruiz Lopez, M. Gomez Recio (Almeria, ES)

Transesophageal echocardiography

Structural analysis of valve deterioration long after stentless aortic bioprosthesis replacement by three-dimensional transesophageal echocardiography.

P1053

H. Eguchi, T. Maruo, K. Endo, K. Nakamura, S. Eguchi, K. Yokota, Y. Fuku, T. Komiya, K. Kadota, K. Mitsudo (Okayama, JP)

Structural analysis of valve deterioration long after stentless aortic bioprosthesis replacement by three-dimensional transesophageal echocardiography.

P1054

H. Eguchi, T. Maruo, K. Endo, K. Nakamura, K. Yokota, Y. Fuku, H. Yamamoto, T. Komiya, K. Kadota, K. Mitsudo (Okayama, JP)

Contrast echocardiography

Both speckle tracking and tissue Doppler based deformation analysis are feasible during contrast dobutamine stress echocardiography.

P1055

A.I. Nagy, A.I. Manouras, E. Gunyeli, K. Shahgaldi, R. Winter (Budapest, HU; Stockholm, SE)

Interobserver variability on systolic LV function - A multicenter comparison of cineventriculography, magnetic resonance imaging, unenhanced and contrast enhanced 2D and 3D echocardiography.

P1056

R. Hoffmann, G. Barletta, S. Von Bardeleben, J. Kasprzak, C. Greis, J. Vanoverschelde, H. Becher (Aachen, Mainz and Konstanz, DE; Florence, IT; Lodz, PL; Brussels, BE; Alberta, CA)

Tissue Doppler and speckle tracking

Regression of noncompacted myocardial layer is associated with improvement in left ventricular ejection fraction in patients with left ventricular noncompaction cardiomyopathy.

P1057

M. Minamisawa, J. Koyama, A. Kozuka, H. Motoki, A. Izawa, T. Tomita, Y. Miyashita, U. Ikeda (Matsumoto, JP)

Serial apical deformation change is predictive of outcome in patients with cardiac amyloidosis.

P1058

K. Hu, D. Liu, M. Niemann, S. Herrmann, M. Cikes, P.D. Gaudron, S. Knop, G. Ertl, B. Bijlens, F. Weidemann (Wurzburg, DE; Zagreb, HR; Barcelona, ES)

Cardiac mechanics in patients after arterial switch operation: a speckle tracking echocardiography study.

P1059

G. Di Salvo, Z. Al Bulbul, Z. Issa, A.M. Khan, A.A. Faiz, S.H. Rahmatullah, B.M. Fadel, G. Siblini, M. Al Fayyadh (Riyadh, SA)

Right ventricular myocardial deformation: differences between corrected tetralogy of fallot and atrial septal defects.

P1060

M.E. Menting, A.E. Van Den Bosch, J.S. Mcghie, J.A.A.E. Cuypers, M. Witsenburg, B.M. Van Dalen, M.L. Geleijnse, J.W. Roos-Hesselink (Rotterdam, NL)

Diagnosing atrial fibrillation in cerebrovascular ischemia with tissue doppler imaging and 2-dimensional speckle tracking echocardiography.

P1061

F.J. Olsen, P.G. Jorgensen, R. Mogelvang, J.S. Jensen, T. Fritz-Hansen, J. Bech, T. Biering-Sorensen (Hellerup, DK)

Decreased left atrial longitudinal strain and stiffness reflects left atrial remodeling in patients with paroxysmal atrial fibrillation.

P1062

G. Agoston, R. Pap, L. Saghy, T. Forster, A. Varga (Szeged, HU)

Three-dimensional speckle-tracking echocardiography in patients undergoing mitral valve repair with the mitracclip system.

P1063

S. Scandura, D. Capodanno, F. Dipasqua, S. Mangiafico, A.M. Caggegi, C. Grasso, A.M. Pistrutto, S. Imme', M. Ministeri, C. Tamburino (Catania, IT)

Left atrial function and invasive measurement of left ventricular end diastolic pressure in patients stratified for different values of ejection fraction.

P1064

M. Cameli, M. Lisi, F.D. ascenzi, P. Cameli, M. Losito, S. Sparla, S. Lunghetti, R. Favilli, M. Fineschi, S. Mondillo (Siena, IT)

Persistent left atrial mechanical dysfunction in supraventricular arrhythmias.

P1065

Z. Ojaghihaghighi, B. Javani, M. Haghighi, H. Moladoust, S. Shahrzad, B. Ghadrdoost (Tehran, IR)

Evolution of left ventricular systolic function after acute myocardial infarction assessed by 3D speckle tracking echocardiography.

P1066

M. Altman, A. Aussoleil, C. Bergerot, E. Bonnefoy-Cudraz, G.A. Derumeaux, H. Thibault (Lyon, FR)

2D-strain imaging is useful for assessing cardiotoxicity during chemotherapy and effectiveness of prevention strategies.

P1067

E. Shkolnik, Y. Vasyuk, V. Nesvetov, L. Shkolnik, G. Varlan (Moscow, RU)

Left atrial velocity vector imaging in patients with paroxysmal atrial fibrillation. relationship between strain, volume and emptying fraction.

P1068

N. Gronkova, E. Kinova, A. Borizanova, A. Goudev (Sofia, BG)

Assessment of left atrial appendage function by 2-dimensional speckle-tracking imaging in transesophageal echocardiography.

P1069

E. Saracoglu, D. Ural, T. Sahin, N. Al, H. Cakmak, T. Akbulut, K. Akay, E. Ural (Kocaeli, TR)

Computed tomography & nuclear cardiology

Prognostic value of CT angiography in coronary bypass patients: a 73 months follow up study.

P1070

S. Mushtaq, D. Andreini, G. Pontone, E. Bertella, E. Conte, A. Baggiano, A. Annoni, A. Formenti, C. Fiorentini, M. Pepi (Milan, IT)

Comparison of left ventricle (LV) volume assessment by 2D echocardiography (2DE) with volumetric analysis by prospective, broad detector, mid-diastolic, computed tomography coronary angiography.

P1071

C. Cosgrove, L. Carr, C. Chao, A. Dahiya, S. Prasad, J.F. Younger (Brisbane, AU)

Miscellaneous

The left atrium emptying fraction improves diagnosis of paroxysmal atrial fibrillation after cryptogenic ischemic stroke.

P1072

T. Biering-Sorensen, L.M. Christensen, D.W. Krieger, R. Mogelvang, J.S. Jensen, S. Hojberg, N. Host, F.M. Karlsen, H. Christensen (Copenhagen, DK)

Role of perioperative echocardiographic assessment during ventricular assist device implantation.

P1073

A. Medressova, L. Abikeyeva, S. Dzhetybayeva, S. Andossova, Y. Kuatbayev, M. Bekbossynova, S. Bekbossynov, Y. Pya (Astana, KZ)

Effects of electronic cigarette use on the elastic properties of the ascending aorta in healthy subjects: comparison with the effects of tobacco cigarettes.

P1074

K. Farsalinos, D. Tsiapras, S. Kyrzopoulos, A. Spyrou, C. Stefopoulos, G. Romagna, K. Tsimopoulou, M. Tsakalou, V. Voudris (Athens, GR; Verbania, IT)

Prognostic factors in asymptomatic severe aortic stenosis at 6,12 and 18 months.

P1075

A. Cacicedo, S. Velasco Del Castillo, A. Anton Ladislao, U. Aguirre Larracochea, J. Onaindia Gandarias, A. Romero Pereiro, X. Arana Achaga, G. Zugazabeitia Irazabal, E. Laradogoitia Zaldumbide, I. Lekuona Goya (Galdakao, ES)

Gender and age differences on cardiac and vascular function of ApoE-/-mice.

P1076

A. Varela, S. Kotsovilis, M. Salagianni, V. Andreacos, C.H. Davos (Athens, GR)

Diagnostic and therapeutic value of a transthoracic echocardiogram in stroke patients.

P1077

G. Merchan Ortega, J.C. Bonaque Gonzalez, A.D. Sanchez Espino, N. Bolivar Herrera, J.J. Macancela Quinones, I. Ikuta, R. Ferrer Lopez, S. Munoz Troyano, D. Bravo Bustos, M. Gomez Recio (Almeria, ES; Norwalk, US)

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08:30 - 10:00 Clinical Imaging

ANKARA

Diastole in clinical practice

Clinical pathways



Chairpersons: B.A. Popescu (Bucharest, RO); T. Uejima (Tokyo, JP)

Conference:

- 08:30 **The diastology in daily clinical practice.** 1078
T. Kukulski (Zabrze, PL)

Reading with the experts: challenging cases in evaluation of diastolic function

- 08:45 **Constrictive vs. Restrictive?** 1082
A.S. Brown (Dublin, IE)
- 09:00 **The patient with left ventricular dysfunction.** 1080
F. Flachskampf (Uppsala, SE)
- 09:15 **The patient with heart valve disease.** 1081
J.E. Moller (Odense, DK)
- 09:30 **The patient with atrial fibrillation.** 1079
A.M. Iliesiu (Bucharest, RO)

08:30 - 10:00 Symposium

ISTANBUL

Bicuspid aortic valve

Joint session with the ESC Working Group on Valvular Heart Disease.



Chairpersons: R. Rosenhek (Vienna, AT); C. Tribouilloy (Amiens, FR)

Multimodality imaging

- 08:30 **Prevalence, genetics and natural history.** 1083
C.M. Otto (Seattle, US)
- 08:52 **Echocardiographic assessment.** 1084
A. Evangelista Masip (Barcelona, ES)
- 09:15 **The growing role of multimodality imaging.** 1085
E. Donal (Rennes, FR)
- 09:37 **Is conservative surgery possible?** 1086
G. El Khoury (Brussels, BE)

08:30 - 10:00 Symposium

IZMIR

Cardiac imaging: first ever showing cases!

Chairpersons: E. Plonska-Gosciniak (Szczecin, PL); M.L. Enriquez-Sarano (Rochester, US)

08:30	Case from France & EACVI Club 35. A. Bernard (La Riche, FR)	1087
08:42	Case from Poland & EACVI Club 35. B.W. Michalski (Ksawerow, PL)	1088
08:55	Case from Greece. G. Karatasakis (Athens, GR)	1089
09:08	Case from Hungary. A. Varga (Szeged, HU)	1090
09:21	Case from Italy. To be announced	1091
09:34	Case from Turkey. O. Tufekcioglu (Ankara, TR)	1092
09:47	Case from Russia. S. Matskeplishvili (Moscow, RU)	1093

08:30 - 10:00 Teaching Course

VAN

Advanced echo techniques III: miscellaneous



Chairpersons: R. Senior (London, GB); T.G. Restrepo (Medellin, CO)

Teaching courses are specifically dedicated to an audience aiming to improve its knowledge's, understanding and perfect its skills in a main topic of the Core curriculum of the EACVI.

08:30	Stress echocardiography in valve disease. L.A. Piérard (Liège, BE)	1094
08:52	Contrast echocardiography: current applications. R. Senior (London, GB)	1095
09:15	3D intra-cardiac echocardiography. G. Habib (Marseille, FR)	1096
09:37	Echo guiding percutaneous procedures. F.F. Faletra (Lugano, CH)	1097

10:15 - 10:45 How-to Session

IZMIR

How to use e-learning in cardiac imaging?

How-to session organised by EACVI Club 35



Chairpersons: B. Cosyns (Braine L'Alleud, BE)

10:15 **Presenter.**

1098

J.J. Gomez de Diego (Madrid, ES)

How-to session provide practical details and tools or tips and tricks on a specific topic related to the research. These sessions are built to help attendees to improve their experiences to complete successfully research project: from founding and grant application, to data analysis, results presentation and publication. The How-to session are definitely recommended to the EACVI club 35 members.

11:00 - 12:30 Special Session

ANKARA

EuroEcho-Imaging Highlights



Chairpersons: P. Lancellotti (Liège, BE); G. Habib (Marseille, FR)

- | | | |
|-------|---|------|
| 11:00 | Heart failure. | 1099 |
| | E. Donal (Rennes, FR) | |
| 11:15 | Valvular heart disease. | 1100 |
| | J. Magne (Liège, BE) | |
| 11:30 | 3D echocardiography. | 1101 |
| | B. Cosyns (Braine L'Alleud, BE) | |
| 11:45 | Congenital heart diseases. | 1102 |
| | O. Miller (London, GB) | |
| 12:00 | Cardiac computed tomography/Nuclear. | 1103 |
| | A.N. Kitsiou (Athens, GR) | |
| 12:15 | Cardiac magnetic resonance imaging. | 1104 |
| | S.E. Petersen (London, GB) | |

11:00 - 12:30 Symposium

ISTANBUL

Rotation, twisting and torsion: what does it mean and what can we learn from it?

Chairpersons: T. Edvardsen (Oslo, NO); A. DeMaria (San Diego, US)

11:00	From myocardial fibre architecture to ventricular torsion.	1105
	P.P. Sengupta (New York, US)	
11:22	Normal patterns of rotation/torsion and changes with aging.	1106
	T. Helle-Valle (Oslo, NO)	
11:45	Cardiac mechanics to distinguish subendocardial from transmural necrosis.	1107
	A.A. Pasquet (Brussels, BE)	
12:07	Valvular heart disease: how does it change rotation/torsion.	1108
	S. Mobasser (Atlanta, US)	

11:00 - 12:30 Symposium

IZMIR

Right ventricular anatomy and function by cardiac imaging and clinical implications

Chairpersons: P. Lindqvist (Umea, SE); T. Kukulski (Zabrze, PL)

Multimodality imaging

11:00	Which is the best echocardiographic method to assess right ventricular anatomy, function and pathology?	1109
	S. Lerakis (Atlanta, US)	
11:18	Advantages in right ventricular assessment by magnetic resonance imaging.	1110
	Z. Qian (Atlanta, US)	
11:36	How to assess right ventricular anatomy, function and pathology in pulmonary hypertension.	1111
	R.O. Jurcut (Bucharest, RO)	
11:54	Current imaging methods in ARVC and how to improve risk stratification of ventricular arrhythmias.	1112
	K.H. Haugaa (Oslo, NO)	
12:12	3D echocardiography and right ventricular assessment.	1113
	J. Grapsa (London, GB)	

11:00 - 12:30 Special Session in Room VAN

Live surgery:
Intraoperative echocardiography
in mitral valve repair
 Live from San Gaudenzio Clinic, Novara, Italy



Chairpersons: R. Rosenhek (Vienna, AT); R. Cichon (Dresden, DE)

11:00	Introduction of the live session. G. Cerin (Novara, IT)	1114
11:03	Case presentation - Live. D. Benea (Novara, IT)	1115
11:08	Transoesophageal echocardiography - Live. B.A. Popa (Novara, IT)	1116
11:13	Surgery of complex mitral valve repair - Live. M. Diena (Novara, IT)	1117
11:20	Surgical anatomy of the mitral valve. K. Fattouch (Palermo, IT)	1118
11:35	Intervention update - Live.	
11:40	Perioperative echocardiography in mitral valve repair. G. Cerin (Novara, IT)	1120
11:55	Intervention update - Live.	
12:00	Surgical techniques in mitral valve repair. G.D. Dreyfus (Monaco, MC)	1122
12:15	Intervention update - Live.	
12:20	Panel & audience discussion with surgical team. R. Cichon (Dresden, DE); G. Cerin (Novara, IT); G.D. Dreyfus (Monaco, MC); K. Fattouch (Palermo, IT)	1124

LIVE
SURGERY

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Saturday 14 December



MORNING

These Posters will be on display from 08:30 - 12:30

Coffee break 10:00 - 11:00

Time to meet the presenters / interact & exchange around research presented

Moderated Posters Session 7 (10:00 – 11:00)..... Page 151

Attend this session to hear flash presentation of the research by the presenters in front of moderators expert in the topics presented.

Poster Session 6..... Page 152

Abstracts presentation by topic

High Score Abstract

Look out for these abstracts acknowledged by the reviewing committee.



Missed a Presentation?

All posters, abstracts and slide presentations are available for viewing at the e-Library in the Poster Area.

After the congress, abstracts will be available online and a selection of slide presentations will be available only to EACVI Members. More information on the ESC-EACVI Stand.

Abstract presenters can consult the **POSTER ASSISTANCE DESK** for further information and to retrieve their **Certificate of Presentation**.

Important information for Presenters

Poster presenters must set up Poster between 08:00 - 08:30.

All posters not affixed by 10:00 may be considered as no-show. Posters must be removed from the area between 12:30 - 13:00.

10:00 - 11:00 - Insights into the use of contrast stress echocardiography and 3D strain

Chairpersons: R. Senior (London, GB); B. Amstrong (Ann Arbor, US)

Reference values for 3D echo parameters describing left ventricular mechanics obtained by vendor-independent software. P1125

D. Muraru, E. Piasentini, S. Mihaila, P. Naso, S. Casablanca, D. Peluso, G. Denas, L. Ucci, S. Iliceto, L.P. Badano (Padua, IT; Bucharest, RO)

Effects of Glucagon-like peptide-1 (GLP-1) on coronary flow reserve in patients with Type 2 diabetes: A contrast echocardiography study. P1126

S.S. Abdel Moneim, B. Kirby, E. Mendrick, B. Norby, M. Hagen, A. Basu, S.L. Mulvagh (Rochester, US)

Myocardial blood flow reserve in atheletes is supernormal and is characterised by increased recruitment of capillaries compared to hypertrophic cardiomyopathy in subjects with gray-zone hypertrophy. P1127

R. Chelliah, G. Whyte, S. Sharma, A. Pantazis, R. Senior (London, GB)

Ultrasound contrast agent loaded with nitric oxide as a theranostic microdevice for myocardial ischemia. P1128

D. Grishenkov, S. Kothapalli, A. Gonon, B. Janerot-Sjoberg (Stockholm and Huddinge, SE)

Role of contrast echocardiography in the primary percutaneous coronary intervention era. Incidence and predictors of left ventricular thrombus in patients with acute myocardial infarction. P1129

S. Gianstefani, P.A. Maccarthy, T. Rogers, A. Sen, I. Delithanasis, J. Reiken, L. Charangwa, A. Douiri, M.J. Monaghan (London, GB)

End-systolic pressure-volume relation predicts cardiac events in patients with abnormal ejection fraction and negative stress echocardiography. P1130

T. Bombardini, R. Sicari, S. Gherardi, Q. Ciampi, L. Pratali, S. Salvadori, E. Picano (Pisa, Cesena and Benevento, IT)

Dobutamine stress echocardiography : qualitative and quantitative analysis beyond 2D. P1131

B. Shivalkar, P. Belkova, K. Wouters, C. Van De Heyning, C. De Maeyer, P. Van Herck, C. Vrints (Antwerp, BE)

Echocardiographic determinants of exercise-induced pulmonary hypertension in systemic sclerosis. P1132

D. Voilliot, J. Magne, R. Dulgheru, C. Henri, S. Kou, S. Laaraibi, M. Sprynger, B. Andre, L. Piérard, P. Lancellotti (Liège, BE)

Value of exercise stress echocardiography in elderly asymptomatic patients having a severe aortic stenosis. P1133

M. Federspiel, E. Oger, M. Fournet, M. Daudin, C. Thebault, E. Donal (Rennes, FR)

Favorable medium-term outcome of transplanted hearts selected from marginal donors by pharmacological stress echocardiography. P1134

T. Bombardini, G. Arpesella, S. Bernazzali, L. Potena, W. Serra, R. Del Bene, E. Picano (Pisa, Bologna, Siena, Parma and Florence, IT)

Poster Session 6

Anatomy and physiology of the heart and great vessels

- Physiological determinants of tricuspid annulus size during the cardiac cycle: implications for tricuspid annulus sizing by three-dimensional echocardiography.** P1135
D. Muraru, K. Addetia, F. Veronesi, C. Corsi, V. Mor-Avi, M. Yamat, L. Weinert, R.M. Lang, L.P. Badano (Padua and Bologna, IT; Chicago, US)
- Evaluation of age-associated changes in carotid pulse wave velocity: ultrasound vs accelerometer-based device.** P1136
F. Fata, N. Di Lascio, R.M. Bruno, E. Bianchini, L. Ghiadoni, R. Sicari, V. Gemignani (Pisa, IT)
- Left ventricular geometry and impaired diastolic function in relation to adherence to mediterranean diet in erectile dysfunction patients, the stiffer is not always the better.** P1137
A. Angelis, K. Ageli, N. Ioakimidis, C. Chrysoshoou, A. Agelakas, I. Felekos, S. Vaina, K. Aznaourides, C. Vlachopoulos, C. Stefanadis (Athens, GR)
- The influence of knee-high medical compression stockings of varying pressures on aortic elastic properties: insightful approach to compression caused systemic effects.** P1138
A. Nemes, G. Szolnok, H. Gavaller, A. Gonczy, L. Kemeny, T. Forster (Szeged, HU)

Assessment of diameters, volumes and mass

- Prognostic value of right atrial dimension and longitudinal function in pulmonary hypertension.** P1139
A. Ramalho, R. Placido, L. Marta, M. Menezes, A. Magalhaes, N. Cortez Dias, S. Martins, A. Almeida, F. Pinto, A. Nunes Diogo (Lisbon and Santarem, PT)
- Pulmonary artery stiffness and functional capacity in pulmonary hypertension.** P1140
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