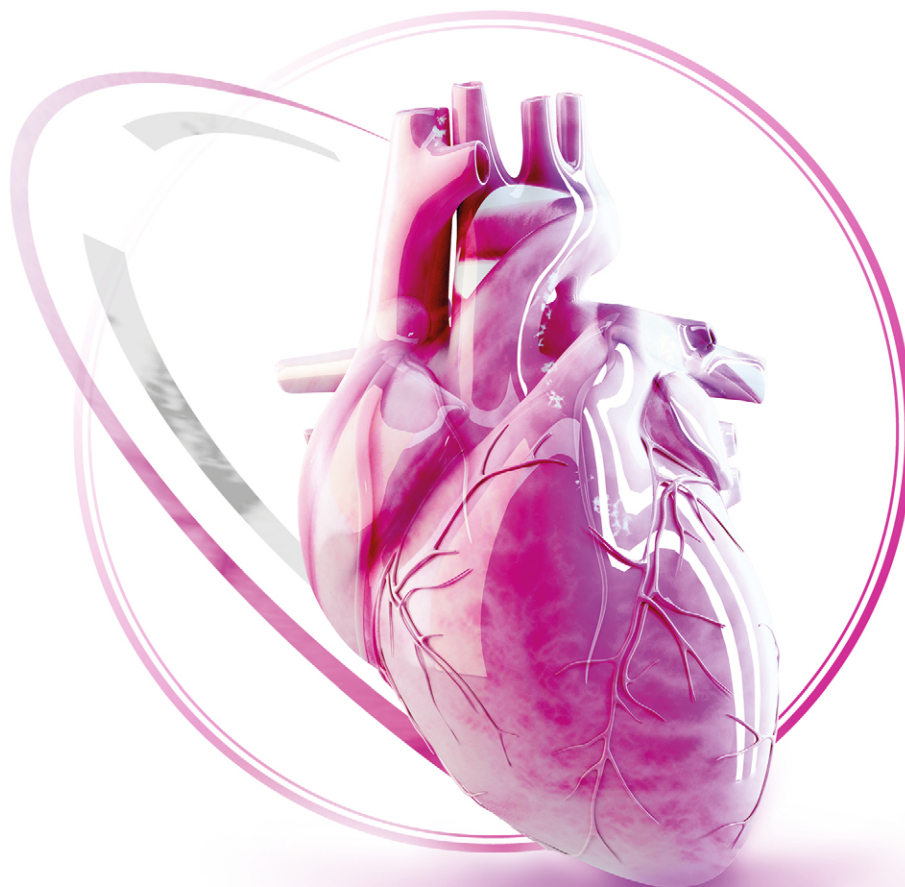




EACVI
European Association of
Cardiovascular Imaging

EuroEcho 2019

THE LEADING ECHOCARDIOGRAPHY CONGRESS



4-7 | **Vienna**
December | AUSTRIA

FINAL PROGRAMME

23rd Annual Congress
of the EACVI

www.escardio.org/EACVI



ESC
European Society
of Cardiology

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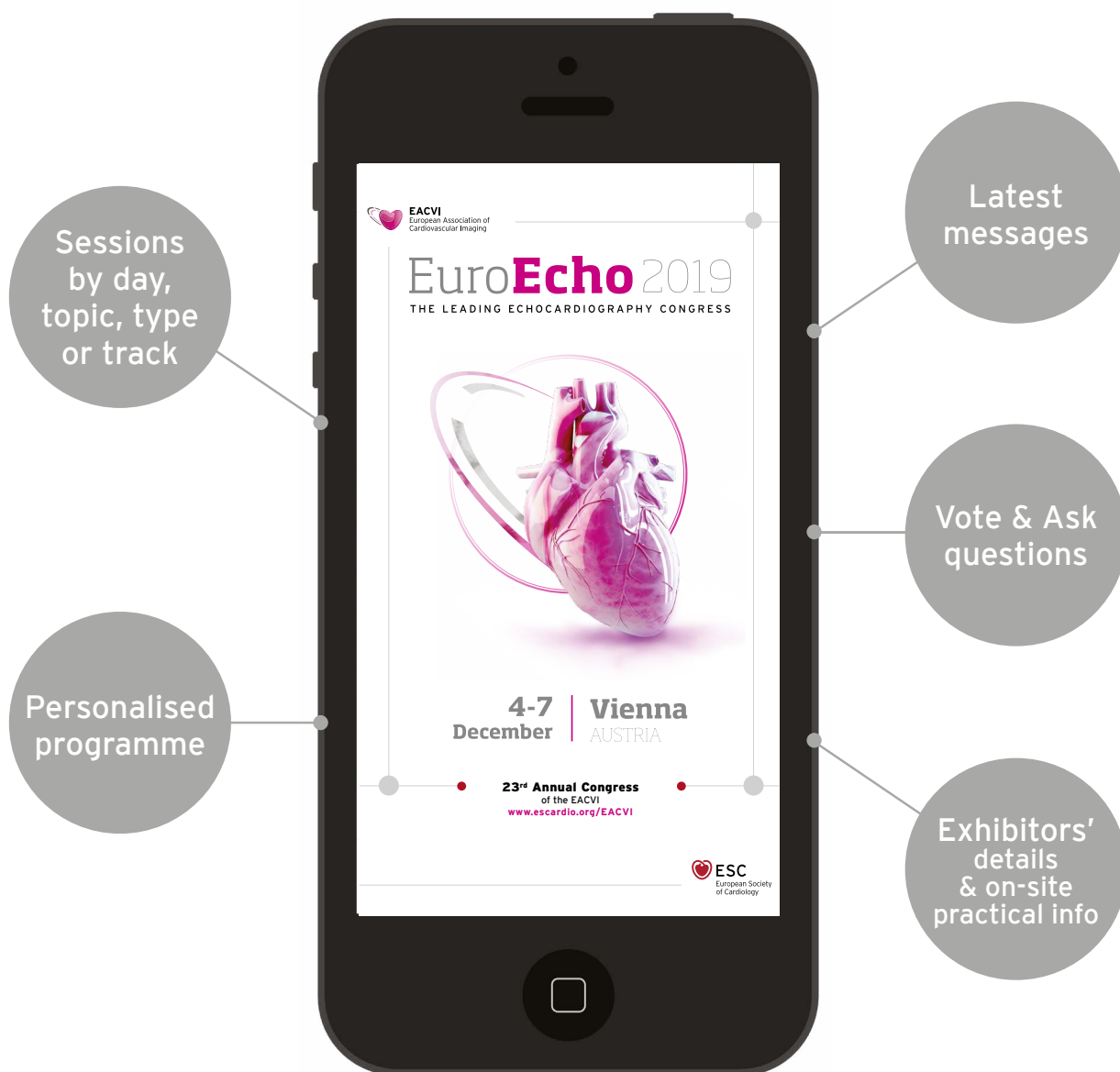
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Download **EuroEcho 2019** Mobile App

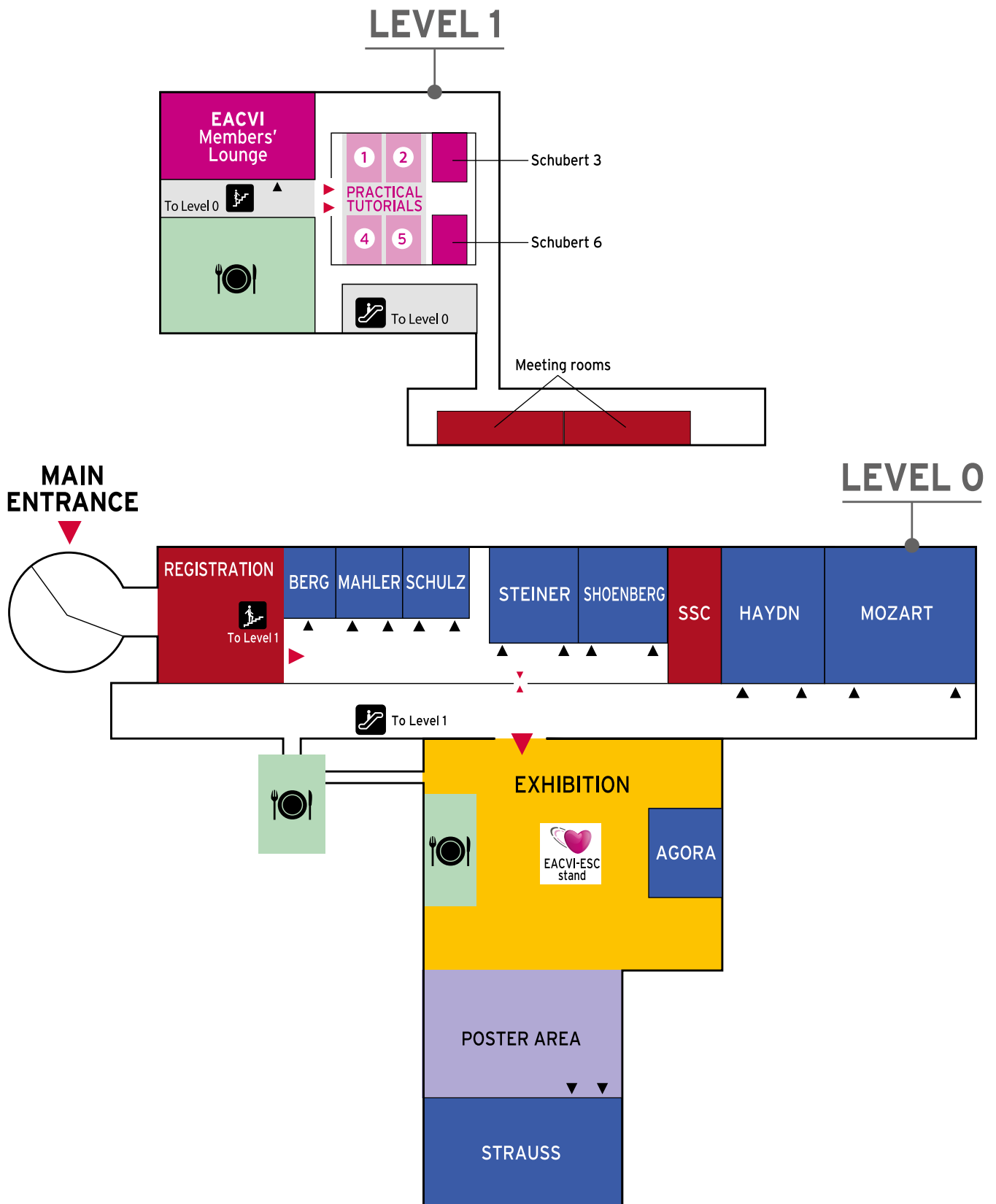


Scientific Resources

Select the presentation of interest and click on:
"View Full Abstract" or "Access slides and videos online"

**Search for 'ESC Congresses'
or 'EuroEcho' in App Store® / Google Play**

Building Overview



Welcome Address

Welcome to EuroEcho 2019 in Vienna, Austria!

EuroEcho is the flagship of the European Association of Cardiovascular Imaging (EACVI) and the world's leading echocardiography congress. This year's main themes are **Cardiomyopathies and Imaging in Acute Cardiac Care**.

The aim of EuroEcho is to create an exciting forum, in which both clinicians and scientists can present and discuss **the most up-to-date research and clinical findings** on the broader spectrum of **echocardiography along with the other cardiovascular imaging techniques**.

An educational track will run throughout the congress, featuring several specifically designed courses and sessions. Young cardiologists and researchers will be stimulated and supported through the **two Young Investigator Award competitions (clinical and basic science)**. In addition, for the first time this year, delegates will be able to attain level 1 certification in echocardiography. Also, dedicated initiatives will reward the **best original research**.

EuroEcho is more than just education and science, it is also a fantastic opportunity to meet the greatest experts in cardiovascular imaging and to exchange ideas and projects with colleagues from around the world, who share the same clinical or scientific interest. We expect EuroEcho in Vienna to be even greater than Milan last year, which was a record-breaking edition in terms of attendance and abstracts/clinical cases presented, and received enthusiastic feedback from participants.

Thank you for being here with us.



Prof. Thor Edvardsen
EACVI President 2018-2020



Prof. Bernard Cosyns and Prof. Maurizio Galderisi
EuroEcho Scientific Programme Chairpersons

EuroEcho 2019 committees

EXECUTIVE BOARD MEMBERS

**Prof. Thor Edvardsen, FESC
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(Brussels, BE)**

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EACVI Past-President

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Scientific Programme Chairpersons

Dr. Julien Magne (Limoges, FR)

Scientific Programme Director

SCIENTIFIC COMMITTEE ADVISORS

Dr. Eustachio Agricola (IT)

Prof. Jutta Bergler-Klein (AT)

Dr. Tara Bharucha (UK)

Prof. Thomas Binder (AT)

Dr. Matteo Cameli (IT)

Prof. Nuno Cardim (PT)

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Prof. Erwan Donal (FR)

Dr. Fabio Guarracino (IT)

Prof. Rebecca Hahn (USA)

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Dr. Denisa Muraru (IT)

Prof. Aleksandar N Neskovic (BG)

Prof. Luc Pierard (FR)

Prof. Bogdan Alexandru Popescu (RO)

Dr. Susanna Price (UK)

Prof. Leyla Elif Sade (TR)

Acknowledgment

The EuroEcho 2019 scientific programme committee takes the opportunity to thank all volunteers involved in the development of this year's edition of EuroEcho: committee members, abstract reviewers, international partners and faculty.

Congresses

14 congresses
Resources
CME credits

Research

Registries
Data mapping
Grants

Community

All careers
All subspecialties
All countries

Discover the ESC

Science

Guidelines
Journals
Books

Advocacy

Health policy
Devices regulation
Research funding

Education

Online & classroom learning
Postgraduate courses
Certification
Grants

Find out more on the **EACVI-ESC stand**



ACCA
Acute Cardiovascular
Care Association



EAPC
European Association of
Preventive Cardiology



HFA
Heart Failure
Association



ACNAP
Association of Cardiovascular
Nursing & Allied Professions



EAPCI
European Association of
Percutaneous Cardiovascular
Interventions



ESC
Councils



EACVI
European Association of
Cardiovascular Imaging



EHRA
European Heart
Rhythm Association



ESC
Working Groups

**EACVI**European Association of
Cardiovascular Imaging European Society of Cardiology

About the EACVI

The European Association of Cardiovascular Imaging (EACVI) is the world's leading network of cardiovascular imaging experts and the organiser of EuroEcho 2019.

The Association is a not-for-profit organisation and everything we do is to support our 14,000 members and all healthcare professionals - cardiologists, technicians, nurses, basic scientists and allied professionals - from cardiovascular imaging worldwide so they can deliver the best possible evidence-based care to patients.

Our activities are driven by volunteers who are renowned experts from across all imaging techniques - echocardiography, cardiovascular magnetic resonance, nuclear cardiology and cardiac computed tomography.

The EACVI is a branch of the European Society of Cardiology (ESC).

Our mission: 'To promote excellence in clinical diagnosis, research, technical development, and education in cardiovascular imaging'.

● EACVI key figures

14,000 members

150 board and committee members. As experts, they create:

1 congress in 2020: EACVI 2020

3 congresses in 2021:
EuroEcho, EuroCMR and ICNC

85 didactic tutorials

15 live webinars per year

More **online learning resources** with
a clinical case gallery, **4** toolboxes,
recommended reading,...

Research and training **grants** every year



9 certification exams per year in 6 topics

5 courses every year

A **5.260** impact factor journal:
*the European Heart Journal -
Cardiovascular Imaging*

High quality **scientific publications**
including **7** books

To learn how we can support you, stop by on previous page it is EACVI-ESC stand or visit www.escardio.org/EACVI

JOIN THE **EACVI COMMUNITY**



Make the most of the Association's:

Education

Courses, webinars, toolboxes and tutorials

Certification

TOE, TTE, echo CHD, CMR, CMR CHD, nuclear cardiology and cardiac CT

Grants

In research and training

Congresses

EACVI 2020, EuroEcho 2021, EuroCMR 2021 and ICNC 2021

Publications

European Heart Journal - Cardiovascular Imaging, recommendations, textbooks, handbook and pocket guides

Become a member

Visit the EACVI-ESC stand

Get more

Combine EACVI Silver Membership with ESC Professional Membership or any Association Silver Membership to access more discounts and learning opportunities.

www.escardio.org/EACVI-membership

Congress Timetable

		7:00		8:00		9:00		10:00		11:00		12:00		13:00		14:00		15:00		16:00		17:00		18:00		19:00		20:00	
				7:30		8:30		9:30		10:30		11:30		12:30		13:30		14:30		15:30		16:30		17:30		18:30		19:30	
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		POSTERS																											
		EXHIBITION																											
		PRACTICAL TUTORIALS*																											
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Thursday 5 December		REGISTRATION																											
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		POSTERS																											
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				7:30		8:30		9:30		10:30		11:30		12:30		13:30		14:30		15:30		16:30		17:30		18:30		19:30	

AS Abstract Sessions CB Coffee Breaks MP Moderated ePosters

as of 18/11/2019

*Previously known as Imaging Campus

Don't Miss Sessions

WEDNESDAY 4 DECEMBER

16:00 - 17:30

Inaugural Session
featuring the Edler Lecture from Prof. P. Lancellotti

ROOMS

MOZART

THURSDAY 5 DECEMBER

10:00 - 11:00

Young Investor Award Session - Basic Science

AGORA

11:00 - 12:30

Cardiac imaging quiz

STRAUSS

14:00 - 14:30

EuroEcho Honorary Lecture
by Prof. J.D. Thomas

STRAUSS

15:30 - 16:30

Young Investigator Award Session - Clinical Science
The Roelandt's Young Investigator Award

AGORA

FRIDAY 6 DECEMBER

8:30 - 10:00

Artificial intelligence demystified

STRAUSS

10:00 - 11:00

EACVI General Assembly

SHOENBERG

10:00 - 11:00

Meet the experts

AGORA

15:30 - 16:30

High Tech Corner session 1

AGORA

15:30 - 16:30

Multimodality imaging and challenging the heart team
(Mobile App voting session)

STRAUSS

18:00 - 19:00

Echo@Jeopardy

STRAUSS

19:00

EACVI Young Networking Cocktail

EACVI Members' Lounge

SATURDAY 7 DECEMBER

08:30 - 10:00

High Tech Corner session 2

AGORA

10:00 - 11:00

High Tech Corner session 3

AGORA

11:00 - 12:30

EuroEcho 2019 highlights

STRAUSS

Congress Information



NEW: LEVEL 1 CERTIFICATION IN ECHOCARDIOGRAPHY

Level 1 certification in echocardiography will enable delegates to become conversant with the field of echocardiography for application in general clinical management of cardiovascular patients.

More information available in the congress mobile app.

Registration for this initiative is now closed. No more seats are available.



MOBILE APP INTERACTIVE SESSION

Audience will be invited to interact during the presentations by answering questions when prompted by the speakers and can use "Ask" to send their questions directly to the chairpersons.



JOINT SESSION

Joint Sessions with International, European and Local Associations.



SPECIAL SESSION



CERTIFICATES

For attendance - available at the registration desk as of Friday 6 December.

For abstract presenters - available at the poster assistance desk in the poster area.

For level 1 certification in Echo - certificates will be delivered by email after the congress.



CONTINUING MEDICAL EDUCATION

The EuroEcho 2019, Vienna, Austria, 04/12/2019-07/12/2019 has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME®) with **21 European CME credits** (ECMEC@s). Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity."

Through an agreement between the Union Européenne des Médecins Spécialistes and the American Medical Association, physicians may convert EACCME® credits to an equivalent number of AMA PRA Category 1 Credits™.



INTERNET CONNECTION

Free wifi is available at the congress centre. However please note that connectivity is subject to the volume of users.

Wifi name: ee-congress

Wifi password: ee-congress



CHILDCARE SERVICE

To ensure equal access to education opportunities, we are pleased to offer, via our partner, a childcare service onsite staffed by approved childcare providers.

If you would like to take advantage of this service, pre-book online before the congress or register directly at the childcare room located in the venue in the registration area.



INTERNET CORNER

Computer with internet access are located in the exhibition.



INFO POINTS

For any other information please address the organisers at the registration.



SECURITY

Please ensure your badge is visible at all times and comply with security controls that you may be subject to within the congress venue.



EACVI MEMBERS' LOUNGE

The lounge is an exclusive area located on level 1 where EACVI Silver Members are invited to have breaks and enjoy refreshments.

Become a Silver Member at the EACVI-ESC stand

Industry at EuroEcho 2019

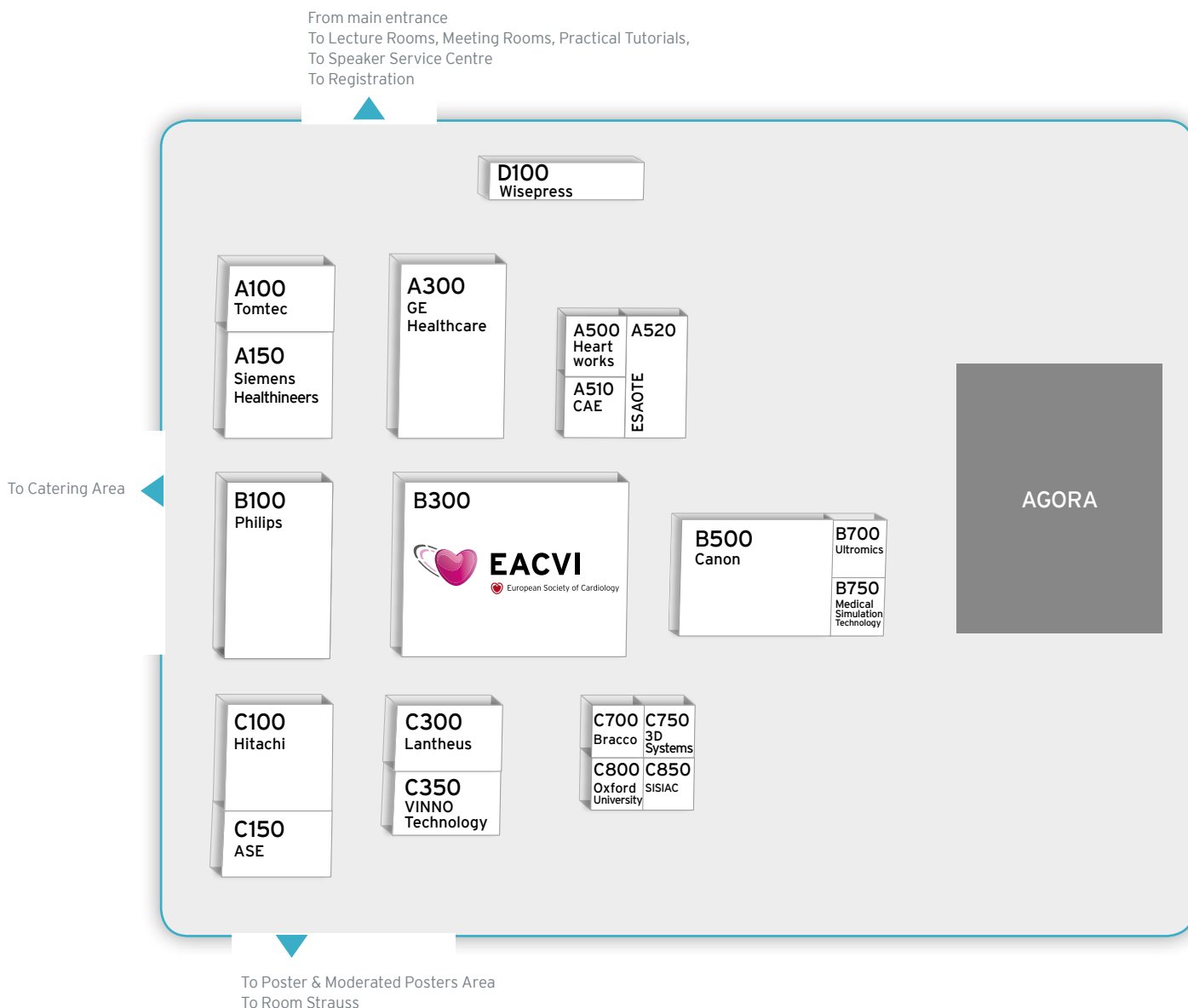


The fight against cardiovascular disease is a shared mission.
Our industry partners offer a rich educational programme to delegates throughout the congress.
Discover the wide variety of activities from educational sessions to stand activities.

Exhibition

The exhibition is an integral part of the congress. The exhibition provides delegates with the opportunity to exchange with key industry experts on critical areas of development and research in cardiovascular products and therapies.

The exhibition will be a central hub for scientific discussion and exchange during the congress.



ACKNOWLEDGEMENTS - Exhibitors (as of 18/11/2019)

American Society of Echocardiography
Bracco Suisse SA
CAE Healthcare
Canon Medical Systems Europe
ESAOTE
European Society of Cardiology
SISIAC
GE Healthcare GmbH
Intelligent Ultrasound (HeartWorks)
Hitachi Medical Systems Europe

C150
C700
A510
B500
A520
B300
C850
A300
A500
C100

Lantheus Medical Imaging Inc
Medical Simulation Technology
Oxford University Press
Philips
Siemens Healthineers
TOMTEC Imaging Systems GmbH
Ultromics
VINNO Technology (Suzhou) Co., Ltd.
Wisepress Ltd
3D Systems Simbionix

C300
B750
C800
B100
A150
A100
B700
C350
D100
C750

Satellite Symposia

Delegates are cordially invited to attend a series of Satellite Symposia included in the EuroEcho 2019 Scientific Programme.

These sessions will offer pertinent data on the latest scientific development in cardiovascular imaging from the industry.

- Abbott
- Bracco
- Canon Medical Systems Europe
- Edwards Lifesciences
- GE Healthcare
- Lantheus Medical Imaging Inc
- Philips

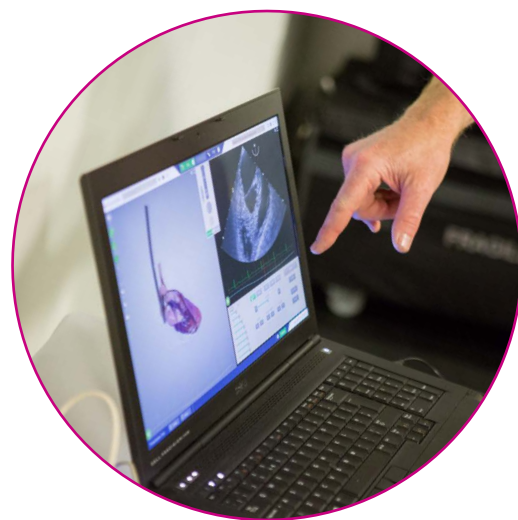
Practical Tutorials (previously known as Imaging Campus)

The Practical Tutorials offers delegates a unique opportunity for practical training and hands-on learning from industry experts in an intimate setting, allowing them to address specific issues essential to your daily practice.

Sign up now at the sponsor's booth or directly in front of the Practical Tutorials room.

Seats are limited!

- GE Healthcare
- Philips
- Siemens Healthineers
- TOMTEC Imaging Systems GmbH



For further information, please refer to the Scientific Programme daily sections, the Scientific Programme & Planner and the congress mobile app.

Sponsorship (as of 18/11/2019)

The ESC gratefully acknowledges the following organisations which have contributed to the success of EuroEcho 2019 via educational grant, support of delegate services materials and other sponsorship opportunities.

- Lantheus Medical Imaging Inc
- Philips
- Siemens Healthineers



All Presentations from EuroEcho Congress

Slides

Videos

Abstracts

FREE
access



See for yourself
at the ESC 365 Desks

www.escardio.org/365



ESC 365 is supported by Bayer, Boehringer Ingelheim and Lilly Alliance, Bristol-Myers Squibb and Pfizer Alliance, Novartis Pharma AG, and Vifor Pharma in the form of educational grants. The sponsors were not involved in the development of this platform and had no influence on its content.



EACVI
European Association of
Cardiovascular Imaging

• Practical Tutorials

Devices, Imaging, Clinical Practice

Dedicated programmes from experts on the practical application of knowledge and skills

Sign up now in the Practical Tutorials room
or at the sponsor's stand

Places are limited

PRACTICAL TUTORIALS

PRACTICAL TUTORIALS 1
ROOM

Sponsored by Siemens Healthineers

10:00 - 11:30

PRACTICAL TUTORIALS 1

Coronary flow reserve quantification and imaging

Chairperson(s): S. Svedlund (Gothenburg, SE)

Learning objectives: Coronary flow reserve is a measurement often used to assist in the treatment of conditions affecting the coronary arteries and to determine the efficacy of treatments. This workshop will allow you to gain an introductory understanding of the theory and practical imaging techniques used in the quantification of coronary flow reserve.

Sponsored by Siemens Healthineers

14:00 - 15:30

PRACTICAL TUTORIALS 1

Using Artificial Intelligence to assess anatomy and measure volumes accurately, quickly and reproducibly by 3D echocardiography

Chairperson(s): K. Ablasser (Graz, AT)

Learning objectives: Stroke Volume, Cardiac output and valve morphology are measured in most TTE and TEE exams irrespective of disease or diagnosis. This workshop will allow you to use techniques for aortic and mitral valve modeling using real-time True-Volume TEE data and also leverage true volume colour Doppler from TTE and TEE acquisitions and quantify Stroke Volume, Cardiac Output (HR), Regurgitant Fraction and Regurgitant Volume non-invasively, accurately, reproducibly and quickly.

PRACTICAL TUTORIALS 2
ROOM

Sponsored by GE Healthcare

10:30 - 11:30

PRACTICAL TUTORIALS 2

Strain patterns of different cardiac diseases

Chairperson(s): M. Cikes (Zagreb, HR)

Sponsored by GE Healthcare

13:00 - 14:00

PRACTICAL TUTORIALS 2

Myocardial work. Seeing more than strain

Chairperson(s): M. Galderisi (Naples, IT)

Sponsored by GE Healthcare

15:30 - 16:30

PRACTICAL TUTORIALS 2

Case based 4D quantification

Chairperson(s): L.P. Badano (Padova, IT)

PRACTICAL TUTORIALS 4
ROOM

Sponsored by Tomtec

11:00 - 12:30

PRACTICAL TUTORIALS 4

Crash-course in stress echo interpretation - for the many and not just for the few (from theory to practice)

Chairperson(s): A. Kardos (Oxford, GB)

Learning objectives: Current role of stress echocardiography in contemporary cardiology diagnostics (what the guidelines suggest; ischemia detection, risk prediction, and in structural heart disease). Learning about the indication - safety - and types of stress echocardiography Factors that influences accuracy of interpretation. The "bare minimum" to unify stress echo interpretation to improve credibility Dive into the reporting arena - try your skills of interpretation

Sponsored by Tomtec

14:00 - 15:30

PRACTICAL TUTORIALS 4

Current echocardiographic techniques to evaluate the right ventricle

Chairperson(s): J.D. Kasprzak (Lodz, PL)

Learning objectives: This workshop will provide practical guidance on how to assess the right ventricle for normal and diseased pathologies. Participants will be shown correct echocardiographic images for proper analysis. TOMTEC's vendor neutral software will be used for this workshop.

Sponsored by Tomtec

16:00 - 17:30

PRACTICAL TUTORIALS 4

Virtual reality learning lab: the use of VR technology in cardiac imaging

Chairperson(s): B. Mumm (Unterschleissheim, DE)

Learning objectives: This workshop will give a comprehensive overview about the use of Virtual Reality* (VR) and Augmented Reality (AR) in cardiac imaging with special focus on 3D echocardiography. Participants will understand the potential clinical use and future opportunities of VR/AR technology. The workshop will be done in 3 parts: 1. Introduction talk. 2. Live demonstration on VR. 3. Get your own experience.

*The VR technology is currently not a released product and not for sale (not CE marked or FDA cleared - not for patient use).

PRACTICAL TUTORIALS 5
ROOM

Sponsored by Philips

9:00 - 10:00

PRACTICAL TUTORIALS 5

Right ventricle - the forgotten heart chamber? When and how should we analyze it.

Chairperson(s): V. Volpato (Milan, IT)

Learning objectives: New echo quantification packages allow accurate and reproducible measurements of the right cardiac chamber. This right ventricle oriented session will cover recent technological advances in echocardiography opening new perspectives in understanding the pathophysiology of heart failure and the importance of quantifying the right chambers of the heart.

Sponsored by Philips

10:25 - 11:25

PRACTICAL TUTORIALS 5

Revealing new insights of LAA

Chairperson(s): X. Iriart (Pessac, FR)

Learning objectives: This LAA oriented session will cover recent technological advances in echocardiography opening new perspectives in understanding the importance of 2D and 3D imaging of the LAA.

PRACTICAL TUTORIALS 5 (CONTINUED)

Sponsored by Philips

11:50 - 12:50

PRACTICAL TUTORIALS 5

How to optimize the performance of structural heart interventions

Chairperson(s): M. Swaans (Hedel, NL)

Learning objectives: This Interventional cardiology oriented session will discuss the role of precision guided technologies in the interventional lab today. Recent technological advances in echocardiography and other cardiac imaging modalities opened new perspectives in interventional procedures.

Sponsored by Philips

13:40 - 14:40

PRACTICAL TUTORIALS 5

Revealing new insights of structural valve disease (Mitral Valve)

Chairperson(s): A. Quessard (Bordeaux, FR)

Learning objectives: This mitral valve oriented session will cover recent technological advances in echocardiography opening new perspectives in understanding the pathophysiology of the heart failure, making the correct diagnosis and management of patients. This may help to plan and guide the treatment of heart failure originating from valvular heart disease.

Sponsored by Philips

15:05 - 16:05

PRACTICAL TUTORIALS 5

Revealing new insights of LAA

Chairperson(s): X. Iriart (Pessac, FR)

Learning objectives: This LAA oriented session will cover recent technological advances in echocardiography opening new perspectives in understanding the importance of 2D and 3D imaging of the LAA.

Sponsored by Philips

16:30 - 17:30

PRACTICAL TUTORIALS 5

How can echo help in the comprehensive assessment of the left ventricle

Chairperson(s): V. Volpato (Milan, IT)

Learning objectives: New echo quantification packages allow accurate and reproducible measurements of the left cardiac chambers. This left ventricle and left atrium oriented session will cover recent technological advances in echocardiography opening new perspectives for more precise diagnosis and prognostic stratification of heart failure.

PRACTICAL TUTORIALS 1
ROOM

Sponsored by Siemens Healthineers

08:30 - 10:00

PRACTICAL TUTORIALS 1

Using Artificial Intelligence to assess anatomy and measure volumes accurately, quickly and reproducibly by 3D echocardiography**Chairperson(s): K. Ablasser (Graz, AT)**

Learning objectives: Stroke Volume, Cardiac output and valve morphology are measured in most TTE and TEE exams irrespective of disease or diagnosis. This workshop will allow you to use techniques for aortic and mitral valve modeling using real-time True-Volume TEE data and also leverage true volume colour Doppler from TTE and TEE acquisitions and quantify Stroke Volume, Cardiac Output (HR), Regurgitant Fraction and Regurgitant Volume non-invasively, accurately, reproducibly and quickly.

Sponsored by Siemens Healthineers

12:30 - 14:00

PRACTICAL TUTORIALS 1

Coronary flow reserve quantification and imaging**Chairperson(s): S. Svedlund (Gothenburg, SE)**

Learning objectives: Coronary flow reserve is a measurement often used to assist in the treatment of conditions affecting the coronary arteries and to determine the efficacy of treatments. This workshop will allow you to gain an introductory understanding of the theory and practical imaging techniques used in the quantification of coronary flow reserve.

Sponsored by Siemens Healthineers

16:00 - 17:30

PRACTICAL TUTORIALS 1

Quantifying Aortic and Mitral valve anatomy, measuring volumes and flow accurately, quickly and reproducibly by 3D echocardiography**Chairperson(s): G. Trocino (Biaassono, IT)**

Learning objectives: Stroke Volume, Cardiac output and valve morphology are measured in most TTE and TEE exams irrespective of disease or diagnosis. This workshop will allow you to use techniques for aortic and mitral valve modeling using real-time True-Volume TEE data and also leverage true volume colour Doppler from TTE and TEE acquisitions and quantify Stroke Volume, Cardiac Output (HR), Regurgitant Fraction and Regurgitant Volume non-invasively, accurately, reproducibly and quickly.

PRACTICAL TUTORIALS 2
ROOM

Sponsored by GE Healthcare

10:30 - 11:30

PRACTICAL TUTORIALS 2

Strain patterns of different cardiac diseases**Chairperson(s): M. Cikes (Zagreb, HR)**

Sponsored by GE Healthcare

13:00 - 14:00

PRACTICAL TUTORIALS 2

Myocardial work. Seeing more than strain**Chairperson(s): M. Galderisi (Naples, IT)**

PRACTICAL TUTORIALS 2 (CONTINUED)

Sponsored by GE Healthcare

15:30 - 16:30

PRACTICAL TUTORIALS 2

Case based 4D quantification

Chairperson(s): L.P. Badano (Padova, IT)

PRACTICAL TUTORIALS 4
ROOM

Sponsored by Tomtec

09:00 - 10:30

PRACTICAL TUTORIALS 4

Crash-course in stress echo interpretation - for the many and not just for the few (from theory to practice)

Chairperson(s): A. Kardos (Oxford, GB)

Learning objectives: Current role of stress echocardiography in contemporary cardiology diagnostics (what the guidelines suggest; ischemia detection, risk prediction, and in structural heart disease). Learning about the indication - safety - and types of stress echocardiography Factors that influences accuracy of interpretation. The "bare minimum" to unify stress echo interpretation to improve credibility Dive into the reporting arena - try your skills of interpretation.

Sponsored by Tomtec

11:00 - 12:30

PRACTICAL TUTORIALS 4

Mitral valve prolapse (MVP) - What does the surgeon need to know?

Chairperson(s): H. Mahmoud-Elsayed (Birmingham, GB)

Learning objectives: To understand the anatomy of the mitral valve. Learning the different types of mitral valve prolapse. To know the relevant MV parameters in terms of MV repair. Learning what can 3D Echocardiography add in terms of diagnosis and quantification of MVP. To understand how to quantify mitral regurgitation in MVP.

Sponsored by Tomtec

13:00 - 14:30

PRACTICAL TUTORIALS 4

Left atrial appendage closure: advanced imaging considerations

Chairperson(s): G. B. Gentile (Worcester, US)

Learning objectives: This workshop will review left atrial appendage pathology and provide hands-on direction for the proper evaluation of the LAA, prior to, and after percutaneous closure. Areas of focus include 3D image acquisition, manipulation, and cropping to facilitate precise measurements prior to and after LAA closure using TOMTEC's vendor neutral software.

Sponsored by Tomtec

15:00 - 16:30

PRACTICAL TUTORIALS 4

The benefits and pitfalls of left ventricular strain analysis

Chairperson(s): G.P. Aurigemma (Worcester, US)

Learning objectives: This workshop will provide practical guidance for performing 2D left ventricular strain analysis. The techniques shown will be applied to multiple cardiac pathologies which demonstrates beneficial use within an echocardiography practice. In addition, recommendations on how to overcome some challenges with strain imaging will be discussed.

PRACTICAL TUTORIALS 5
ROOM

Sponsored by Philips

08:30 - 09:30

PRACTICAL TUTORIALS 5

Cardiotoxic effects of cancer therapy - the role of echo

Chairperson(s): T. Lopez Fernandez (Madrid, ES)

Learning objectives: New echo quantification packages allow accurate and reproducible measurements of the left cardiac chambers. This left ventricle and left atrium oriented session will cover recent technological advances in echocardiography opening new perspectives for more precise diagnosis and prognostic stratification of the heart failure with preserved left ventricular ejection fraction and detection of subclinical myocardial dysfunction during cancer therapy.

Sponsored by Philips

10:00 - 11:00

PRACTICAL TUTORIALS 5

Revealing new insights of LAA

Chairperson(s): X. Iriart (Pessac, FR)

Learning objectives: This LAA oriented session will cover recent technological advances in echocardiography opening new perspectives in understanding the importance of 2D and 3D imaging of the LAA.

Sponsored by Philips

11:30 - 12:30

PRACTICAL TUTORIALS 5

How can echo help in the comprehensive assessment of the left ventricle

Chairperson(s): V. Volpato (Milan, IT)

Learning objectives: New echo quantification packages allow accurate and reproducible measurements of the left cardiac chambers. This left ventricle and left atrium oriented session will cover recent technological advances in echocardiography opening new perspectives for more precise diagnosis and prognostic stratification of heart failure.

Sponsored by Philips

13:30 - 14:30

PRACTICAL TUTORIALS 5

Right ventricle - the forgotten heart chamber? When and how should we analyze it

Chairperson(s): T. Le Tourneau (Nantes, FR)

Learning objectives: New echo quantification packages allow accurate and reproducible measurements of the right cardiac chamber. This right ventricle oriented session will cover recent technological advances in echocardiography opening new perspectives in understanding the pathophysiology of heart failure and the importance of quantifying the right chambers of the heart.

Sponsored by Philips

15:00 - 16:00

PRACTICAL TUTORIALS 5

How to optimize the performance of structural heart interventions

Chairperson(s): M. Swaans (Hedel, NL)

Learning objectives: This Interventional cardiology oriented session will discuss the role of precision guided technologies in the interventional lab today. Recent technological advances in echocardiography and other cardiac imaging modalities opened new perspectives in interventional procedures.

PRACTICAL TUTORIALS 5 (CONTINUED)

Sponsored by Philips

16:30 - 17:30

PRACTICAL TUTORIALS 5

Right ventricle - the forgotten heart chamber? When and how should we analyze it.

Chairperson(s): V. Volpato (Milan, IT)

Learning objectives: New echo quantification packages allow accurate and reproducible measurements of the right cardiac chamber. This right ventricle oriented session will cover recent technological advances in echocardiography opening new perspectives in understanding the pathophysiology of heart failure and the importance of quantifying the right chambers of the heart.

PRACTICAL TUTORIALS 1
ROOM

Sponsored by Siemens Healthineers

8:30 - 10:00

PRACTICAL TUTORIALS 1

Quantifying Aortic and Mitral valve anatomy, measuring volumes and flow accurately, quickly and reproducibly by 3D echocardiography**Chairperson(s): G. Trocino (Biaassono, IT)**

Learning objectives: Stroke Volume, Cardiac output and valve morphology are measured in most TTE and TEE exams irrespective of disease or diagnosis. This workshop will allow you to use techniques for aortic and mitral valve modeling using real-time True-Volume TEE data and also leverage true volume colour Doppler from TTE and TEE acquisitions and quantify Stroke Volume, Cardiac Output (HR), Regurgitant Fraction and Regurgitant Volume non-invasively, accurately, reproducibly and quickly.

Sponsored by Siemens Healthineers

12:00 - 14:00

PRACTICAL TUTORIALS 1

Coronary flow reserve quantification and imaging**Chairperson(s): S. Svedlund (Gothenburg, SE)**

Learning objectives: Coronary flow reserve is a measurement often used to assist in the treatment of conditions affecting the coronary arteries and to determine the efficacy of treatments. This workshop will allow you to gain an introductory understanding of the theory and practical imaging techniques used in the quantification of coronary flow reserve.

Sponsored by Siemens Healthineers

16:00 - 17:30

PRACTICAL TUTORIALS 1

Using Artificial Intelligence to assess anatomy and measure volumes accurately, quickly and reproducibly by 3D echocardiography**Chairperson(s): K. Ablasser (Graz, AT)**

Learning objectives: Stroke Volume, Cardiac output and valve morphology are measured in most TTE and TEE exams irrespective of disease or diagnosis. This workshop will allow you to use techniques for aortic and mitral valve modeling using real-time True-Volume TEE data and also leverage true volume colour Doppler from TTE and TEE acquisitions and quantify Stroke Volume, Cardiac Output (HR), Regurgitant Fraction and Regurgitant Volume non-invasively, accurately, reproducibly and quickly.

PRACTICAL TUTORIALS 2
ROOM

Sponsored by GE Healthcare

10:30 - 11:30

PRACTICAL TUTORIALS 2

Myocardial work. Seeing more than strain**Chairperson(s): M. Galderisi (Naples, IT)**

Sponsored by GE Healthcare

13:00 - 14:00

PRACTICAL TUTORIALS 2

Strain patterns of different cardiac diseases**Chairperson(s): M. M. Cikes (Zagreb, HR)**

Sponsored by GE Healthcare

15:30 - 16:30

PRACTICAL TUTORIALS 2

Case based 4D quantification**Chairperson(s): L.P. Badano (Padova, IT)**

PRACTICAL TUTORIALS 4
ROOM

Sponsored by Tomtec

09:00 - 10:30

PRACTICAL TUTORIALS 4

Global and regional assessment of left ventricular function - Mitral valve assessment: pre-operative findings collaborating with intraoperative assessment: a step by step approach**Chairperson(s): C. Mukherjee (Karlsruhe, DE)**

Learning objectives: The attendees will be able to assess the global left ventricular functional including the use of vendor independent software. Regional wall motion abnormalities including the segmental coronary supply and their intraoperative implications. Mitral valve assessment using vendor independent software. Correlation of pre and intraoperative findings and their implications on patient outcome.

Sponsored by Tomtec

11:00 - 12:30

PRACTICAL TUTORIALS 4

Virtual reality learning lab: the use of VR technology in cardiac imaging**Chairperson(s): B. Mumm (Unterschleissheim, DE)**

Learning objectives: This workshop will give a comprehensive overview about the use of Virtual Reality* (VR) and Augmented Reality (AR) in cardiac imaging with special focus on 3D echocardiography. Participants will understand the potential clinical use and future opportunities of VR/AR technology. The workshop will be done in 3 parts: 1. Introduction talk. 2. Live demonstration on VR. 3. Get your own experience.

*The VR technology is currently not a released product and not for sale (not CE marked or FDA cleared - not for patient use).

Sponsored by Tomtec

13:00 - 14:30

PRACTICAL TUTORIALS 4

The benefits and pitfalls of left ventricular strain analysis**Chairperson(s): G.P. Aurigemma (Worcester, US)**

Learning objectives: This workshop will provide practical guidance for performing 2D left ventricular strain analysis. The techniques shown will be applied to multiple cardiac pathologies which demonstrates beneficial use within an echocardiography practice. In addition, recommendations on how to overcome some challenges with strain imaging will be discussed.

Sponsored by Tomtec

13:00 - 14:30

PRACTICAL TUTORIALS 4

3D analysis and measuring of the left atrial appendage for device procedures - Gentile 3D LV appendage**Chairperson(s): G. B. Gentile (Worcester, US)**

Learning objectives: To be confirmed.

PRACTICAL TUTORIALS 5
ROOM

Sponsored by Philips

08:30 - 09:30

PRACTICAL TUTORIALS 5

Cardiotoxic effects of cancer therapy - the role of echo**Chairperson(s): T. Lopez Fernandez (Madrid, ES)**

Learning objectives: New echo quantification packages allow accurate and reproducible measurements of the left cardiac chambers. This left ventricle and left atrium oriented session will cover recent technological advances in echocardiography opening new perspectives for more precise diagnosis and prognostic stratification of the heart failure with preserved left ventricular ejection fraction and detection of subclinical myocardial dysfunction during cancer therapy.

PRACTICAL TUTORIALS 5 (CONTINUED)

Sponsored by Philips

10:00 - 11:00

PRACTICAL TUTORIALS 5

Right ventricle - the forgotten heart chamber? When and how should we analyze it

Chairperson(s): V. Volpato (Milan, IT)

Learning objectives: New echo quantification packages allow accurate and reproducible measurements of the right cardiac chamber. This right ventricle oriented session will cover recent technological advances in echocardiography opening new perspectives in understanding the pathophysiology of heart failure and the importance of quantifying the right chambers of the heart.

Sponsored by Philips

11:30 - 12:30

PRACTICAL TUTORIALS 5

How can echo help in the comprehensive assessment of the left ventricle

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Learning objectives: New echo quantification packages allow accurate and reproducible measurements of the left cardiac chambers. This left ventricle and left atrium oriented session will cover recent technological advances in echocardiography opening new perspectives for more precise diagnosis and prognostic stratification of heart failure.

Sponsored by Philips

13:30 - 14:30

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Chairperson(s): T. Le Tourneau (Nantes, FR)

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PRACTICAL TUTORIALS 5

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Learning objectives: New echo quantification packages allow accurate and reproducible measurements of the left cardiac chambers. This left ventricle and left atrium oriented session will cover recent technological advances in echocardiography opening new perspectives for more precise diagnosis and prognostic stratification of the heart failure with preserved left ventricular ejection fraction and detection of subclinical myocardial dysfunction during cancer therapy.

Sponsored by Philips

16:30 - 17:30

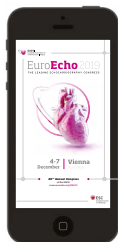
PRACTICAL TUTORIALS 5

Revealing new insights of structural valve disease (tricuspid valve)

Chairperson(s): X. To be announced (X, FR)

Learning objectives: This Tricuspid Valve oriented session will cover recent technological advances in echocardiography opening new perspectives in understanding the pathophysiology of the heart failure, making the correct diagnosis and management of patients. This may help to plan and guide the treatment of heart failure originating from valvular heart disease.

Wednesday 4 December



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INAUGURAL SESSION

16:00 - 17:30

SPECIAL EVENT

MOZART

Chairperson(s): T. Edvardsen (Oslo, NO); B. Cosyns (Brussels, BE)

Welcome Address by the EACVI President

S. Edvardsen (Oslo, NO)

ESC Presidential Welcome

B. Casadei (Oxford, GB)

Welcome Address by the Local Hosts

J. BerglerKlein (Vienna, AT)

Scientific programme highlights

M. Galderisi (Naples, IT)

Introduction of the Edler Lecture presenter

T. Edvardsen (Oslo, NO)

**Edler Lecture: "Imaging valve disease:
the whole is better than the sum of its parts"**

P. Lancellotti (Liege, BE)

Presentation of Edler Diploma

B. Cosyns (Brussels, BE); T. Edvardsen (Oslo, NO)

Presentation of Honorary Member Geneviève Derumeaux

T. Edvardsen (Oslo, NO)

Presentation from new Honorary Member

G.A. Derumeaux (Creteil, FR)

Presentation of Honorary Member Luc Pierard

B. Cosyns (Brussels, BE)

Presentation from new Honorary Member

L. Pierard (Liege, BE)

EACVI Research and Training Grant Winners

G. Di Salvo (London, GB); B. Cosyns (Brussels, BE)

Opening Address

T. Edvardsen (Oslo, NO)

TEACHING COURSES

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COURSE ON VALVULAR HEART DISEASE (VHD)

MOZART

09:00 - 10:30

The tricuspid valve: the forgotten or troublesome valve?

Chairperson(s): **B. Iung (Paris, FR); J. Mascherbauer (Vienna, AT)**

09:00 › Defining the magnitude of the TR problem.

Y. Topilsky (Telaviv, IL)

09:22 › Quantitative imaging of TR.

R. Hahn (New York, US)

09:45 › Quantitative imaging of the right ventricle and tricuspid annulus.

J. Cavalcante (Minneapolis, US)

10:07 › Can anatomy and physiology help us determine best treatment for TR?

F. Maisano (Zurich, CH)

11:00 - 12:30

Transcatheter therapy for functional MR: lessons from COAPT and MITRAFR

Chairperson(s): **M.A. Clavel (Quebec, CA); R. Sicari (Pisa, IT)**

11:00 › Quantitative imaging of functional MR.

S. Uretsky (Morristown, US)

11:22 › Quantitative imaging of the left ventricle and other cardiac chambers.

E. Agricola (Milano, IT)

11:45 › Similarities and differences between COAPT and MITRAFR.

B. Iung (Paris, FR)

12:07 › Proposal of an algorithm for the management of functional MR based on Imaging.

P. Pibarot (Quebec, CA)

14:00 - 15:30

Imaging in aortic regurgitation

Chairperson(s): **L. Pierard (Liege, BE); J. Magne (Limoges, FR)**

14:00 › Quantitation of AR severity.

A.A. Pasquet (Brussels, BE)

14:22 › Detection and quantitation of subclinical LV dysfunction.

A. Evangelista Masip (Barcelona, ES)

14:45 › Quantitation of mixed disease: AR+AS.

P. Unger (Brussels, BE)

15:07 › When to intervene in AR.

E. Lansac (Paris, FR)

TEACHING COURSES

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COURSE ON STRAIN ECHOCARDIOGRAPHY

STRAUSS

09:00 - 10:30

What is speckle tracking and why do we need it?

Chairperson(s): J. BerglerKlein (Vienna, AT); J.U. Voigt (Leuven, BE)

09:00 ›	Myocardial mechanics and deformation imaging: how is strain derived. <i>J. D'hooge (Leuven, BE)</i>	5
09:22 ›	Speckle tracking: longitudinal, circumferential, radial different types of strain? Normal values and limitations. <i>To be announced</i>	6
09:45 ›	LV function beyond EF. <i>T. Binder (Vienna, AT)</i>	7
10:07 ›	Speckle tracking in coronary disease: view through the bull's eye? <i>T. Marwick (Melbourne, AU)</i>	8

11:00 - 12:30

Speckle Tracking and strain, where is it useful?

Chairperson(s): P. Nihoyannopoulos (London, GB); J.D. Thomas (Chicago, US)

11:00 ›	Speckle tracking in valve disease. <i>V. Delgado (Leiden, NL)</i>	53
11:22 ›	Speckle tracking in increased LV wall thickness. <i>A. Hagendorff (Leipzig, DE)</i>	54
11:45 ›	Speckle tracking in dilated cardiomyopathy, heart failure and HFPEF. <i>F. Knebel (Berlin, DE)</i>	55
12:07 ›	Speckle tracking in CardioOncology. <i>J. BerglerKlein (Vienna, AT)</i>	56

14:00 - 15:30

Speckle tracking, the gamechanger

Chairperson(s): T. Marwick (Melbourne, AU); P.P. Sengupta (Morgantown, US)

14:00 ›	Strain in dyssynchrony and sudden cardiac death. <i>E. Donal (Rennes, FR)</i>	119
14:22 ›	Speckle tracking in ATRIA. <i>M. Cameli (Siena, IT)</i>	120
14:45 ›	Speckle tracking of the right ventricle and in right heart disease. <i>O.H. Lie (Oslo, NO)</i>	121
15:07 ›	Speckle tracking in grownups with congenital heart disease. <i>M. Schneider (Vienna, AT)</i>	122

TEACHING COURSES

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COURSE ON THREE-DIMENSIONAL ECHOCARDIOGRAPHY

HAYDN

Joint session with the American Society of Echocardiography (ASE)



09:00 - 10:30

The Essential Guide to 3D Echocardiography

Chairperson(s): W. Zoghbi (Houston, US); E.A. Prihadi (Aartselaar, BE)

09:00 ›	Cardiac anatomy insights for the 3D echocardiographer.	9
	<i>F.F. Faletra (Lugano, CH)</i>	
09:22 ›	How to optimize the quality of 3D data sets?	10
	<i>L. Sugeng (New Haven, US)</i>	
09:45 ›	Practical tips for an easy 3D cropping and orientation.	11
	<i>K. Addetia (Chicago, US)</i>	
10:07 ›	Pitfalls and artifacts of 3D echo: how to deal with them?	12
	<i>M.J. Monaghan (London, GB)</i>	

11:00 - 12:30

Where Three-Dimensional Echocardiography Makes a Difference (Cased-Based Approach)

Chairperson(s): N. Ajmone Marsan (Leiden, NL); S.V. Pislaru (Rochester, US)

11:00 ›	Three-dimensional Echo: Answering the Challenges of Valvular Heart Disease Quantification.	57
	<i>R. Hahn (New York, US)</i>	
11:22 ›	Three-dimensional Echo: Insights into Left Ventricular Morphology and Function.	58
	<i>To be announced</i>	
11:45 ›	Three-dimensional Echo: Novel Assessment of Right Ventricular Morphology and Function.	59
	<i>E. Surkova (London, GB)</i>	
12:07 ›	Three-dimensional Echo in Adult Congenital Heart Disease.	60
	<i>L.P. Badano (Padova, IT)</i>	

14:00 - 15:30

Novel and Emerging Three-dimensional Echocardiographic Applications

Chairperson(s): J. D'hooge (Leuven, BE); M. Swaminathan (Durham, US)

14:00 ›	Fusion Imaging and New Rendering Algorithms: Do they make a difference?	123
	<i>F.F. Faletra (Lugano, CH)</i>	
14:22 ›	Threedimensional Echo and Automated Quantification.	124
	<i>L.P. Badano (Padova, IT)</i>	
14:45 ›	Utility of 3D Printing.	125
	<i>S. Little (Houston, US)</i>	
15:07 ›	Thinking Outside the Box: 3D Echo Holography and Virtual Reality.	126
	<i>R.M. Lang (Chicago, US); N.A. Narang (Chicago, US)</i>	

TEACHING COURSES

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COURSE ON CARDIOMYOPATHY

SHOENBERG

09:00 - 10:30

The hypertrophy heart

Chairperson(s): A. D'Andrea (Naples, IT); P. Charron (Paris, FR)

09:00 ›	Hypertrophic cardiomyopathy. <i>P. Charron (Paris, FR)</i>	13
09:22 ›	Athletes heart. <i>A. La Gerche (Melbourne, AU)</i>	14
09:45 ›	Amyloidosis. <i>M. Cikes (Zagreb, HR)</i>	15
10:07 ›	Left ventricular non compaction. <i>G. Habib (Marseille, FR)</i>	16

11:00 - 12:30

Dilated cardiomyopathy

Chairperson(s): A. D'Andrea (Naples, IT); W. Jaber (Cleveland, US)

11:00 ›	Overview of DCM. <i>E. Donal (Rennes, FR)</i>	61
11:22 ›	The role of multimodality approach in DCM. <i>M. Westwood (London, GB)</i>	62
11:45 ›	The role of Imaging in risk stratification. <i>W. Jaber (Cleveland, US)</i>	63
12:07 ›	Peripartum cardiomyopathy. <i>G. Novo (Palermo, IT)</i>	64

14:00 - 15:30

Arrhythmogenic cardiomyopathy (AC)

Chairperson(s): K. Haugaa (Oslo, NO); M. Perazzolo Marra (Padova, IT)

14:00 ›	Arrhythmogenic cardiomyopathy overview. <i>B. Bauce (Padova, IT)</i>	127
14:22 ›	Risk stratification in Arrhythmogenic cardiomyopathy. <i>A. Teske (DriebergenRijsenburg, NL)</i>	128
14:45 ›	Arrhythmogenic cardiomyopathy, exercise and athletes heart. <i>G. Claessen (Muizen, BE)</i>	129
15:07 ›	CMR and arrhythmogenic cardiomyopathy. <i>O. Lairez (Toulouse, FR)</i>	130

TEACHING COURSES

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COURSE ON ACUTE CARDIAC CARE (ACC)

STEINER

Joint session with the Acute Cardiovascular Care Association (ACCA)



09:00 - 10:30

Thoracic pain and/or palpitations : what is the role of echo?

Chairperson(s): K. Yiangou (Nicosia, CY); S. Lochy (Lennik, BE)

09:00 ›	Rule in/ rule out acute coronary syndrome. <i>O.A. Breithardt (Kassel, DE)</i>	17
09:22 ›	Fast and furious: arrhythmias. <i>P. Nihoyannopoulos (London, GB)</i>	18
09:45 ›	Heart in a brexit: the cardiac arrest. <i>L. Cullen (Brisbane, AU)</i>	19
10:07 ›	After a trauma. <i>A. Evangelista Masip (Barcelona, ES)</i>	20

11:00 - 12:30

Acute shortness of breath: what echo can offer?

Chairperson(s): A.N. Neskovic (Belgrade, RS); S. Price (London, GB)

11:00 ›	Patient with a new murmur. <i>L. Pierard (Liege, BE)</i>	65
11:22 ›	Patient with acute heart failure. <i>J.J. Park (Seongnam, KR)</i>	66
11:45 ›	Heart-Lung interaction. <i>Q. Ciampi (Benevento, IT)</i>	67
12:07 ›	The patient needs ventilation support: what to look for? <i>S. Lochy (Lennik, BE)</i>	68

14:00 - 15:30

Doing bad: can echo help?

Chairperson(s): C. Hassager (Copenhagen, DK); F. Weidinger (Vienna, AT)

14:00 ›	Shock. <i>M.H. Picard (Boston, US)</i>	131
14:22 ›	Post surgery. <i>S. Lochy (Lennik, BE)</i>	132
14:45 ›	Extracorporeal support. <i>G. Tavazzi (Pavia, IT)</i>	133
15:07 ›	Post procedural complications. <i>A. Duncan (London, GB)</i>	134

TEACHING COURSES

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COURSE ON TRANSOESOPHAGEAL ECHOCARDIOGRAPHY (TOE)

SCHULZ

Joint session with the European Association of Cardiothoracic Anaesthesiologists (EACTA)



09:00 - 10:30

Transesophageal echo for interventional mitral valve procedures

Chairperson(s): M. Pepi (Milan, IT); S. Stella (Vimodrone, IT)

09:00 ›	TOE for Mitraclip. <i>F. Guarracino (Pisa, IT)</i>	21
09:22 ›	TOE for Cardioband. <i>M. Zuber (Othmarsingen, CH)</i>	22
09:45 ›	TOE for transcatheter mitral valve implantation. <i>M. Swaminathan (Durham, US)</i>	23
10:07 ›	TOE for valve-in-valve procedure in mitral position. <i>E. Agricola (Milano, IT)</i>	24

11:00 - 12:30

Transesophageal echo in acutely altered hemodynamic states

Chairperson(s): P. Wouters (Gent, BE); F. Guarracino (Pisa, IT)

11:00 ›	Intraoperative TOE guided treatment of SAM. <i>P. Wouters (Gent, BE)</i>	69
11:22 ›	Intraoperative TOE guided treatment of hypotension. <i>J. van der Maaten (Onnen, NL)</i>	70
11:45 ›	Transesophageal echo guided treatment of acute hemodynamic failure. <i>S. Bouchez (Ghent, BE)</i>	71
12:07 ›	Transesophageal echo in the mechanically ventilated critically ill. <i>F. Guarracino (Pisa, IT)</i>	72

14:00 - 15:30

Transesophageal echo in aortic disease

Chairperson(s): J. van der Maaten (Onnen, NL); E. Agricola (Milano, IT)

14:00 ›	TOE in acute aortic dissection. <i>J. Bence (GB)</i>	135
14:22 ›	TOE in TEVAR. <i>J. van der Maaten (Onnen, NL)</i>	136
14:45 ›	TOE in thoracic trauma. <i>S. Bouchez (Ghent, BE)</i>	137
15:07 ›	TOE assessment of aortic atherosclerosis. <i>F. Ancona (Milan, IT)</i>	138

TEACHING COURSES

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COURSES ON DISTOLIC FUNCTION

MAHLER

09:00 - 10:30

The essentials of diastolic function assessment

Chairperson(s): B.A. Popescu (Bucharest, RO); J.K. Oh (Rochester, US)

09:00 ›	Physiopathologic bases of diastolic function and filling pressures. <i>A. Klein (Cleveland, US)</i>	25
09:22 ›	Invasive assessment of diastolic function. <i>S. Nagueh (Houston, US)</i>	26
09:45 ›	How to evaluate diastolic function in patients with reduced EF. <i>M. Penicka (Aalst, BE)</i>	27
10:07 ›	How to evaluate diastolic function in patients with normal EF. <i>O. Smiseth (Oslo, NO)</i>	28

11:00 - 12:30

The concept of "myocardial disease" in the diastolic recommendations case-based session

Chairperson(s): O. Smiseth (Oslo, NO); A. Klein (Cleveland, US)

11:00 ›	Diagnostic algorithm when EF is normal in absence of myocardial disease. <i>P. Marino (Novara, IT)</i>	73
11:22 ›	Diagnostic algorithm when EF is normal in presence of myocardial disease. <i>B.A. Popescu (Bucharest, RO)</i>	74
11:45 ›	The concept of "myocardial disease": possible different interpretations. <i>H. Dokainish (Burlington, CA)</i>	75
12:07 ›	Practical implications when applying or not the concept of myocardial disease. <i>M. Galderisi (Naples, IT)</i>	76

14:00 - 15:30

The concept of "myocardial disease" in the diastolic recommendations case-based session

Chairperson(s): F.A. Flachskampf (Uppsala, SE); N. Cardim (Lisbon, PT)

14:00 ›	Atrial fibrillation. <i>E. Galli (Rennes, FR)</i>	139
14:22 ›	Valvular heart disease. <i>J.K. Oh (Rochester, US)</i>	140
14:45 ›	Cardiomyopathies. <i>C. Santoro (Naples, IT)</i>	141
15:07 ›	Coronary artery disease. <i>J.W. Ha (Seoul, KR)</i>	142

TEACHING COURSES

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COURSE ON FOCUS ULTRASOUND

SCHUBERT 6

09:00 - 10:30

FoCUS: introduction and principles

Chairperson(s): **A. N. Neskovic (Belgrade, RS); T. Ishizu (Ibaraki, JP)**

09:00 ›	What is FoCUS: scope and limitations. <i>A. N. Neskovic (Belgrade, RS)</i>	29
09:22 ›	The FoCUS Exam: machines, knobs, and views. <i>A. Salustri (Doha, QA)</i>	30
09:45 ›	Basic lung ultrasound exam. <i>L. Gargani (Pisa, IT)</i>	31
10:07 ›	Handheld ultrasound devices HUD. <i>N. Cardim (Lisbon, PT)</i>	32

11:00 - 12:30

FoCUS targets

Chairperson(s): **D. Pellerin (London, GB); K. Yiangou (Nicosia, CY)**

11:00 ›	Global LV and RV function. <i>J.U. Voigt (Leuven, BE)</i>	77
11:22 ›	Assessment of volume status. <i>H. Skinner (Nottingham, GB)</i>	78
11:45 ›	Assessment of pericardial effusion and tamponade. <i>G. Tavazzi (Pavia, IT)</i>	79
12:07 ›	Gross assessment of heart valves and intracardiac masses. <i>D. Pellerin (London, GB)</i>	80

14:00 - 15:30

FoCUS in clinical scenarios

Chairperson(s): **M. Galderisi (Naples, IT); I. Van Der Bilt (Den Haag, NL)**

14:00 ›	FoCUS in shock and/or dyspnea. <i>F. Guarracino (Pisa, IT)</i>	143
14:22 ›	FoCUS in cardiac arrest and periareast. <i>O.A. Breithardt (Kassel, DE)</i>	144
14:45 ›	When (and why) to call for echocardiography? <i>S. Price (London, GB)</i>	145
15:07 ›	FoCUS: pearls and pitfalls. <i>I. Stankovic (Belgrade, RS)</i>	146

TEACHING COURSES

Follow a whole subject in the same room and prepare the EACVI certification exam !

COURSE ON CONGENITAL HEART DISEASE (CHD)

SCHUBERT 3

09:00 - 10:30

Imaging assessment of the collapsed baby

Chairperson(s): H. Grotenhuis (Utrecht, NL); K. Pushparajah (London, GB)

09:00 ›	Morphology of coarctation and interrupted aortic arches. <i>A. Crucean (Birmingham, GB)</i>	33
09:22 ›	Imaging of coarctation and interrupted aortic arches. <i>X. Iriart (Pessac, FR)</i>	34
09:45 ›	Morphology of hypoplastic left ventricles. <i>A. Crucean (Birmingham, GB)</i>	35
10:07 ›	Imaging of hypoplastic left ventricles. <i>L. Lopez (Palo Alto, US)</i>	36

11:00 - 12:30

Septation Defects

Chairperson(s): To be announced; G. Di Salvo (London, GB)

11:00 ›	Morphology of the atrial septum and its defects. <i>A. Crucean (Birmingham, GB)</i>	81
11:22 ›	How to identify atrial septal defects on imaging. <i>O. Milanesi (Padova, IT)</i>	82
11:45 ›	Morphology of atrioventricular septal defects. <i>A. Crucean (Birmingham, GB)</i>	83
12:07 ›	Pre and post-operative imaging of atrioventricular septal defects. <i>F. Willcoxson (Leeds, GB)</i>	84

14:00 - 15:30

Functional assessment in adult

Chairperson(s): W. Budts (Leuven, BE); H.B. van der Zwaan (Rotterdam, NL)

14:00 ›	How to assess left ventricular systolic function in adult CHD. <i>W. Li (London, GB)</i>	147
14:22 ›	How to assess right ventricular systolic function in adult CHD. <i>J. Bokma (Amsterdam, NL)</i>	148
14:45 ›	How to assess diastolic function in adult CHD. <i>G. Di Salvo (London, GB)</i>	149
15:07 ›	How to assess pulmonary hypertension in adult CHD. <i>A. Van De Bruaene (Leuven, BE)</i>	150

09:00 - 10:30

RAPID FIRE ABSTRACTS

AGORA

What is new in tricuspid regurgitation?**Chairperson(s): T. Le Tourneau (Nantes, FR); G. Athanassopoulos (Pireas, GR)**

Fast paced and interactive session with key messages of 10 abstracts.

- 09:00 › Panel of experts: 37
L.P. Badano (Padova, IT); J. Dreyfus (SaintDenis, FR)
- 09:00 › Prognostic validation of partition values obtained with conventional two-dimensional and doppler echocardiography to grade tricuspid regurgitation severity. 38
M. Previtero, A. C. Guta, R. C. OchoaJimenez, S. Figliozzi, C. Palermo, A. Baritussio, A. Cecchetto, P. Aruta, S. Iliceto, L. P. Badano, D. Muraru (Padua and Milan, IT; Bucharest, RO; New York, US)
- 09:16 › Overview of tricuspid regurgitation (tr). new classification of tr. when severe tr is too severe? 39
J.M. Vieitez Florez, J.M. Monteagudo, P. Mahia, L. Perez, T. Lopez, I. Marco, F. Perone, T. Gonzalez, M. Sitges, A. Bouzas, V. Gonzalez, P. Li, D. Alonso, C. FernandezGolfín, J.L. Zamorano (Madrid, Barcelona, A Coruna and Leon, ES)
- 09:24 › Longterm clinical outcome of functional tricuspid regurgitation. 40
D. Mutlak, J. Lessick, Y. Agmon, D. Aronson (Haifa, IL)
- 09:32 › Geometric change in valvular apparatus during tricuspid repair for severe tricuspid regurgitation. 41
K. Obase, I. Matsumaru, S. Nakaji, T. Miura, K. Eishi (Nagasaki, JP)
- 09:40 › Comparison of different imaging modalities for the quantification of tricuspid valve geometry and regurgitation. 42
C. Ozturk, R. Schueler, M. Weber, G. Nickenig, C. Hammerstingl (Bonn, Essen and Cologne, DE)
- 09:49 › Echocardiographical analysis of right ventricular function after transcatheter edge-to-edge repair of tricuspid regurgitation. 43
C. Ozturk, J. Vogelhuber, D. Reckers, M.U. Becher, G. Nickenig, M. Weber (Bonn, DE)
- 09:57 › Determinants of functional tricuspid regurgitation progression. 44
D. Aronson, J. Lessick, Y. Agmon, D. Mutlak (Haifa, IL)
- 10:05 › Severe secondary mitral regurgitation due to left ventricular non-compaction cardiomyopathy - a rare cause of heart failure. 45
M. Anton, S. Boeangiu, C. Maresiu, D. Penes, O. Geavlete, I. Kulcsar, E. Stoica, R. Radu, E. L. Antohi, O. Chioncel (Bucharest, RO)
- 10:13 › Classic or new echocardiographic parameters in the evaluation of the right ventricular function after tricuspid valve surgery? 46
D. Segura Rodriguez, L.. TorresQuintero, D.J. RodriguezTorres, E. MorenoEscobar, R. GarciaOrta (Granada and Madrid, ES)
- 10:21 › Identification of threshold values to define right chamber enlargement consistent with severe tricuspid regurgitation. 47
M. Previtero, D. Bottigliengo, A. C. Guta, R. C. OchoaJimenez, S. Figliozzi, C. Palermo, A. Baritussio, A. Cecchetto, P. Aruta, S. Iliceto, L. P. Badano, D. Muraru (Padua and Milan, IT; Bucharest, RO; New York, US)

10:30 - 11:00

HOW-TO SESSION

STRAUSS

How to use multimodality imaging to assess right ventricle**Chairperson(s): S. Moharem-Elgamal (Bristol, GB)**

How-to session provides 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.

- 10:30 › Presenter: 48
F.J. Ten Cate (Rotterdam, NL)

OTHER SESSIONS - Morning

11:00 - 12:30

CLINICAL CASES

AGORA

Valvular heart disease

Chairperson(s): A. DeMaria (San Diego, US); F. Bandera (San Donato Milanese, IT)

Young clinicians will present their cases and experts will be asked to moderate the sessions, facilitate interaction with the audience, prompt discussions, challenge the presenters and the audience.

The main objective of the session is to learn from challenging clinical case scenarios.

11:00 ›	Panel of experts: K. Hristova (Sofia, BG)	86
11:08 ›	A gynaecological cause of right heart failure. C.Y. Wong (Hong Kong, HK)	87
11:16 ›	Severe tricuspid regurgitation due to papillary muscle rupture: A rare complication of anterior myocardial infarction and ventricular septal perforation. M. Nagumo, S. Wada, T. Saitou, H. Li, T. Sakai, S. Iwanaga (Kawasaki and saitama, JP)	88
11:24 ›	Simultaneous occurrence of hammock mitral valve and nocompaction cardiomyopathy. D. Rodrigo, U. Estandia, P. Perez, C. Perez, A. Cortes, E. Panera (Baracaldo, ES)	89
11:32 ›	Transient severe mitral regurgitation caused by an exclusively dopamine secreting paraganglioma. J. Stassen, J. Verwerft, D. Stroobants, L. Herbots (Hasselt, BE)	90
11:40 ›	Mitral fracking: an unusual complication of infective endocarditis. M. Cespon Fernandez, M. Basalo Carbajales, I. Munoz Pousa, E. Blanco Gonzalez, R. Bilbao Quesada, M. Castineira Busto, C. Gonzalez Rios, T.M. Matajira Chia, P. Pazos Lopez, F. Calvo Iglesias (Pontevedra, ES)	91
11:49 ›	Aortopulmonary fistula complicating native aortic valve endocarditis. C. Kapelios, M. Bonou, E.D. Papadimitraki, M. Skouloudi, K. Masoura, I. Moyssakis, J. Barbetseas (Athens, GR)	92
11:57 ›	A hemodynamic challenge in assessment of echocardiographic mitral regurgitation severity. J. Ferreira, J. Morais, H. Ferreira, D. Roque, M. Beringuilho, D. Faria, A. Freitas, C. Morais (Amadora, PT)	93
12:05 ›	When the gut affects the heart. A. Elmaghraby, N. Kumar, Z. Lengyel, W. Francis, M. Al Kuwari, S. Chinnakaruppan, M. Petkar, A. Salustri (Doha and Al Khor, QA)	94
12:13 ›	A rare case of Lactobacillus Plantarum prosthetic valve endocarditis. A. Tavernese, F. Caldara, S. Muscoli, M. Stelitano, G. Uccello, A. Mauceri, R. Mollace, P. Sordillo, M. Andreoni, F. Romeo, V. Cammalleri (Rome, IT)	95
12:21 ›	Paravalvular Petticoat: A Case Report and Review. P.C. Wiener, J.N. Codolosa, G. Pressman (Philadelphia and St. Petersburg, US)	96

11:00 - 12:30

WORKSHOP

BERG

Focus on mitral valve disease (native and prosthetic)

Workshop on Transoesophageal Echocardiography (TOE)

To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment

11:00 ›	Presenters: M.M. Gurzun (Bucharest, RO)	85
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12:45 - 13:45 SATELLITE SYMPOSIUM STEINER

State of the art contrast echo in clinical practice: A proven impact on diagnostic outcomes.

Sponsored by Lantheus Medical Imaging Inc.

Chairperson(s): R. Senior (London, GB)

Learn how contrast echo improves cardiac diagnosis, patient management and costeffectiveness in patients across healthcare settings:

- Gain practical insight into the implementation and administration of contrast in rest and stress echocardiography.
- Learn how to incorporate established guidelines and standards for contrast echocardiography into daily practice.
- Understand how contrast echocardiography can improve workflow and contribute to improved patient care.
- Recognize the important role contrast has in qualitydriven echocardiography.

12:45 ›	Incorporating contrast echocardiography guidelines into daily clinical practice. R. Senior (London, GB)	97
13:05 ›	The impact of contrast echocardiography on cardiac diagnosis and patient management. A. Abbas (Michigan, US)	98
13:25 ›	Practical insight into the implementation and administration of contrast in rest and stress echocardiography. E. Altiok (Aachen, DE)	99

12:45 - 13:45 SATELLITE SYMPOSIUM HAYDN

Latest innovations in echocardiography

Sponsored by GE Healthcare

Chairperson(s): B.A. Popescu (Bucharest, RO)

12:45 ›	Myocardial work in dilated cardiomyopathy. E. Donal (Rennes, FR)	1901
13:05 ›	What is new in Echo Imaging for the Cathlab? M. Fijalkowski (Gdansk, PL)	1902
13:25 ›	Advanced 4D Analysis. J.D. Kasprzak (Lodz, PL)	1903

12:45 - 13:45 MODERATED POSTERS MODERATED EPOSTERS 1

Best of HIT

Chairperson(s): L.E. Sade (Ankara, TR); V. Delgado (Leiden, NL)

Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 09:00 to 16:00. Presentation and discussion moderated by the chairpersons take place between 12:45 - 13:45.

Association of age-related left atrial remodeling with ischemic stroke in patients with normal sinus rhythm.	100
F. Bianco, R. De Caterina, A. Chandra, A. Goncalves, I. Aquila, S.D. Solomon, L.Y. Chen (Chieti, Pisa and Catanzaro, IT; Boston and Minneapolis, US)	
Semiautomated volumestrain loops: a new tool in TTE to assess diastolic dysfunction.	101
A. Hubert, V. Le Rolle, E. Galli, A. Hernandez, E. Donal (Rennes, FR)	
Different mechanics of septal and lateral walls and their effects on left ventricular ejection fraction in patients with left bundle-branch block.	102
K. Kupczynska, K.A. Nguyen, E. Surkova, C.H. Palermo, F. Sambugaro, M. Previtero, L.P. Badano, D. Muraru (Padua and Milan, IT; London, GB)	
Normal values and gender differences of left atrial volumes.	103
P. Selmer Roenningen, T. Berge, M.G. Solberg, S. Enger, S. Nygaard, O. Pervez, E.B. Orstad, B.A. Kvisvik, E.N. Aagaard, M.N. Lyngbakken, H. Rosjo, A. Tveit, K. Steine (Baerum, Oslo and Akershus, NO)	

Left ventricular stroke volume differences among echocardiographic methods in healthy adults from the World Alliance of Societies of Echocardiography (WASE) Normal Values Study.	104	WEDNESDAY SESSIONS
<i>T. Miyoshi, K. Addetia, A. Blitz, R. Lang, F. Asch (Washington, DC and Chicago, US; Unterschleissheim, DE)</i>		
Impact of global left ventricular afterload and transaortic gradient on myocardial work in patients with aortic stenosis and preserved ejection fraction.	105	WEDNESDAY POSTERS
<i>F. Ilardi, R.E. Dulgheru, S. Marchetta, S. Cimino, M. Cicenja, P. Lancellotti (Liege, BE)</i>		
Mitral annulus calcification: potential indicator of vascular disease and higher thromboembolic risk.	106	WEDNESDAY POSTERS
<i>S. Radu, S. Al Shurbaji, G. Mircea, A. Ouatu, D.M. Tanase, M. Floria (Iasi, RO)</i>		
Low-flow low-gradient aortic stenosis: aortic valve area estimated by continuity equation versus simplified method of projected aortic valve area.	107	WEDNESDAY POSTERS
<i>J.A. Da Conceicao Pedro Pais, P. Fazendas, A. Marques, K. Congo, A.C. Gomes, A.R. Pereira, A.R. Gomes, I. Cruz, I. Joao, H. Pereira (Evora, Almada and Vila Franca de Xira, PT)</i>		

12:45 - 13:45

MODERATED POSTERS

MODERATED EPOSTERS 2

Imaging: myocardial - pericardial disease

Chairperson(s): I.P. Monte (Catania, IT); J. Separovic Hanzevacki (Zagreb, HR)

Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 09:00 to 16:00. Presentation and discussion moderated by the chairpersons take place between 12:45 - 13:45.

Uncommon cardiac fatty distribution: a case report.	108	THURSDAY POSTERS
<i>B. Redondo Bermejo, M.M. De La Torre Carpentel, J.C. Munoz San Jose, T. Escudero Caro, M. Acuna Lorenzo, E. Guillem Ares, M. Revilla Martinez, M.J. Rollan Gomez (Valladolid, ES)</i>		
Anderson Fabry disease in CMR: twins by traditional tissue characterization, different by parametric mapping.	109	THURSDAY POSTERS
<i>C. Cavallaro, A. Barison, N. Martini, A. Meloni, G. Todiere, G. Aquaro, A. Pepe (Pisa, IT)</i>		
A case of a pendulum heart.	111	FRIDAY SESSIONS
<i>A. El Gohary (Giza, EG)</i>		
Echocardiographic assessment of right ventricular outflow tract obstruction in hypertrophic cardiomyopathy - efficacy of dual chamber pacing in reducing of gradient.	113	FRIDAY POSTERS
<i>A. Wojtkowska, R. Zarczuk, W. Brzozowski, S. Lukasik, M. Tomaszewski, E. CzekajskaChehab, A. Wysokinski, A. Tomaszewski (Lublin, PL)</i>		
A case of progressive wall thinning of apical myocardium in 5 yearold boy with hypertrophic cardiomyopathy.	114	FRIDAY POSTERS
<i>J.W. Jung (Seoul, KR)</i>		

14:00 - 15:30 WORKSHOP BERG

Focus on aortic valve disease (native and prosthetic)

Workshop on Transoesophageal Echocardiography (TOE)

To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment

14:00 > Presenters: L.E. Sade (Ankara, TR) 151

14:00 - 15:30 RAPID FIRE ABSTRACTS AGORA

Systolic and diastolic function

Chairperson(s): S. Nagueh (Houston, US); A. Klein (Cleveland, US)

Fast paced and interactive session with key messages of 10 abstracts.

14:00 > Panel of experts: 152
A.M.G. Almeida (Lisbon, PT); P. Marino (Novara, IT)

14:08 > Multiparametric assessment of diastolic function in heart failure. 153
T. Uejima, J. Cho, H. Hayama, L. Takahashi, J. Yajima, T. Yamashita (Tokyo, JP)

14:16 > Can we improve the accuracy and reproducibility of left ventricular ejection fraction from 2D echocardiography using artificial intelligence? A validation against cardiac magnetic resonance. 154
A. Popoff, H. Langet, P. Piro, C. Ropert, P. Allain, R. Gauriau, G. Pizaine, M. De Craene, B. Gerber, E. Saloux (Suresnes and Caen, FR; Brussels, BE)

14:24 > Myocardial work in hypertension and mitral regurgitation-insights from non-invasive assessment of left ventricular pressure-strain relations. 155
F. Loncaric, M. Marciniak, L. Nunno, J.F. Fernandes, M. Mimbreno, L. Tirapu, D. Fabijanovic, L. Sanchis, A. Doltra, M. Cikes, P. Lamata, B. Bijnsens, M. Sitges (Barcelona, ES; London, GB; Zagreb, HR)

14:32 > Shear wave propagation velocity after aortic valve closure could be a novel parameter for myocardial contractility. 156
S. Bezy, M. Cvijic, A. Petrescu, M. Orlowska, P. Santos, J. Duchenne, B. Chakraborty, J. Pedrosa, J. D'hooge, J.U. Voigt (Leuven, BE)

14:40 > Reduced non-invasive myocardial work predicts significant coronary artery disease. 157
J. Sabatino, I. Leo, D. De Rosa, A. Polimeni, S. Sorrentino, C. Spaccarotella, A. Mongiardo, I. Aquila, G. Di Salvo, C. Indolfi (Catanzaro, IT; London, GB)

14:49 > Myocardial work exposes afterload-dependent changes in strain. 158
O.J. Sletten, J. Aalen, F.H. Khan, C.K. Larsen, K. Inoue, E.W. Remme, J. Hisdal, O.A. Smiseth, H. Skulstad (Oslo, NO; Ehime, JP)

14:57 > LV volumes, EF, MAPSE, myocardial mass and systolic compression and relation to ageing. Results from the HUNT study. 159
A. Stoylen, H.E. Molmen, H.E. Dalen (Trondheim and Horten, NO)

15:05 > Echocardiographic assessment of CRT candidates. Does additional scar evaluation by MRI improve prediction of response? 160
J. Duchenne, M. Cvijic, C.K. Larsen, E. Galli, J.M. Aalen, G. Voros, A.S. Beela, S. Unlu, M. Penicka, E. Hopp, J. Bogaert, O.A. Smiseth, E. Donal, J.U. Voigt (Leuven and Aalst, BE; Oslo, NO; Rennes, FR)

15:13 > Impact of right ventricular dysfunction on outcome in heart failure patients with mid-range ejection fraction with and without chronic respiratory diseases. 161
D. Liu, K. Hu, C. Scheffold, F. Liebner, M. Kirch, B. Lengenfelder, G. Ertl, S. Frantz, P. Nordbeck (Wurzburg, DE)

15:21 > Right ventricular function: is longitudinal strain by speckletracking an option? 162
A. Azul Freitas, C. Ferreira, J. Milner, J. Ferreira, P. Alves, V. Marinho, R. Martins, R. Baptista, E. Jorge, L. Goncalves (Coimbra, PT)

15:30 - 16:00 HOW-TO SESSION STRAUSS

How to not miss hypertrophic cardiomyopathy

Chairperson(s): G. Vinco (Verona, IT)

How-to session provides 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.

15:30 > Presenter: D. Pellerin (London, GB) 163

15:30 - 16:00

SPECIAL SESSION

AGORA

The research in imaging in the world - ASE and JSE YIA Winners

Chairperson(s): M. Swaminathan (Durham, US); G. Habib (Marseille, FR)

The 2019 Young Investigator Awardees from US (American Society of Echocardiography ASE) and Japan (Japanese Society of Echocardiography JSE) will present their winning research.

- 15:30 > ASE: Young Investigator Awardee presentation: "Cardiac ultrasonic fingerprinting: a radiomics approach for high-throughput feature phenotyping of dysfunctional myocardium". 164
N. Kagiya (Morgantown, US)
- 15:42 > Discussion.
- 15:45 > JSE: Young Investigator Awardee presentation: "Clinical value of regional right ventricular wall motion abnormalities assessed by three-dimensional speckle-tracking echocardiography in patients with pulmonary hypertension". 165
H. Moriyama (Tokyo, JP)
- 15:57 > Discussion.

16:00 - 17:30

SPECIAL EVENT

MOZART

Inaugural session
Chairperson(s): T. Edvardsen (Oslo, NO); B. Cosyns (Brussels, BE)

Welcome Address by the EACVI President.

T. Edvardsen (Oslo, NO)

ESC Presidential Welcome.

B. Casadei (Oxford, GB)

Welcome Address by the Local Hosts.

J. BerglerKlein (Vienna, AT)

Scientific programme highlights.

M. Galderisi (Naples, IT)

Introduction of the Edler Lecture presenter.

T. Edvardsen (Oslo, NO)

Edler Lecture: "Imaging valve disease: the whole is better than the sum of its parts".

P. Lancellotti (Liege, BE)

Presentation of Edler Diploma.

B. Cosyns (Brussels, BE); T. Edvardsen (Oslo, NO)

Presentation of Honorary Member Geneviève Derumeaux.

T. Edvardsen (Oslo, NO)

Presentation from new Honorary Member.

G. A. Derumeaux (Creteil, FR)

Presentation of Honorary Member Luc Pierard.

B. Cosyns (Brussels, BE)

Presentation from new Honorary Member.

L. Pierard (Liege, BE)

EACVI Research and Training Grant Winners.

G. Di Salvo (London, GB); B. Cosyns (Brussels, BE)

Opening Address.

T. Edvardsen (Oslo, NO)

• Wednesday Posters

HIGH SCORE POSTERS:

Look out for these abstracts acknowledged
by the reviewing committee



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EACVI 2020

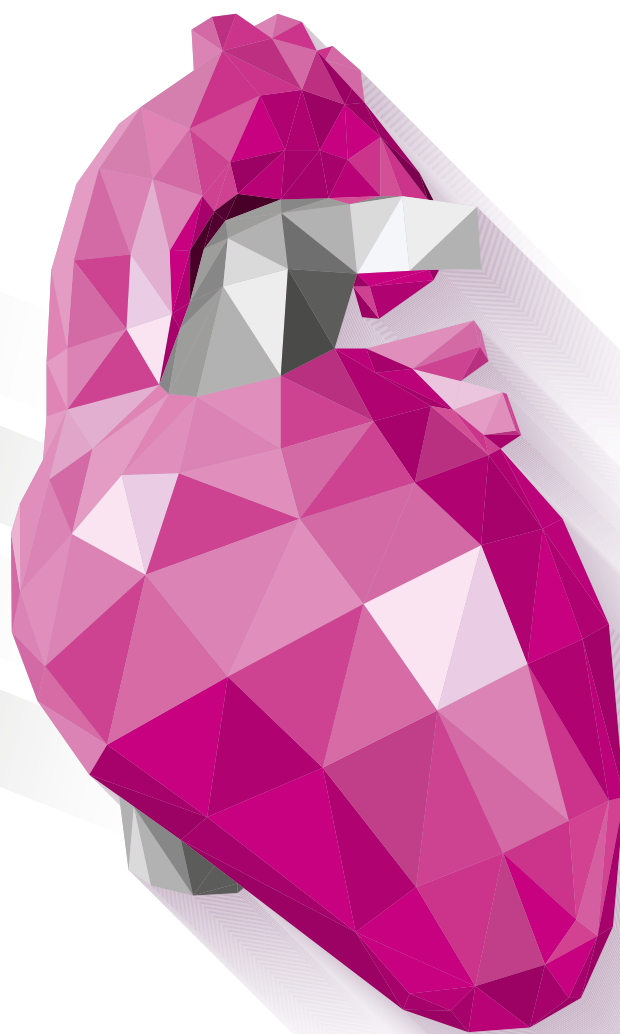
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European Society
of Cardiology

POSTERS SESSIONS

09:00 - 16:00

POSTER SESSION

POSTER AREA

Heart Imagers of Tomorrow (HIT) Clinical Case Poster session 1

All posters are on display from 09:00 to 16:00.

From 12:45 to 13:45 - Meet the presenters by their poster.

Lunch time HIT Clinical Case Poster hosts 12:45 13:45.

*C. Beladan (Bucharest, RO); G. Maurer (Vienna, AT); A. Calin (Bucharest, RO); C. Sousa (Porto, PT);
M. Miglioranza (Porto Alegre, BR); L. Galian Gay (Barcelona, ES)*

The burden of posttactinic heart disease: a case of severe valvular and coronary artery disease in a cancer survivor.

N. Bettella, M. Previtero, A. Ruocco, D. Muraru, S. Illiceto, L. P. Badano (Padua and Milan, IT)

Nonbacterial endocarditis in patients with antiphospholipid syndrome treated with direct oral anticoagulants.

*I. Munoz Pousa, F.E. Calvo Iglesias, M. Cespon Fernandez, E. Lopez Rodriguez, G. Pradas Montilla,
J.J. Legarra Calderon, J.J. Fernandez Martin (Vigo, ES)*

Uterine leiomyoma extension into right side cardiac.

K. Diniz Ferrer, C. Silveira, A. Reis, P. Abreu E Lima, R. Diniz, C. Navarro, J. Silva, M. Melo (Recife, BR)

A long history of recurrent strokes due to hypereosinophilic syndrome and recurrent native and prosthetic mitral valve thrombosis.

A. Bouslimi, S. Antit, S. Chenik, L. Zakhama, S. Ben Youssef (La Marsa and Tunis, TN)

Catastrophic systemic multiple embolism from a giant atrial mixoma: a case report.

*D. Cocco, T. GonzalezVargas, L. Valentino, S. Cossa, G. Matta, C. Manieli, G. Locci, S. Tocco,
E.M. Cirio (Cagliari, IT; Granada, ES)*

Uncommon reason for right-sided heart failure.

Z. Mladenovic, S.O. Obradovic, I.R. Ilic, D.J.L.J. Djenic, V.D. Vranes, D.J.P. Djuric, J.Z. Jovic (Belgrade, RS)

When the heart doesn't want to grow up.

*A. Carrer, S. Civera, D. Muraru, L. Videsott, F. Sambugaro, M. Perazzolo Marra, M. De Lazzari,
S. Illiceto, L.P. Badano (Padua, IT)*

Left atrial myxoma presenting in a cystic form.

B. Yagmur, E. Simsek, M. Ozbaran, C. Soydas Cinar (Izmir, TR)

Cardiac device infection: to extract or not to extract, that is the question.

*J.P. Dias Ferreira Reis, T. Mano, B. Valente, A. Monteiro, P. Silva Cunha, M. Oliveira,
T. Pereira Da Silva, R. Soares, P. Rio, L. Moura Branco, R. Ferreira (Lisbon, PT)*

Tissue Doppler for right ventricular function (RVF) evaluation in patients with high blood pressure (HBP).

S. Latreche Sekoum, N. Methia, M. Djouhri, M. Abouteir, S. Benkhedda (Algiers and ALGER, DZ)

Dissecting ventricular septal hematoma; a rare complication of acute myocardial infarction.

I. Etman, H. Abdelgawad (Alexandria, EG)

Pulmonary valve stenosis and pulmonary trunk aneurysm in old female with syncope.

C. Fiore, A.M.F. Ali, T. Kemalolu Oz, G. Cagnazzo, M. Melone, K.V. Farahani (Lecce, IT; Ismailia, EG; Istanbul, TR)

An uncommon mechanism of severe mitral regurgitation due to infective endocarditis mimicking myocardial infarction.

A. Collevocchio, G. Simeti, M. Previtero, S. Illiceto, D. Muraru, L.P. Badano (Padua and Milan, IT)

Bleeding complications in a renduoslerweber syndrome patient with atrial fibrillation challenging serial transoesophageal echocardiography.

*T. Branco Mano, L. Moura Branco, R. Ramos, A. Fiarresga, A.T. Timoteo, A. Galrinho, J. Abreu, L. Castro,
N. Duarte Silva, R. Ilhao Moreira, A. Valentim Goncalves, R. Cruz Ferreira (Lisbon, PT)*

Cor medusae.

M. Vladova, I. Tasheva, Y. Simova, I. Petrov, P. Polomski, M. Mihailov (Sofia, BG)

Broken heart complications.	P184
<i>A. Azul Freitas, C. Ferreira, J. Milner, J. Ferreira, V. Marinho, P. Alves, E. Jorge, L. Goncalves (Coimbra, PT)</i>	
Primary cardiac lymphoma: an unexpected finding.	P185
<i>A. Riesgo, J. Ibero, M. Rodriguez, F. De La Torre, J. Muniz, A. De La Fuente, N. Salterain, I. Diaz, J.J. Rifon, G. Bastarrika, J.J. Gavira (Navarra, ES)</i>	
In search of lost time.	P186
<i>C. Ureche, S. Ailoei, L. Tapoi, A. Clement, S. Boca, A. Cazacu, M. Grecu, R. Sascau, C. Statescu (Iasi, RO)</i>	
Multimodality in tuberculous constrictive pericarditis.	P187
<i>A. Leite De Barros Filho, H. T. Moreira, M. K. Santos, A. Schmidt, R. C. Santana, A. J. Rodrigues, B. C. Maciel, J. A. MarinNeto, M. M. D. Romano (Ribeirao Preto, BR)</i>	
Coronary fistula.	P188
<i>I. Kangelidis, G. Spiromitros (Katerini, GR)</i>	
Duplication of the tricuspid valve (DOTV): case report of a rare congenital anomaly.	P189
<i>S. Moscatelli, G. Trocchio, N. Stagnaro, A. Siboldi, M. Derchi, H. Nuri, G. Pome', M. Marasini (Genoa and Genova, IT)</i>	
Chest pain and syncope in Turner's syndrome: going beyond the obvious to not miss the critical diagnosis. Role of multimodality imaging approach.	P190
<i>A. Ruocco, M. Previtero, N. Bettella, D. Muraru, S. Iliceto, L. P. Badano (Padua, IT)</i>	
Pellets in righth ventricle. Without entry point?	P191
<i>G. Pinillos Francia, A. Gutierrez Fernandez, L. Alvarez Roy, I. Ruiz Zamora, M. Gomez Llorente, E. Sufrate Sorzano, L. Alonso Perez, P. Aguiar Souto, P.M. Azcarate Agüero (Logroño, ES)</i>	

09:00 - 16:00

POSTER SESSION

POSTER AREA

Heart Imagers of Tomorrow (HIT) Poster session 1

All posters are on display from 09:00 to 16:00.

From 12:45 to 13:45 - Meet the presenters by their poster.

Lunch time Heart Imagers of Tomorrow poster hosts 12:45 13:45.

*A. Fraser (Cardiff, GB); N. Ajmone Marsan (Leiden, NL); K. Haugaa (Oslo, NO);
L. Baghdasaryan (London, GB); G. Benfari (Verona, IT); M.M. Gurzun (Bucharest, RO)*

Echocardiographic prognosis score and stratification of the risk of major cardiovascular events after acute coronary syndrome.

F. Menzou, N. Laraba, M. Ait Ali, M. Krim (Blida and Algiers, DZ)

Changes in left atrial function in patients one year follow up after radiofrequency catheter ablation for paroxysmal atrial fibrillation.

D. Djikic, N. Mujovic, A. Kocijancic, M. Polovina, M. Marinkovic, V. Kovacevic, V. Peric, D. Rasic, D. Simic (Belgrade and Pristina, RS)

Postinfarction myocardial remodelling according to 2D ECHO data and genetic predictors: effect of genetic common variants in HSPB7 and MADD genes.

A. Kuular, A. A. Gamza, A. M. Ulitin, V. M. Tishkova, A. S. Muraviev, A. A. Kozyreva, E. A. Lyasnikova, A. A. Kostareva, M. Y.U. Sitnikova (Saint Petersburg, RU)

Effect of tofogliflozin on systolic and diastolic cardiac function in type 2 diabetic patients.

K. Matsumura, M. Otagaki, T. Sugiyura, H. Park, Y. Yamamoto, I. Shiojima (Moriguchi and Hirakata, JP)

Assesment of cardiac function during trastuzumab therapy in HER2 positive breast cancer patients.

I. Krstic, M. Deljanin Ilic, I. Pejic, S. Vrbic, D. Marinkovic (Nis, RS)

Longterm outcomes after mitracclip implantation.

J.P. Dias Ferreira Reis, L. Moura Branco, L. Almeida Moraes, R. Ilhao Moreira, P. Rio, A. Galrinho, A. Fiarresga, D. Cacula, R. Ferreira (Lisbon, PT)

Mitral valve annular disjunction prevalence and significance amongst patients with mitral valve prolapse.

G. Faia Carvalho Dias, B. Faria, P. Von Hafe, A.F. Cardoso, O. Azevedo, M. Fernandes, S. Leite, F. Cordeiro, F. Castro, M. Lourenco, F. Almeida, A. Lourenco (Guimaraes, PT)

The impact of left ventricle ejection fraction on long-term outcome in patients with high and low-gradient severe aortic stenosis data from ASRegistry.

A. Strozyk, J. Marlega, M. Nowak, R. Galaska, M. Fijalkowski (Gdansk, PL)

Cost-effectiveness analysis of 3D versus 2D transesophageal echocardiography for the evaluation of patients with primary mitral regurgitation with indication of surgical treatment.

M. Miglioranza, D. Le Bihan, M.V.C. De Resende, W.P. Oliveira Jr, C.G.O. Nunes, R.C. Lucchetta, W.M. Dos Santos, P. Holanda, M.P. Rosim, L. Okumura, M.E. Nita, B. Riveros, G.O. Pedro, M. Vieira (Porto Alegre and São Paulo, BR)

Two-dimensional and threedimensional transesophageal echocardiography in the diagnosis of infective endocarditis of native and prosthetic valves.

L. Capotosto, G. Tanzilli, E. Mangieri, M.R. Ciardi, C. Gaudio, F. Miraldi, V. Vullo, A. Vitarelli (Rome, IT)

Prognostic value of deformation parameters in stemi patients with preserved left ventricular ejection fraction.

V. Oleinikov, V. Galimskaya, S. Kupriyanova, A. Golubeva (Penza, RU)

Recovery of left atrial function after restoration of sinus rhythm in patients with atrial fibrillation.

K. Kupczynska, B. Michalski, D. Miskowicz, P. WejnerMik, K. WierzbowskaDrabik, P. Lipiec, J.D. Kasprzak (Lodz, PL)

Maternal left ventricular global longitudinal strain correlates with parameters of fetal intrauterine growth and uteroplacental hemodynamics.

C. Palermo, D. Muraru, L. Badano, E. Balducci, S. Carli, P. Aruta, A. De Virgilio, F. Pinto, E. Cosmi, S. Visentin (Padua and Milan, IT)

Immediate impact of coronary revascularization on global and regional myocardial function evaluated by speckle tracking echocardiography.	P206
<i>W.W. Chen, Q.B. Zhu, E.L. PosadaMartinez, X.A. OrtizLeon, J. Pereira, M.L. Dewar, U.M. Darr, A. Geirsson, L. Sugeng (New Haven, US)</i>	
Adjunctive application of handgrip exercise associated with rapid pacing stress echocardiography in patients with implanted pacemakers.	P207
<i>P. Gosciniak, T. Puzik, M. Leciej, E. Plonska (Szczecin, PL)</i>	
Abnormal coronary flow reserve assessed with stress echocardiography induces a reduction in transmural strain gradient and an increase in heterogeneous myocardial electrical activation.	P208
<i>J.D. Sierra Lara M, H. Rodriguez-Zanella, O. Calvillo, E.L. Posada, X.O. Ortiz, C. Arroyo, G. Raymundo, M.E. Ruiz Esparza, J.F. Fritche, K. WierzbowskaDrabik, N. Gaibazzi, E. Picano, J.A. Arias (Mexico City, MX; Lodz, PL; Parma and Pisa, IT)</i>	
Mitraclip - experience of a portuguese tertiary care center midterm review of results.	P209
<i>J.P. Dias Ferreira Reis, L. Moura Branco, L. Almeida Moraes, R. Ilhao Moreira, P. Rio, A. Galrinho, A. Fiarresga, D. Cacula, R. Ferreira (Lisbon, PT)</i>	
The influence of the right ventricle on the right atrium: a speckle tracking echocardiography study.	P210
<i>M. Zehnpfennig, C. Braun, K. Kupczynska, J.D. Kasprzak, B. Michalski, P. WejnerMik, K. WdowiakOkrojek, E. Szymczyk, P. Lipiec (Lodz, PL)</i>	
Short term impact of hemodialysis on right ventricular systolic function and pulmonary artery pressure in patients with end stage renal disease.	P211
<i>A.M.F. Ali, A. Salama, I. Abd El Aziz, H. Kamal (Ismailia, EG)</i>	
Computed tomography derived left ventricular outflow tract area downgrades severity of prosthesispatient mismatch after transcatheter aortic valve replacement.	P212
<i>M. Fukui, L. Tiang, J. Lesser, H. Niikura, M. Nunes, M. Burns, L. Schneider, K. Han, S. Garcia, M. Goss, P. Sorajja, J. Cavalcante (Minneapolis, US)</i>	
Left atrial function index can be a predictor of arrhythmia recurrence in patients with paroxysmal atrial fibrillation.	P213
<i>H. Rus, E. Bobescu, I.N. Ranga (Brasov, brasov and Bucharest, RO)</i>	
Clinical audit of inpatient echocardiography in acute heart failure: real world data from a tertiary hospital.	P214
<i>C. Monteiro, A. Cojoianu, R. Savage, R. Bone, C. Hammond, J. Gamble, J. Newton (Oxford, GB; Dublin, IE)</i>	
Effects of ARNI therapy on left atrial and ventricular longitudinal deformation and functional capacity in HFrEF patients	P215
<i>G.E. Mandoli, L. Spera, A. Giannoni, F. Cassano, E. Incampo, C. Borrelli, P. Sciarrone, C. Taddei, M. Emdin, S. Mondillo, M. Cameli (Siena and Pisa, IT)</i>	
Cardiac amyloidosis is not a single disease: an echocardiographic study of light chain vs transthyretin forms.	P216
<i>R.D. Adam, A. Jercan, S. Badelita, D. Coriu, C. Stan, M. Serban, C. Beladan, M. Rosca, A.M. Balahura, C. Ginghina, B.A. Popescu, R. Jurcut (Bucharest, RO)</i>	
Clinical evaluation and imaging parameters in different cardiac amyloidosis types: ATTR wild type amyloidosis, the silent enemy.	P217
<i>I. Dentamaro, A. Lopez Sainz, R. FernandezGalera, I. Silveira, L. Rodriguez, F. Valente, V. Pineda, G. Teixido, A. Guala, H. Cuellar, A. SaoAviles, A. Evangelista, J.F. RdriguezPalomares (Barcelona, ES)</i>	
Accuracy and reproducibility of aortic root assessment by eSie Valves in patients candidate to transcatheter aortic valve implantation: a comparative study with computed tomography.	P218
<i>G. Granata, A. Veltri, S. Iuliano, V. Romano, S. Stella, C. Capogrosso, F. Ancona, G. Ingallina, F. Melillo, M. Montorfano, E. Agricola (Caserta, Rome and Milan, IT)</i>	
The role of colorcoded duplex sonography in evaluating coronarysubclavian steal syndrome.	P219
<i>P. Antova, T.S. Tsvetanov, V. Gelev, M. Staneva (Sofia, BG)</i>	

09:00 - 16:00

POSTER SESSION

POSTER AREA

Clinical case poster session 1

All posters are on display from 09:00 to 16:00.

From 12:45 to 13:45 - Meet the presenters by their poster.

Echocardiography: Dimensions, Volumes and Mass

Behcet's disease with right ventricular aneurysm.

P. Stoodley, D. Tanous (Sydney, AU)

P220

Echocardiography: Valve Disease

Carcinoid heart disease.

A. Tyminska, D. Kaczmarek, A. Kaplon-Cieslicka, J. Kochanowski, P. Scislo, T. Bednarczyk, G. Opolski (Warsaw, PL)

P221

Pycnodysostosis and cardiac congenital defects: a rare association.

I. Almeida, H. Miranda, H. Santos, M. Santos, J. Chin, S. Almeida, J. Tavares (Barreiro, PT)

P222

Cat bite with unexpected consequences.

M. Moser, A. Koenig, V. Dannenberg, W. Speidl, M. Riesenhuber, J. Bergler-Klein, T. Binder, H. Gabriel, M. Schneider (Vienna, AT)

P223

Valvuloplasty treatment and threedimensional analysis for isolated cleft of the anterior mitral valve leaflet: a case report.

T. Ota, Y. Murakami, Y. Kozuka, C. Ohshiro, N. Kihara, Y. Gunji, S. Hattori, K. Noguchi (Kamakura, JP)

P224

Carcinoid heart disease: report of a case in a patients with trombocytopenia absent radius.

M. Quezada, R. Ayala, M. Ramos, Z. Villa Benayas, M. Calderon Dominguez, R. Toro (Madrid and Cádiz, ES)

P225

Caseous calcification of the mitral annulus: a silent cause of intracardiac mass.

I. Campos, C. Galvao Braga, A. Costeira Pereira, N. Salome, C. Vieira, V.H. Pereira, C. Costa Oliveira, C. Marques Pires, P. Medeiros, R. Flores, F. Mane, J. Marques (Braga, PT)

P226

Association between quadricuspid aortic valve and severe organic mitral regurgitation.

S.M. Binno, A. Barbarossa, A. Malagoli, L. Moderato, G. Pastorini, G.Q. Villani (Piacenza, Ancona, Modena and Parma, IT)

P227

Mitral valve aneurysm in the context of postinfective endocarditis in hypertrophic cardiomyopathy: an issue of inflammation or pressure gradients?

I. Pereira Oliveira, D. Seabra, A. Neto, I. Cruz, G. Abreu, J. Azevedo, P. Pinto (Penafiel, PT)

P228

Echocardiography: Masses and Sources of Emboli

Primary cardiac angiosarcoma of the right atrium: a rare entity presenting with an atrial arrhythmia.

P. Garcia Bras, S. Aguiar Rosa, L. Ferreira, L. Moura Branco, A. Castelo, V. Vaz Ferreira, J. Branco Ferrao, F. Martins, L. Sousa, A. Fiarresga, E. Pinto, R.C. Ferreira (Lisbon, PT)

P229

Pulmonary embolism due to hepatocellular carcinoma: a rare presentation.

M. Hassan Abdelnabi, Y. Saleh, A. Almaghraby, O. Tok, H. Shehata, S. Abdel Samad (Alexandria, EG; East Lansing, US; Istanbul, TR)

P230

Cardiac metastasis mimicking a myocardial infarction.

A. Chiampan, L. Lanzoni, L. Lanzoni, E. Adamo, E. Adamo, C. Dugo, C. Dugo, S. Bonapace, S. Bonapace, F. Castagna, F. Castagna, E. Barbieri, E. Barbieri (Negrar, IT)

P231

A cardiac thrombus... or maybe not.

C.C. Oliveira, C. Quina, I. Campos, C. Rodrigues, P. Medeiros, C. Braga, A. Costeira, J. Marques, P. Pinho (Braga and Porto, PT)

P232

A new onset pulmonary artery stenosis in a young man. P233
V. Scheggi, C. Mazzoni (Florence, IT)

Giant right atrial myxoma presenting as right heart failure. P234
G. Carazo Vargas, J.A. Fuentes Mendoza, M.E. Ruiz Esparza (Mexico City, MX)

A happy ending for a dancing thrombus on the right atrium. P235
J. Ferreira, A. Freitas, R. Gomes, D. Faria, M. Beringuilho, D. Roque, C. Morais (Amadora and Vila Franca de Xira, PT)

Pinball game over. P236
R. Carvalho, C. Antunes, A. Miragaia, J. Guardado, J. Morais (Leiria, PT)

Invisible cause of obviously visible lesion. P237
R. Parikh, M. Dhavalagimath, A. Patel (Anand and Nashik, IN)

Chemotherapy venous access port endocarditis in a patient with breast cancer. P238
A. Siam, M. Iliopoulou, A. Kalogeris, A. Tsoukas, A.J. Manolis (Athens, GR)

Total artificial heart implantation as a bridge to candidacy an approach to treating primary cardiac sarcoma? P239
J. AtenskaPawlowska, A. Chrapowicka, A. Juraszek, J. Szymanski, J. Kuriata, H. Siudalska, M. Kusmierczyk (Warsaw, PL)

Doppler Echocardiography

Thebesian veins draining to the left ventricle mimicking left ventricular noncompaction. P240
K. DurrerAriyakuddy, B. W. De Boeck, F. Cuculi, R. Kobza, S. F. Staempfli (Lucerne, CH)

Contrast Echocardiography

Impact of bubble contrast study in diagnosis and improvement of quality of life in familial pulmonary arteriovenous malformation. P241
M. Muhammad, Z. Rashid, S. Sadqani (Karachi, PK)

When there is no time for further imaging. P242
F. Ata, A. Abdelrahman, E. Othman, G. Abushahba (Doha, QA)

A rare association of isolated persistent left superior vena cava(PLSVC) with anomalous right coronary artery (RCA) in a symptomatic patient. Role of saline contrast echo (SCE) with multimodal imaging. P243
G. Fady, A.M. Komaranchath, F.B. Al Bakshy, M.G. Gibreel (Al Ain, AE; Cairo, EG)

Stress Echocardiography

Acute ST segment elevation MI in a patient following negative dobuatmine stress echocardiography: Possible mechanisms and lessons to learn. P245
T.S. Lwin, M. Alama, M. Farooq, N. Shaukat (Kettering, GB)

Exercise E/e refines diagnosis of diastolic impairment in patients with chronic kidney disease. P246
G. Gan, K. Kadappu, A. Bhat, F. Fernandez, H. Chen, S. Eshoo, L. Thomas (Sydney, AU)

3D Echocardiography

Added value of 3D echo in diagnosing and monitoring transcatheter valve in mac procedure in a patient with severe mitral stenosis. P247

A. Siciliano, F.N. Albuquerque, D.C. Albuquerque, F.S. Brito Junior, A.S. Felix, M.A. Iso, R.R. Garcia, J. Mansur Filho, M.L. Alcantara (Rio de Janeiro and São Paulo, BR)

Changes of atrial septum defect caused by posture during threedimensional transesophageal echocardiography (a case of Platypneaorthodeoxia syndrome). P248

Y. Takeuchi, S. Suzuki, H. Tsuneyoshi, H. Sakamoto, T. Shimada (Shizuoka, JP)

Iatrogenic aortic cusp laceration causing severe acute traumatic aortic regurgitation secondary to complex percutaneous coronary intervention using rotablator; 3DTEE-anatomic correlates. P249

V. Vadgaonkar, H. Tarief, S. Shivappa, L. Sulaibikh, S. Saif, A. Alnuwakhtha (Bahrain, BH)

Echocardiography, Other

Right ventricular free wall dissection clearly detected and recorded by echocardiography: a fatal complication after inferior myocardial infarction. P251

Y. Kawada, A. Yamada, N. Hoshino, M. Hoshino, S. Yamabe, K. Takada, E. Sakaguchi, Y. Ozaki (Toyoake, JP)

Incidental finding of a chronic left ventricular pseudoaneurysm years after surgical aortic valve replacement. P252

G. Klappacher, D. Beitzke (Vienna, AT)

Patient after correction of Taussig-Bing anomaly with severe neo-aortic regurgitation and after sudden cardiac arrest. P253

A.M. BieleckaDabrowa, M. Rybak, F. Pawliczak, J. Lewek, M. Banach, M. Maciejewski (Lodz, PL)

Congenitally corrected transposition of the great arteries with an ebstenoid tricuspid valve, aortic atresia, hypoplastic aortic arch and a dysplastic pulmonary valve. P254

L.A. Rittey, H. Parry, F. Willcoxson (Leeds, GB)

A fall from the tractor: a case report. P255

S. Habjan, D. Cantisani, I.S. Scarfo, V. Avitabile, F. Romeo, M.C. Guarneri, G. La Canna (RozzanoMilan, IT)

Imaging: Heart Failure

Takotsubo syndrome early after treatment due to non cardiotoxic chemotherapy agents. P256

B. Ozbay, E. Gurses, H. Kemal, E. Simsek, H. Kultursay (Izmir, TR; Nicosia, CY)

Multiple clinical manifestations of catecholamine secreting paraganglioma. P257

S. Garibaldi, S. Suma, S. Coli, S. Buratti, N. Gaibazzi (Parma, IT)

Imaging: Coronary Artery Disease

Giant coronary arteriovenous fistula with significant lefttoright shunt in symptomatic patient - a multimodal diagnostic approach and successful surgical treatment P258

M. Novak, P. Nemec, M. Sebo, L. Veteskova, M. Rezek (Brno, CZ)

Incidental giant Coronary artery aneurysm in the right coronary artery. P259

E. Cambronero Cortinas, P. MoratallaHaro, M. Arzanauskaite, E. Nyktari, R. Mohiaddin (London and Liverpool, GB; Albacete, ES)

Left ventricular pseudoaneurysm manifesting as syncope. P260

J.A. Da Conceicao Pedro Pais, B. Picarra, K. Congo, M. Carrington, A.R. Santos, R. Guerreiro, D. Bras, A.R. Rocha, J. Aguiar (Evora, PT)

Imaging: Acute Coronary Syndromes

- An unexpected diagnosis behind atypical chest pain. P261
A. Carvelli, M. Pascual Izco, A. Gonzalez, J. Ramos Jimenez, J.M. Vieitez Flores, J.M. Monteagudo, A. Garcia, J.D. Sanchez, J.J. Jimenez Nacher, J.L. Zamorano, C. Fernandez Golfín (Messina, IT; Madrid, ES)
- Left ventricular pseudoaneurism due to a nonreperfused myocardial infarction: multimodality cardiac imaging approach. P262
J.A. Fuentes Mendoza, O.A. Mondaca Garcia, N.G. Espinola Zavaleta (Mexico City, MX)
- Paradoxical embolus causing myocardial infarction in a young adult with congenital heart disease. P263
S. Veerappan, S. Moharem-Elgamal, J. Luszczak, N. Manghat, S. Lyen, R. Bedair (Bristol, GB)

Imaging: Myocardial Disease

- Alcohol septal ablation in hypertrophic obstructive cardiomyopathy with mitral insufficiency of mixed mechanism. P264
D. Penes, M. Anton, C.O. Maresiu, S. Boeangiu, C. Margineanu, G. Andrei, L. Predescu, R. Stavaru, L.E. Antohi, O. Chioncel (Bucharest, RO)

Imaging: Congenital Heart Disease

- Dextrocardia with single ventricle and symptomatic erythrocytosis: a case report. P267
L.S. Shen, M.J. Li, Y. Chen (Beijing and Hangzhou, CN)
- Epicardial cyst in a three months old baby: a challenging decision. P268
A.M. De Roberto, A. Del Pasqua, M. Chinali, P. Francalanci, C. Esposito, M. Iacomino, P. Ciliberti, A. Secinaro, M. Galderisi, A. Carotti, G. Rinelli (Naples and Rome, IT)
- When sudden cardiac death is the first symptom. P269
J. Abdala Lizarraga, S. Sanchez Alvarez, P. Garcia Gonzalez, B. Trejo Velasco, V. Vidal Urrutia, J. Gradoli Palmero, J.M. Simon Machi, C. Fernandez Diaz, J. Vano Bodi, J.P. Cardenas Tealdo, R. Paya Serrano (Valencia, ES)
- Complex cyanotic heart disease in adult patient with down syndrome accompanied by mild pulmonary hypertension. P270
A. Siama, P. Fountoulakis, A. Tsoukas, A.J. Manolis (Athens, GR)
- Hypoplastic posterior mitral leaflet associated with Marfan syndrome. P271
E. Tafciu, F. Ancona, S. Stella, C. Capogrosso, G. Ingallina, A. Castiglioni, M. De Bonis, O. Alfieri, E. Agricola (Milan, IT)

Imaging: Aortic Disease

- Sinus of Valsalva pseudoaneurysms as a sequela to infective endocarditis in bicuspid aortic valve. Clinical Case. P272
E.N. Eric Norberto, A.M. Adriana, J.A. Jorge, S.O. Sergio (Mexico City, MX)
- The role of multimodality imaging in the evaluation of arteritis. P273
T.M. Matajira Chia, M. Castineira Busto, M. Cespon Fernandez, B. Gimena Reyes, F. Calvo Iglesias, A. Ir (Vigo, ES)

09:00 - 16:00

POSTER SESSION

POSTER AREA

Poster session 1

All posters are on display from 09:00 to 16:00.

From 12:45 to 13:45 - Meet the presenters by their poster.

Echocardiography: Technology

Continuous echocardiographic monitoring in intensive cardiac care unit with external probe stabilizer - preliminary experience.

P274

K. WdowiakOkrojek, P. Lipiec, J.D. Kasprzak (Lodz, PL)

Feasibility and accuracy of the automated quantification of two- and three-dimensional left ventricular ejection fraction and its role in the arrhythmic risk stratification of organic heart disease.

P275

M. Previtero, N. Ruozì, G. Sammarco, D. Azzolina, R. M. Tenaglia, C. Palermo, P. Aruta, S. Iliceto, D. Muraru, L. P. Badano (Padua and Milan, IT)

A novel 3D vector velocity imaging and a 3D reconstruction offline in a personal computer based on 3D echocardiography images.

P276

M. Karvandi, S. Ranjbar, L.G. Badano (Tehran, IR; Padua, IT)

Echocardiography: Systolic and Diastolic Function

RV remodeling by echo parameters in endurance and strength sport training.

P277

M. Moshkani Farahani, M. Shirdel (Tehran, IR)

Does recanalization of chronic total occlusion reflect on myocardial function?

P278

O. Petrovic, S. Juricic, D. TrifunovicZamaklar, I. Paunovic, I. Rakocevic, N. Gavrilovic, I. Jovanovic, N. Boskovic, S. Aleksandric, B. Ivanovic, A. DjordjevicDikic, B. Beleslin, V. Vukcevic, G. Stankovic, S. Stojkovic (Belgrade, RS)

Subclinical left ventricular dysfunction in patients with insulin resistance and hypovitaminosis D.

P279

A. Stevanovic, M. Dekleva, N. Ilic Pasquali (Belgrade, RS)

Evaluation of right atrium in patients with gestational hypertension.

P280

S. Stojacic, A. Ilic, S. Tadic, D. Grkovic, A. Stojacic-Milosavljevic (Sremska Kamenica and Novi Sad, RS)

Correlation between procollagen propeptides, echocardiography indices in patients with ST segment elevation myocardial infarction (STEMI) and preserved myocardial contractility.

P281

A. Osokina, V.N. Karetnikova, O.M. Polikutina, Y.S. Slepynina, O.V. Gruzdeva, T.P. Solodilova, S.N. Kosareva, D.A. Chukalenko, O.L. Barbarash (Kemerovo, RU)

Left ventricular diastolic dysfunction in asymptomatic type 2 diabetes mellitus with preserved systolic function.

P282

M. Mouadili, M. Sebani, C. Mbauchy, M. El Hattatoui, S. El Karimi (Marrakech, MA)

Postreperfusion indicators of left ventricular diastolic function in patients with ST elevation myocardial infarction.

P283

M. S. Mirmaksudov, D. K.H. Rakhmonov, S. R. Kenjaev, A. K. Koyirov, R. A. Rakhimova, Z. F. Umarova (Tashkent, UZ)

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N. Jalaludeen, S. Bull, K. Taylor, J. Wiles, D. Coleman, O. Mukhtar, J. Cheriyan, I. Wilkinson, R. Sharma, J. O'driscoll (Cambridge, Canterbury and London, GB)

Prediction of an adverse cardiovascular response to physical exercise from resting echocardiography imaging in young adults with suboptimal blood pressure. P374

M. Alsharqi, O. J. Huckstep, W. Williamson, A. Mohamed, C. Tan, W. Lapidaire, F. Telles, L. Arnold, C. Monteiro, H. Dawes, C. Foster, A. J. Lewandowski, P. Leeson (Oxford and Bristol, GB)

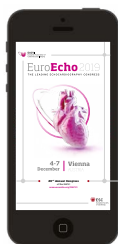
To evaluate the effectiveness of primary prevention of anthracycline cardiotoxicity using modern STE technologies. P375

V.V. Nesvetov, Y.U.A. Vasyuk, E.L. Shkolnik, E.N. Yushuk (Moscow, RU; Bridgeport, US)

Epicardial to pericardial adipose tissue ratio: predicting ischemic etiology of left ventricular systolic dysfunction. P376

A. Garcia Campos, V. Alonso Vazquez, S. Colunga Blanco, E. Velasco Alonso, B. Vega Hernandez, D. Leon Duran, T. Gonzalez Sanchez, E. Segovia MartinezSalinas, I. Lozano MartinezLuengas (Gijon and Langreo, ES)

Thursday 5 December



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Early registration savings by: 31 May

Late registration savings by: 31 July

#ESCcongress

08:30 - 10:00 MAIN SESSION MOZART

Imaging in intensive care

Chairperson(s): E. Holte (Trondheim, NO); J. van der Maaten (Onnen, NL)

- 08:30 › Hemodynamic shockPointofcare ultrasonography as a tool to identify the cause. 377
C. Hassager (Copenhagen, DK)
- 08:52 › Hemodynamic shock-Echocardiography as a tool to guide fluid therapy, the use of vasopressor, vasodilatation and inotropic agents. 378
A. N. Neskovic (Belgrade, RS)
- 09:15 › Point-of-care ultrasonography in the ICU-not only assessment of the heart. 379
C. Moore (To Be Confirmed, US)
- 09:37 › Right ventricle: how to diagnose right ventricle failure at ICU. 380
To be announced

08:30 - 10:00 SYMPOSIUM STRAUSS

Valvular heart disease and heart failure: burning issues

Chairperson(s): M. Miglioranza (Porto Alegre, BR); M. Cameli (Siena, IT)

- 08:30 › VHD and heart failure: disease of the valve or the ventricle? 381
T. Podlesnikar (Maribor, SI)
- 08:52 › VHD and heart failure: lessons learned from atria. 382
G.E. Mandoli (Siena, IT)
- 09:15 › Percutaneous mitral valve therapies in HF: where do we stand? 383
O. Ozden Tok (Istanbul, TR)
- 09:37 › Tricuspid regurgitation and right heart failure: how to improve our diagnostics? 384
S. Mihaila (Bucuresti, RO)

08:30 - 10:00 TEACHING COURSE HAYDN

Echocardiography essentials

Chairperson(s): I. Stankovic (Belgrade, RS); R. Steeds (Birmingham, GB)

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

- 08:30 › Physics, instrumentation and machine settings. 385
N. MarozVadalazhskaya (Minsk, BY)
- 08:52 › The complete standard echo study. 386
M. Garbi (Cambridge, GB)
- 09:15 › Common mistakes and pitfalls with 2D echocardiography. 387
J. Separovic Hanzevacki (Zagreb, HR)
- 09:37 › Artifacts in conventional echocardiography. 388
P. Bertrand (Genk, BE)

08:30 - 10:00 CLINICAL IMAGING SHOENBERG

More awareness about diabetes and heart failure

Chairperson(s): A. Varga (Szeged, HU); E. Plonska-Gosciniak (Szczecin, PL)

By attending this session the audience will broaden their understanding of MVP in the light of most recent researches and gain new insights to optimize patient management.

- 08:30 › Myocardial remodeling and heart failure in DM. 389
L. Ernande (Paris, FR)
- 08:52 › Stress echo for screening and prognosis. 390
F. Rigo (Mestre Venice, IT)
- 09:15 › Impact of echo assessment on outcome? 391
M. Galderisi (Naples, IT)
- 09:37 › Echo to guide therapy. 392
T. Marwick (Melbourne, AU)

08:30 - 10:00 SYMPOSIUM STEINER

Speckle tracking imaging: tool or toy?



Joint session with the Austrian Working Group of Echocardiography

Chairperson(s): J.U. Voigt (Leuven, BE); J. Bergler-Klein (Vienna, AT)

- 08:30 › Layer specific strain adds new information to my clinical practice. 393
T. BieringSorensen (Copenhagen, DK)
- 08:52 › Septal flash and apical rocking: 2 phenotypes for the same abnormalities. 394
M. Schneider (Vienna, AT)
- 09:15 › Myocardial work by pressure strain loops tells me about responsive. 395
M.O. Smiseth (Oslo, NO)
- 09:37 › Left atrial strain, what's new? 396
M. Genger (Graz, AT)

08:30 - 10:00 SYMPOSIUM SCHULZ

Multimodality imaging in pericardial disease a case based review of pericardial damage

Chairperson(s): R. Winter (Stockholm, SE); M. Imazio (Torino, IT)

- 08:30 › Echocardiography in pericardial disease? Still the best of choice. 397
D. Prior (Fitzroy, AU)
- 08:52 › The role of cardiac MR/CT in evaluation of pericardial disease. 398
C. Jellis (Cleveland Heights, US)
- 09:15 › The old and the new Hemodynamics and new techniques in evaluating pericardial disease. 399
A. Klein (Cleveland, US)
- 09:37 › Restrictive or constrictive physiology: which is the best imaging? 400
D. Pellerin (London, GB)

08:30 - 10:00 SYMPOSIUM MAHLER

Longterm follow up of Congenital Heart Disease 1

Chairperson(s): A.P. Salmon (Eastleigh, GB); O. Milanesi (Padova, IT)

- 08:30 › Imaging indicators for closure of a VSD in adulthood. 401
L. Smith (To Be Confirmed, GB)
- 08:52 › ASD device closure assessment before, during and after. 402
M. Chinali (Rome, IT)
- 09:15 › Imaging after coarctation repair: Indicators for reintervention. 403
I. Ivanac (Zagreb, HR)
- 09:37 › Imaging after AVSD repair when to reintervene. 404
D. Forsha (Kansas, US)

08:30 - 10:00 WORKSHOP SCHUBERT 3

Focus on aortic valve disease (native and prosthetic)

Workshop on Transoesophageal Echocardiography (TOE)

To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment.

- 08:30 › Presenters: 405
H. Skinner (Nottingham, GB)

08:30 - 10:00 WORKSHOP BERG

Focus on aortic valve disease (native and prosthetic)

Workshop on Transoesophageal Echocardiography (TOE)

To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment.

- 08:30 › Presenters: 406
C. Fiore (Lecce, IT)

08:30 - 10:00 RAPID FIRE ABSTRACTS AGORA

Imaging: heart failure

Chairperson(s): A. Stefanidis (Athens, GR); B. Michalski (Ksawerow, PL)

Fast paced and interactive session with key messages of 10 abstracts.

- 08:30 › Panel of experts: 407
T. Binder (Vienna, AT); V. Parato (San Benedetto Del Tronto, IT)
- 08:38 › The relationship between right ventricular arterial coupling and cardiac metabolism in pulmonary arterial hypertension - multimodal study. 408
R. Kazimierczyk, P. Szumowski, P. Blaszcak, E. Kazimierczyk, K. PtaszynskaKopczynska, M. Hladunski, M. Knapp, R. Grzywna, J. Mysliwiec, B. Sobkowicz, K. Kaminski (Bialystok and Lublin, PL)
- 08:46 › Left atrial pump function assessed by speckle tracking echocardiography adds important value for the diagnosis of heart failure with preserved ejection fraction. 409
R.C. Rimbasa, D.J. Mihalea, L.M. Luchian, S. Mihaila Baldea, L.S. Magda, S.I. Visoiu, A.A. Andronic, A. Velcea, L. Lungeanu Juravle, A. Balinisteanu, A. Nicula, D. Vinereanu (Bucharest, RO)
- 08:54 › Early cardiac reverse remodeling in a large cohort of patients with HFrEF treated with Sacubitril/Valsartan. 410
V.A. Sassi, M. Mapelli, E. Salvioni, I. Mattavelli, V. Mantegazza, V. Volpato, C. Vignati, F. De Martino, S. Paolillo, L. Fusini, M. Muratori, M. Pepi, P.G. Agostoni (Milan and Naples, IT)

Morning Sessions

- | | | | |
|---------|---|-----|-----------------------|
| 09:02 › | Recompensation induces distinct changes in myocardial work in patients with acutely decompensated heart failure and reduced vs preserved left ventricular ejection fraction.
<i>C. Morbach, F. Sahiti, C. Henneges, M. Breunig, M. Kaspar, G. Ertl, S. Frantz, C.E. Angermann, S. Stoerk (Wuerzburg and Wurzburg, DE)</i> | 411 | WEDNESDAY
SESSIONS |
| 09:10 › | Sacubitril/valsartan promotes cardiac reverse remodeling and preserves renal function in a real-world heart failure and reduced ejection fraction (HFrEF) population.
<i>M.V. Polito, A. Rispoli, V. Vitulano, F. D'auria, A. Silverio, E. De Angelis, F. Loria, R. Citro, G. Galasso, G. Iaccarino, M. Ciccarelli (Salerno, IT)</i> | 412 | |
| 09:19 › | Effects of tafamidis in patients with transthyretin amyloid cardiomyopathy.
<i>R. Rettl, F. Duca, C. Binder, C. Capelle, R. Badr Eslam, S. Aschauer, J. Mascherbauer, C. Hengstenberg, D. Bonderman (Vienna, AT)</i> | 413 | |
| 09:27 › | Ventricular-arterial interaction predicts response to cardiac resynchronization therapy: a link with improvement of endothelial function and arterial elastic properties.
<i>N. Karamichalakis, I. Ikonomidis, J. Parissis, P. Simitsis, S. Xydonas, K. Letsas, D. Manolatos, K. Vlachos, S. Georgopoulos, M. Efremidis, A. Sideris, G. Filippatos (Athens, GR)</i> | 414 | WEDNESDAY
POSTERS |
| 09:35 › | Comparison between two methods for assessing ventricular-arterial coupling: the Chen single-beat method and carotid artery wave intensity.
<i>F. Antonini-Canterin, A. Pepe, M. Strazzanti, G. Luzzza, M. Penzo, E. Nicolosi, L. Pagliani, D. Rivaben (Motta di Livenza and Verona, IT)</i> | 415 | THURSDAY
SESSIONS |
| 09:43 › | LV only fusion pacing CRT without RV lead induces size and shape LA reverse remodelling.
<i>C. Vacarescu, L. Petrescu, C.T. Luca, C. Mornos, A. Gurgu, E.V. Goanta, S. Crisan, M.A. Lazar, R.A. Cozlac, D. Cozma (Timisoara, RO)</i> | 416 | THURSDAY
POSTERS |
| 09:51 › | Can myocardial stiffness measurements distinguish the underlying pathology in hearts with thick walls? A shear wave imaging study using ultrahigh frame rate echocardiography.
<i>M. Cvijic, S. Bezy, A. Petrescu, P. Santos, M. Orlowska, B. Chakraborty, J. Duchenne, J. Pedrosa, T. Vanassche, M. Delforge, J. Van Cleemput, J. Dhooge, J.U. Voigt (Leuven, BE)</i> | 417 | FRIDAY
SESSIONS |

10:00 - 11:00

ABSTRACT - SESSION

AGORA

Young Investigator Award session - Basic Science



Chairperson(s): B. Cosyns (Brussels, BE); B.A. Popescu (Bucharest, RO)

Judge(s): M.J. Monaghan (London, GB); A. Hagendorff (Leipzig, DE); V. Delgado (Leiden, NL); J. BerglerKlein (Vienna, AT)

Four finalists in competition for the "Young Investigator Award session - Basic Science, "Prize".

Sessions will be chaired by senior faculty members and presentations evaluated by a panel of renowned judges.

- | | | | |
|---------|--|-----|----------------------|
| 10:00 › | Ultrasound molecular imaging of the role of von willebrand factor-mediated platelet adhesion in atherogenesis.
<i>K. Ozawa, M. Muller, O. Varlamov, W. Packwood, A. Xie, J.A. Lopez, J.R. Lindner (Portland and Seattle, US)</i> | 418 | FRIDAY
POSTERS |
| 10:15 › | Revisiting cardiac Doppler index with single heart beat 4D ultrafast echocardiography.
<i>C. Papadacci, V. Finel, O. Villemain, G. Goudot, J. Provost, E. Messas, M. Tanter, M. Pernot (Paris, FR)</i> | 419 | |
| 10:30 › | Vortex formation in the preejection phase in the left ventricle.
<i>A. Daae, M. Wigen, L. Lovstakken, A. Stoylen (Trondheim, NO)</i> | 420 | SATURDAY
SESSIONS |
| 10:45 › | Exploring hypertensive patient profiles based on full myocardial deformation and Doppler traces - insights from a machine-learning approach.
<i>F. Loncaric, S. SanchezMartinez, L. Nuno, M. Mimbreno, L. Sanchis, C. Yague Mendez, S. Montserrat, G. Piella Fenoy, M. Sitges, B. Bijnens (Barcelona, ES)</i> | 421 | SATURDAY
POSTERS |

10:00 - 11:00

MODERATED POSTERS

MODERATED ePOSTERS 1

What is new in mitral valve intervention**Chairperson(s): C. Zito (Messina, IT); M. Swaans (Hedel, NL)***Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 08:30 - 12:00**Presentation and discussion moderated by the chairpersons take place between 10:00 - 11:00*

Single-center five-year outcomes after interventional edge-to-edge repair of the mitral valve. 422

C. Ozturk, M. Frederich, N. Werner, G. Nickenig, C. Hammerstingl, R. Schueler (Bonn and Cologne, DE)

Effects of mitral valve repair on left ventricular remodeling and ventricular arrhythmia in mitral valve prolapse patients: five-year follow-up. 423

E. Malev, M. Omelchenko, L. Mitrofanova, M. Gordeev, B. Bondarenko, S. Reeva, E. Timofeev (Saint-Petersburg and Saint-Petersburg, RU)

Left ventricular function after correction of a proportionate mitral regurgitation: impact of the clipping approach. 424

A. Hubert, E. Galli, G. Leurent, H. Corbineau, C. Leclercq, E. Donal (Rennes, FR)

Alterations in left atrial structure and function in chronic heart failure patients with functional mitral regurgitation after MitraClip. 425

C. Ozturk, T. Fasell, J.M. Sinning, N. Werner, G. Nickenig, C. Hammerstingl, R. Schueler (Bonn, Cologne and Essen, DE)

Involvement of anterior leaflet and persistent MR at discharge are the 2 predictive risk factors for reintervention after mitral valve repair for significant and symptomatic MR. 426

C. Fauvel, R. Breil, F. Doguet, O. Raitiere, F. Bauer (Rouen, FR)

Prognostic implications of the relationship between effective regurgitant orifice area and left ventricle end diastolic volume in patients with functional mitral regurgitation treated with MitraClip. 428

E. Melillo, C. Godino, F. Ancona, A. Sisinni, S. Stella, C. Capogrosso, P.G. Camici, P. Denti, N. Buzzatti, A. Colombo, M. Montorfano, M. De Bonis, A. Castiglioni, O. Alfieri, E. Agricola (Milan, IT)

Right ventricular longitudinal and radial fiber contractility in patients undergoing mitral valve surgery: a PREPARE-MVR substudy. 429

B.K. Lakatos, M. Tokodi, Z. Toser, S. Szigeti, K.B. Koritsanszky, K. Racz, A.V. Soltesz, T. Varga, E. Kispal, B. Merkely, E. Nemeth, A. Kovacs (Budapest, HU; Lebanon, US)

10:00 - 11:00

MODERATED POSTERS

MODERATED ePOSTERS 2

Imaging: miscellaneous**Chairperson(s): F. D'Ascenzi (Siena, IT); L. Ernande (Paris, FR)***Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 08:30 - 12:00.**Presentation and discussion moderated by the chairpersons take place between 10:00 - 11:00.*

Relation of blood pressure to coronary artery calcium and mortality. 430

I.J. Cho, J.H. Lee, S.Y. Choi, E.J. Chun, S.H. Park, H.W. Han, J.D. Sung, H.O. Jung, H.J. Chang (Seoul and Goyang, KR)

Impact of endurance training versus non-endurance training on cardiac morphology and physical fitness in highly trained young athletes. 431

A.W. Bjerring, H.E.W. Landgraff, S. Leirstein, M. Lihagen, M. Skei, K. Murbraech, H. Brun, T.M. Stokke, K.H. Haugaa, J. Hallen, T. Edvardsen, S.I. Sarvari (Oslo, NO)

Traditional markers of myocardial dysfunction fail to detect marked reductions in physical capacity among chemotherapy patients. 432

E. Howden, S. Foulkes, L. Wright, K. Janssens, H. Dillon, B. Costello, A. La Gerche (Melbourne, AU)

Morning Sessions

Independent impact of metabolic syndrome on left ventricular longitudinal dysfunction in type 2 diabetes mellitus. <i>O. Casciano, F. Luciano, S. Cocozza, R. Sorrentino, M. Lembo, V. Sellitto, C. Santoro, R. Esposito, A. Rivellese, M. Galderisi (Naples, IT)</i>	433
Feasibility and reproducibility of parameters of cardiac function and dimension by transthoracic echocardiography in obesity patients. <i>S. Snelder, J.O. Younge, J.E. Van Velzen, J.A. Akkerhuis, F. Zijlstra, B.M. Van Dalen (Rotterdam, NL)</i>	434
Left ventricular reverse remodeling and angiotensin ii receptor blocker neprilysin inhibitor - a real-world data. <i>A. Martinho, J. Almeida, A. Freitas, C. Ferreira, F. Franco, S. Costa, R. Baptista, A. Pinho, M. Robalo, L. Goncalves (Coimbra and Braga, PT)</i>	435
Prognostic value of calcium scoring in changes of echogenicity in carotid plaques. <i>G.P. Perea Gabriel, M. Corneli, G. Daquarti, A. Meretta, D. Rosa, O. Masoli (Buenos Aires, AR)</i>	436
A score based on echocardiographic parameters highly predicts atrial fibrillation. <i>J. Hagemus, J.T. Sieweke, S. Biber, S. Schallhorn, J. Neuser, D. Berliner, J. Bauersachs, U. Bavendiek (Hannover, DE)</i>	437

10:10 - 10:55 HOW-TO SESSION STRAUSS

How to perform a 3D TOE

Chairperson(s): **H. MahmoudElsayed (Birmingham, GB)**

How-to session provides 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.

10:10 › Presenter: <i>M. Sitges (Barcelona, ES)</i>	438
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10:10 - 10:55 TEACHING COURSE SCHUBERT 6

Prelude to echocardiography



Chairperson(s): **C. Hengstenberg (Wien, AT); J. Separovic Hanzevacki (Zagreb, HR)**

10:10 › Anatomy of the heart. <i>L. Herbots (Hasselt, BE)</i>	439
10:25 › Basic physiology of the heart. <i>L. Herbots (Hasselt, BE)</i>	440
10:40 › Echo instrumentations. <i>L. Herbots (Hasselt, BE)</i>	441

11:00 - 12:30 MAIN SESSION MOZART

Cardiac imaging in cardiac oncology



Joint session with the ESC Council of Cardio-Oncology

Chairperson(s): **R. Asteggiano (Turin, IT); T. Suter (Bern, CH)**

11:00 › Heart failure: subclinical diagnosis. <i>P. Lancellotti (Liege, BE)</i>	442
11:22 › Coronary artery disease. <i>C. Cadeddu Dessalvi (Monserrato, IT)</i>	443
11:45 › Atrial fibrillation. <i>M. Galderisi (Naples, IT)</i>	444
12:07 › Pulmonary thromboembolism. <i>T. Lopez Fernandez (Madrid, ES)</i>	445

11:00 - 12:30

SPECIAL SESSION

STRAUSS

Interactive Cardiac Imaging Quiz: the most challenging cases from everyday clinical practice**Chairperson(s): V. Delgado (Leiden, NL); L.E. Sade (Ankara, TR)**

This is a mobile app interactive session, Audience will be invited to interact during the presentations by answering questions when prompted by the speakers and can use "Ask" to send their questions directly to the chairpersons.

- 11:00 › Clinical cases where 3D Echocardiography saved the day. 446
J. Grapsa (London, GB)
- 11:30 › Great enigmas of transthoracic and transesophageal echocardiography. 447
R. Fontes Carvalho (Porto, PT)
- 12:00 › The most challenging diagnostic riddles from multimodality imaging. 448
J. Rodriguez Palomares (Barcelona, ES)

11:00 - 12:30

TEACHING COURSE

HAYDN

State-of-the-art Chamber Quantification**Chairperson(s): J.D. Kasprzak (Lodz, PL); F. AntoniniCanterin (Pordenone, IT)**

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

- 11:00 › Left ventricular size and systolic function. 449
A. Pearlman (Seattle, US)
- 11:22 › Left ventricular diastolic function. 450
B.A. Popescu (Bucharest, RO)
- 11:45 › Right ventricular size and function. 451
A. D'Andrea (Naples, IT)
- 12:07 › Atrial size and function. 452
L. Thomas (Sydney, AU)

11:00 - 12:30

CLINICAL IMAGING

SHOENBERG

Pregnancy and the heart**Chairperson(s): A.A. Pasquet (Brussels, BE); I.P. Monte (Catania, IT)**

By attending this session the audience will understand most up to date approaches in challenging situations during pregnancy in the light of latest researches and recommendations of EACVI and guidelines of ESC.

- 11:00 › Peripartum cardiomyopathy. 453
E. Eroglu Buyukoner (Ankara, TR)
- 11:22 › Pregnancy in cardiomyopathies. 454
M.E. Estensen (Oslo, NO)
- 11:45 › Pregnancy in GUCH. 455
W. Budts (Leuven, BE)
- 12:07 › Pregnancy with prosthetic valves. 456
R.O. Jurcut (Bucharest, RO)

11:00 - 12:30 SPECIAL SESSION STEINER

Mitral valve prolapse and sudden cardiac death**Joint session with the American Society of Echocardiography (ASE)****Chairperson(s): J. Magne (Limoges, FR); L.L. Rodriguez (Cleveland, US)**

- 11:00 › Mitral valve prolapse, epidemiology and pathophysiology. 457
B. Baucé (Padova, IT)
- 11:22 › Degenerative mitral regurgitation. Grading and prognosis. 458
J. Hung (Boston, US)
- 11:45 › Mitral valve prolapse and sudden cardiac death, what is the role of mitral. 459
K. Haugaa (Oslo, NO)
- 12:07 › Mitral valve prolapse and ventricular arrhythmias. Diagnostic workup, risk stratification and treatment. 460
R. Thamman (Pittsburgh, US)

11:00 - 12:30 SYMPOSIUM SCHULZ

Cardio-metabolism party**Joint session with the Cardiac Society of Australia and New Zealand (CSANZ)****Chairperson(s): To be announced; R. Sicari (Pisa, IT)**

- 11:00 › Cardiac structure and function in cardiometabolic syndrome. 461
G.A. Derumeaux (Creteil, FR)
- 11:22 › How can imaging guide diagnosis in cardiometabolic syndrome? 462
L. Thomas (Sydney, AU)
- 11:45 › How can imaging guide treatment in cardiometabolic syndrome? 463
L. Ernande (Paris, FR)
- 12:07 › How and when to follow-up patients in cardiometabolic syndrome? 464
To be announced

11:00 - 12:30 SYMPOSIUM MAHLER

Longterm follow up of Congenital Heart Disease 2**Chairperson(s): W. Li (London, GB); A. Van Den Bosch (Rotterdam, NL)**

- 11:00 › Ebstein's anomaly: role of imaging in selection of cases for surgical intervention. 465
E. Valsangiacomo Buechel (Zurich, CH)
- 11:22 › Assessment of congenitally malformed mitral valves. 466
N.S. Khoo (Edmonton, CA)
- 11:45 › Bicuspid aortic valves: imaging indicators for intervention. 467
H.B. van der Zwaan (Rotterdam, NL)
- 12:07 › Imaging indicators for intervention in repaired tetralogy of Fallot. 468
M.K. Friedberg (Toronto, CA)

11:00 - 12:30 WORKSHOP SCHUBERT 3

Focus on atrial septal defect closure**Workshop on Transoesophageal Echocardiography (TOE)***To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment.*

- 11:00 › Presenter: 469
J. Simpson (London, GB)

11:00 - 12:30 WORKSHOP BERG

Focus on Mitraclip

Workshop on Transoesophageal Echocardiography (TOE)

To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment.

11:00 > Presenter: 470
N. Ajmone Marsan (Leiden, NL)

11:00 - 12:30 CLINICAL CASES AGORA

Echocardiography: masses and sources of emboli

Chairperson(s): P. Caso (Naples, IT); E. PlonskaGosciniak (Szczecin, PL)

Young clinicians will present their cases and experts will be asked to moderate the sessions, facilitate interaction with the audience, prompt discussions, challenge the presenters and the audience.

The main objective of the session is to learn from challenging clinical case scenarios.

11:00 > Panel of experts: 471
S. Stoebe (Leipzig, DE); S. Tsonev (Sofia, BG)

11:08 > Epidemiology and temporal trends of cardiac device related infective endocarditis. 472
M. Denes, A. Bence, T. Ferenci, S. Borbas, Z. Som, G. Prinz, C. Foldesi, A. Temesvari, M. Vertesaljai, P. Andreka (Bonyhad and Budapest, HU)

11:16 > Chloroma: an unusual case with extensive cardiac involvement detected by echocardiography. 473
C. Oliveira Da Silva, S. Eliasson, C. Sequeira, A. Bernardes, E. Gunyeli, A. Manouras (Stockholm, SE)

11:24 > Isolated pulmonary endocarditis. 474
A. Fernandez Valledor, P. Cepas Guillen, M. Izquierdo, P. Vidal, D. Pereda, S. Prat, B. Vidal, Infective Endocarditis Team (Barcelona, ES)

11:32 > A rare cause of right ventricular mass. 475
A. Briosa, A.R. Almeida, A.C. Gomes, A.R. Pereira, A. Marques, S. Alegria, D. Sebaiti, J. Santos, M. Carrington, R. Miranda, I. Joao, S. Sousa, H. Pereira (Lisbon and Evora, PT)

11:40 > An unusual location and size of a papillary fibroelastoma. 476
A.A. Valentim Goncalves, M.J. Sousa, P. Matos, E. Pinto, N. Banazol, L. Branco, R. Cruz Ferreira (Lisbon and Beja, PT)

11:49 > Giant interatrial septum, a very uncommon manifestation of mycosis fungoides. 477
P. Lerena, C. Ruisanchez Villar, J.M. Cuesta Cosgalla, A. Sarraide Aguayo, M. Cobo Belaustegui, J. Zarauza Navarro, J. Ruano Calvo (Santander, ES)

11:57 > A rare case of right ventricular ischaemia and ventricular tachycardia in neonate caused by intermittent occlusion of origin of the right coronary artery by an echogenic mass. 478
S. Padmanabhan (Truro, GB)

12:05 > When 2 rights make a wrong. 479
J. Tong, P. Joseph Francis, E. Lee (Singapore, SG)

12:13 > Successful anticoagulation treatment of an ascending aortic thrombus associated with myocardial infarction and systemic embolisms. 480
P. Ng, A. Rajwani, C. Schultz (Perth, AU)

12:21 > Mass compromising left atrium. 481
D. Rodrigo Carbonero, U. Estandia, P.M. Perez, C. Perez, R. Voces, A. Cortes, E. Panera (Baracaldo, ES)

12:45 - 13:45

SATELLITE SYMPOSIUM

SHOENBERG

How to use advanced ultrasound technologies in daily practice**Sponsored by Canon Medical Systems Europe BV****Chairperson(s): F. Knebel (Berlin, DE); T. Binder (Vienna, AT)****Learning objectives:** Learn how to use advanced ultrasound technologies in daily practice, including latest technologies in 2D, 3D, Speckle Tracking.

- | | | |
|---------|--|-----|
| 12:45 › | How to apply advanced imaging technologies for routine examinations.
M. Zuber (Othmarsingen, CH) | 482 |
| 13:05 › | To compete or not to compete? Imaging in sports cardiology decision making.
G. Pieles (Bristol, GB) | 483 |
| 13:25 › | Clinical cases using state of the art imaging techniques.
T. Binder (Vienna, AT) | 484 |

12:45 - 13:45

SATELLITE SYMPOSIUM

STEINER

Implementation of contrast echocardiography in routine clinical practice and impact on patient management**Sponsored by Bracco****Chairperson(s): R. Senior (London, GB)****Learning objectives:**

- To demonstrate the clinical benefit of accurate EF assessment in cardiotoxicity assessment of patients undergoing chemotherapy
 - To discuss different algorithms in the evaluation of patients with suspected coronary artery disease and to demonstrate the value of UEA enhanced echocardiography in reducing additional diagnostic testing
- | | | |
|---------|---|-----|
| 12:45 › | Introduction: Implementation of contrast echocardiography in routine clinical practice and impact on patient management.
A. Hagendorff (Leipzig, DE) | 485 |
| 12:50 › | The role of echocardiography with ultrasound enhancing agents (UEA) in patients undergoing chemotherapy.
H.H. Becher (Edmonton, CA) | 486 |
| 13:20 › | Is use of ultrasound enhancing agents during echocardiography cost effective?
A. Helfen (Werne, DE) | 487 |

12:45 - 13:45

SATELLITE SYMPOSIUM

HAYDN

Innovative echo toolbox for the heart failure - exploring underlying pathomechanisms. Panel discussion illustrated by clinical cases**Sponsored by Philips****Chairperson(s): S. Von Bardeleben (Mainz, DE); M. J. Monaghan (London, GB)****Learning objectives:**

- Recent technological advances in echocardiography and other cardiac imaging modalities opened new perspectives in understanding the pathophysiology of the heart failure, making the correct diagnosis and management of patients.
- New echo quantification packages allow accurate and reproducible measurements of the left and right cardiac chamber and myocardial function. This may help in more precise diagnosis and prognostic stratification of the heart failure with preserved left ventricular ejection fraction and detection of subclinical myocardial dysfunction during cancer therapy. They also help to plan and guide the treatment of heart failure originating from valvular heart disease.
- Moderated panel discussion at Philips Satellite Symposium will address these exciting topics. Panelists will present clinical cases that illustrate how state-of-the-art echocardiography, alone or combined with other cardiac imaging modalities, results in cost-effective screening, diagnosis and treatment of heart failure of different origin.

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|---------|--|-----|
| 12:45 › | Opening remarks.
M.J. Monaghan (London, GB) | 488 |
|---------|--|-----|

12:48 ›	Left sided heart failure - going beyond ejection fraction. T. Lopez Fernandez (Madrid, ES)	489
13:13 ›	Right sided heart failure - going beyond TAPSE. L.P. Badano (Padova, IT)	490
13:29 ›	Heart failure originating from valvular heart disease - what remains to be solved? N.A. Narang (Chicago, US)	1906
13:44 ›	Closing remarks. S. Von Bardeleben (Mainz, DE)	491

12:45 - 13:45 SATELLITE SYMPOSIUM MAHLER

Addressing tricuspid regurgitation through annular reduction

Sponsored by Edwards Lifesciences

Chairperson(s): P. Lancellotti (Liege, BE); J.L. Zamorano Gomez (Madrid, ES)

Learning objectives:

- Raise awareness about tricuspid regurgitation (TR).
- Educate medical community on several aspects of TR: anatomy, imaging, discrepancies on the guidelines, need for new scale for measuring TR.
- Discuss on procedural aspects and outcomes for patients.

12:45 ›	Session objectives. P. Lancellotti (Liege, BE)	1904
12:48 ›	Understanding the tricuspid valve - An imaging perspective. R. Hahn (New York, US)	492
12:58 ›	Discussion.	
13:01 ›	Quantification of TR and grading - What we do and what we should do? L.P. Badano (Padova, IT)	493
13:11 ›	Discussion.	
13:14 ›	Identifying patients and imaging tips and tricks. V. Delgado (Leiden, NL)	494
13:24 ›	Discussion.	
13:27 ›	The impact of transcatheter annular reduction on my patients. M. Arnold (Essen, DE)	495
13:37 ›	Discussion.	
13:42 ›	Session evaluation and key learnings. J.L. Zamorano Gomez (Madrid, ES)	1905

12:45 - 13:45 MODERATED POSTERS MODERATED ePOSTERS 1

HIT the case

Chairperson(s): C. Zito (Messina, IT); W. Kosmala (Wroclaw, PL)

Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 12:00 to 14:30. Presentation and discussion moderated by the chairpersons take place between 12:45 - 13:45.

A fatal case of MitraClip thrombosis.	496
E. Andrikopoulou, R.N.M. Mitchell, A.Y.K. Kim, D.C.S. Shook, T.K. Kaneko, P.B.S. Shah, Y.P.S. Sun (Boston, US)	

Multimodality imaging of an evergreen conundrum: true or false aneurysm of the left ventricle?	497
<i>E. Garau, D. Cocco, L. Corda, V. Palmisano, M. Porcu, M. Manca, G. Lixi, E.M. Cirio, L. Meloni, R. Montisci (Cagliari, IT)</i>	
A missed and misdiagnosed case of pericardial agenesis.	498
<i>C. Altin, E. Ozpelit, E. Gezmis, M.E. Ozpelit (Izmir, TR)</i>	
Delayed distal migration of a balloon expandable valve-in-valve transcatheter aortic valve: a clinical case and review of the literature.	499
<i>E. Andrikopoulou, A.Y.K. Kim, D.C.S. Shook, P.S.S. Sobieszczyk, M.P.P. Pelletier, T.K. Kaneko, P.B.S. Shah, Y.P.S. Sun (Boston, US)</i>	
Multiple cardiac myxomas on both mitral valve leaflets and left ventricular outflow tract: carney complex in a greek family.	500
<i>A. Siskos, P. Giannakopoulou, N. Gouliaros, P. Poullos, I. Zarifis (Thessaloniki, GR)</i>	
A common finding with an atypical (rare) presentation.	501
<i>J. Rigueira, N. Cunha, R. Ferreira, M. Rodrigues, J. Silva, N. Junqueira, A. Nobre, F.J. Pinto, A.G. Almeida (Lisbon, PT)</i>	
Secondary cardiac lymphoma complicated with tamponade.	502
<i>P.H. Lee (Hong Kong, HK)</i>	
12:45 - 13:45	MODERATED POSTERS
MODERATED ePOSTERS 2	
The importance of TOE	
Chairperson(s): A. Hagendorff (Leipzig, DE); K. Yiangou (Nicosia, CY)	
<i>Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 12:00 to 14:30. Presentation and discussion moderated by the chairpersons take place between 12:45 - 13:45.</i>	
Unlocking the mystery of haemolytic anaemia after mitral valve repair.	503
<i>T. Sotanasusak, T. Yingchoncharoen, S. Chaiyaroj, T. Limpijankit (Bangkok, TH)</i>	
Intramural hematoma post transcatheter valve replacement.	504
<i>O.C. Maresiu, M. Anton, S. Boeangiu, C. Margineanu, D. Penes, G. Marin, O. Geavlete, I. Kulcsar, R.I. Radu, E. Stoica, C. Parasca, V.A. Iliescu, E.L. Antohi, O. Chioncel (Bucharest, RO)</i>	
Car accident, an unusual cause of acute severe mitral regurgitation due to anterolateral papillary muscle rupture.	505
<i>H. El Jattari, E. Snijders, S. Laga, A. Van Berendoncks (AntwerpWilrijk, BE)</i>	
Severe aortic regurgitation in a young patient with left ventricular hypertrophy.	506
<i>A. S. Serban, A. S. Hodorogea, A. Iliesiu (Bucharest, RO)</i>	
Heat failure in restrictive ventricular septal defect.	507
<i>L.T. Lam, C.M. Tam, K.Y.Y. Fan (Hong Kong, HK)</i>	
Puerperal thrombosis on mitral valve prothesis.	508
<i>F.V. Moniz Mendonca, J.A.S. Sousa, J.M. Monteiro, M.R. Mraquel, M.N. Neto, G.C. Caires, D.F. Freitas (Funchal, PT)</i>	
The importance of transesophageal echocardiography in the therapeutic approach of a patient with Hakim-Adams syndrome and right atrial mass.	509
<i>R.S. Miftode, D. Crisu, A.O. Petris (Iasi, RO)</i>	

Afternoon Sessions

14:00 - 15:30 MAIN SESSION MOZART

Advanced critical care echocardiography

Chairperson(s): H. Skulstad (Oslo, NO); A. N. Neskovic (Belgrade, RS)

- 14:00 › Echocardiographic evaluation of patients on extracorporeal life support. 510
H. Soliman Aboumarie (London, GB)
- 14:22 › Advanced physiological echocardiography in shock states. 511
C. Debacker (JemeppeSurMeuse, BE)
- 14:45 › Advanced echocardiography in ventricular assist devices patients. 512
R. Stainback (Houston, US)
- 15:07 › Advanced use of lung ultrasound in cardiac intensive care. 513
L. Gargani (Pisa, IT)

14:00 - 14:30 SPECIAL SESSION STRAUSS

EuroEcho Lecture

Chairperson(s): T. Edvardsen (Oslo, NO); B. Cosyns (Brussels, BE)

- 14:00 › EuroEcho-Imaging Honorary Lecture: "Physics vs Gestalt: How Cardiovascular Imaging will Thrive with Artificial Intelligence". 514
J.D. Thomas (Chicago, US)
- 14:25 › Question & discussion. 515

14:30 - 15:30 DEBATE SESSION STRAUSS

Dr Jekyll & Mr Hyde session

Chairperson(s): T. Edvardsen (Oslo, NO); B. Cosyns (Brussels, BE)

This is a mobile app interactive session, Audience will be invited to interact during the presentations by answering questions when prompted by the speakers and can use «Ask» to send their questions directly to the chairpersons.

- 14:30 › Management of patients with aortic stenosis: multi imaging modalities is all I need. 549
J. Cavalcante (Minneapolis, US)
- 14:55 › Management of patients with aortic stenosis: echocardiography is all I need. 550
J. Cavalcante (Minneapolis, US)
- 15:02 › Management of patients with aortic stenosis: conclusion. 551
To be announced

14:00 - 15:30 TEACHING COURSE HAYDN

Advanced echo techniques I: Left ventricular function and mechanics

Chairperson(s): O. Smiseth (Oslo, NO); V. Mor-Avi (Chicago, US)

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

- 14:00 › Myocardial fibers and cardiac mechanics. 516
B. Bijnens (Barcelona, ES)
- 14:22 › 2D strain. 517
J. Hung (Boston, US)
- 14:45 › 3D strain. 518
M. Takeuchi (Kitakyushu, JP)
- 15:07 › Intraventricular mechanical dyssynchrony. 519
I. Stankovic (Belgrade, RS)

14:00 - 15:30 CLINICAL IMAGING SHOENBERG

Imaging: one stop shop for patients with stroke

Chairperson(s): L.E. Sade (Ankara, TR); R. Vidal-Perez (A Coruna, ES)

To understand in depth the pivotal role of echocardiography to approach patients in most commonly observed cardioembolic conditions with a particular emphasis on improving cardioembolic risk prediction in atrial fibrillation.

- 14:00 › Cardiovascular imaging for detection of cardio embolism sources. 520
S. Govind (Bangalore, IN)
- 14:22 › Thromboembolic risk in atrial fibrillation: is CHA2DS2VASc score enough? 522
T. M. Suter (Bern, CH)
- 14:45 › Role of echo in Left Atrial Appendage occlusion. 522
E. Brochet (Paris, FR)
- 15:07 › Role of echo for decision making for patients with Patent foramen Ovale. 523
H.M. Gabriel (Wien, AT)

14:00 - 15:30 SYMPOSIUM STEINER

Speckle tracking echocardiography - best validated clinical applications



Joint session with the Korean Society of Echocardiography (KSE)

Chairperson(s): G.A. Derumeaux (Creteil, FR); D.S. Kim (Busan, KR)

- 14:00 › Ischemic heart diseases: assessment of global & regional LV function. 524
Z. Vered (Zerifin, IL)
- 14:22 › Aortic stenosis Timing for intervention. 525
S.J. Park (Seoul, KR)
- 14:45 › Assessment of LV haemodynamics: LV work & PV loop. 526
Y.J. Kim (Seoul, KR)
- 15:07 › Speckle Tracking universal standartization and future clinical perspective. 527
P.P. Sengupta (Morgantown, US)

14:00 - 15:30 SYMPOSIUM SCHULZ

CRT Optimization: Is this the real life?



Joint session with the European Heart Rhythm Association (EHRA)

Chairperson(s): L. Herbots (Hasselt, BE); H. Heidbuchel (Antwerp, BE)

- 14:00 › What is important, mechanical or electrical dyssynchrony? 528
E. Donal (Rennes, FR)
- 14:22 › Long vs Short AV intervals? Or any way the wind blows. 529
C. Israel (Bielefeld, DE)
- 14:45 › Algorithms for chamber and timing optimization in CRT devices. 530
What are the effects in a real world population?
M. Lunati (Milano, IT)
- 15:07 › AV vs VV? Easy come, easy go. 531
L. Herbots (Hasselt, BE)

Afternoon Sessions

14:00 - 15:30 SYMPOSIUM MAHLER

Congenital tips and tricks for non-congenital specialists
Chairperson(s): A. Seale (Birmingham, GB); To be announced

- 14:00 › How to approach a scrambled heart: sequential segmental analysis. 532
A. Seale (Birmingham, GB)
- 14:22 › Haemodynamic assessment of left to right shunts using imaging. 533
F. Raimondi (Paris, FR)
- 14:45 › How should I describe this VSD? 534
O. Miller (London, GB)
- 15:07 › What on earth did the surgeon do? 535
N. Viola (Southampton, GB)

14:00 - 15:30 WORKSHOP SCHUBERT 3

Focus on aortic valve disease (native and prosthetic)
Workshop on Transoesophageal Echocardiography (TOE)

To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment.

- 14:00 › Presenter: 536
A. Moreo (Milan, IT)

14:00 - 15:30 WORKSHOP BERG

Focus on aortic valve disease (native and prosthetic)
Workshop on Transoesophageal Echocardiography (TOE)

To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment.

- 14:00 › Presenter: 537
S. Mihaila (Bucuresti, RO)

14:00 - 15:30 RAPID FIRE ABSTRACTS AGORA

Artificial intelligence, deep-learning, 3D printing... what is the future of imaging?
Chairperson(s): E. Schwammenthal (Tel Hashomer, IL); D. Neglia (Pisa, IT)

Fast paced and interactive session with key messages of 10 abstracts.

- 14:00 › Panel of experts: 538
B.P. Paelinck (Edegem, BE); J. D'hooge (Leuven, BE)
- 14:08 › Optimized multiparametric analysis of cardiac dyssynchrony: machine learning and prediction of response to cardiac resynchronization therapy based of the apical 4-chamber view 539
A. Gallard, E. Donal, V. Le Rolle, A. Hubert, A. Bidaut, C. Leclercq, E. Galli, A. Hernandez (Rennes, FR)
- 14:16 › Assessment of left ventricular ejection fraction from echocardiographic images using machine learning algorithm 540
N. Yamaguchi, K. Kusunose, A. Haga, S. Morita, Y. Hirata, Y. Torii, S. Nishio, Y. Ookushi, T. Takahashi, N. Yamada, H. Yamada, M. Sata (Tokushima, JP)
- 14:24 › Turning novices into experts: can artificial intelligence transform echocardiography training? 541
H. Langet, M. Bonopera, M. De Craene, A. Popoff, E. Denis, G. Pizaine, L. Dormoy, E. Talgorn, A. Hodzic, N. Villain, P. Allain, E. Saloux (Suresnes and Caen, FR; Eindhoven, NL)

Afternoon Sessions

14:32 ›	Non-invasive risk assessment of the left atrial appendage thrombosis using deep learning methods. A. Suvorov, G. Melik Ogandzhanyan, E. Dmitrieva, N. Voskresenskaya, A. Kruglov (Moscow, RU)	542
14:40 ›	Automated detection of mitral annular plane systolic excursion in transoesophageal echocardiography based on deep learning. T. Nordal, E. A. R. Berg, G. Kiss (Trondheim, NO)	543
14:49 ›	Deep learning in segmentation and function evaluation of right ventricle in 2D echocardiography. A. Karuzas, K. Sablauskas, D. Verikas, E. Teleisyte, L. Skrodenis, D. Matuliauskas, J. Balciunas, J. Mileris, E. Rumbinaite, D. ZaliaduonytePeksiene, J.J. Vaskelyte, R. Jurkevicius, J. Plisiene (Kaunas and Vilnius, LT)	544
14:57 ›	Deep learning/artificial intelligence for automatic measurement of global longitudinal strain by echocardiography. I.M. Salte, A. Oestvik, E. Smistad, D. Melichova, T.M. Nguyen, H. Brunvand, T. Edvardsen, L. Loevestakken, B. Grenne (Kristiansand, Trondheim, Arendal and Oslo, NO)	545
15:05 ›	Machine-learning based exploration of echocardiographic patterns and clinical parameters to understand their relation to death or transplant in pediatric dilated cardiomyopathy. S. SanchezMartinez, C. Slorach, W. Hui, L. Mertens, B.H. Bijmens, M. Friedberg (Barcelona, ES; Toronto, CA)	546
15:13 ›	Point-of-care cardiac assessment using machine learning to guide image acquisition. A.S. Pearlman, A. Narang, H. Hong, C. Hsieh, A. Chaudhry, C. Chen, S. Guttas, S. Surette, N. Parajuli, N. Polivert, C. Cadieu, R.P. Martin, J.D. Thomas, N.J. Weissman (Seattle, Chicago, San Francisco and Washington, DC, US)	547

15:30 - 16:30 ABSTRACT - SESSION AGORA

Young Investigator Award session - Clinical Science

The Roelandt's Young Investigator Award

Chairperson(s): T. Edvardsen (Oslo, NO); G. Habib (Marseille, FR)

Judge(s): K. Haugaa (Oslo, NO); G.A. Derumeaux (Creteil, FR); F.A. Flachskampf (Uppsala, SE); M. Pepi (Milan, IT)

Four finalists in competition for the "Young Investigator Award session - Clinical Science, "Prize".

Sessions will be chaired by senior faculty members and presentations evaluated by a panel of renowned judges.

15:30 ›	Natural history of bivalvular functional regurgitation. G. Heitzinger, P.E. Bartko, H. Arfsten, N. Pavo, M.P. Winter, A. Toma, G. Strunk, C. Hengstenberg, M. Huelmann, G. Goliasch (Vienna, AT)	552
15:45 ›	Acute re-distribution of regional left ventricular work by cardiac resynchronization therapy determines long-term remodelling. J. Duchenne, J.M. Aalen, M. Cvijic, C.K. Larsen, E. Galli, S. Bezy, A.S. Beela, S. Winter, M. Penicka, E. Hopp, E. Kongsgard, E. Donal, W. Fehske, O.A. Smiseth, J.U. Voigt (Leuven and Aalst, BE; Oslo, NO; Rennes, FR; Koln, DE)	553
16:00 ›	Atrial mechanical dispersion in patients with atrial fibrillation undergoing catheter ablation: a strain study. A. Katbeh, Z. Balogh, E. Stefanidis, T. De Potter, P. Geelen, K. Iliodromitis, E. Barbato, G. Van Camp, M. Penicka (Aalst, BE)	554
16:15 ›	Right ventricular longitudinal strain of patients with pulmonary hypertension. M. Fontes Oliveira, M. Tropa, R. Costa, A. Dias Frias, I. Silveira, S. Cabral, M. Santos, S. Torres, A. Reis (Porto, PT)	555

15:30 - 16:30

MODERATED POSTERS

MODERATED ePOSTERS 1

Imaging: systolic and diastolic function**Chairperson(s): E. Donal (Rennes, FR); P. Marino (Novara, IT)**

Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 14:30 to 18:00. Presentation and discussion moderated by the chairpersons take place between 15:30 - 16:30.

Shear wave imaging using ultra- high frame rate echocardiography for the assessment of structural changes in cardiac transplant recipients. 556

A.M. Petrescu, S. Bezy, M. Cvijic, P. Santos, M. Orlowska, J. Pedrosa, J. Van Keer, J. Duchenne, J. Bogaert, J. Van Cleemput, S. Von Bardeleben, J. D'hooge, J.U. Voigt (Leuven, BE; Mainz, DE)

Left ventricular diastolic function is a predictor of volumetric response to cardiac resynchronization therapy. 557

E. Galli, J. Aalen, J. Duchenne, C. Larsen, A. Hubert, E. Saade, V. Le Rolle, C. Leclercq, O. Smiseth, J.U. Voigt, E. Donal (Rennes, FR; Oslo, NO; Leuven, BE; Ankara, TR)

Prevalence of diastolic dysfunction according to EACVI/ASE guidelines from 2009 and 2016 in a 63-65 years old general population cohort-Data from the ACE 1950 study. 558

K.A. Sveen, E. Aagaard, T. Berge, S. Enger, E. Orstad Bjoerkan, H. Roesjoe, T. Omland, A. Tveit, K. Steine (Lorenskog and Gjettem, NO)

An analysis of myocardial efficiency in patients with severe asymptomatic mitral regurgitation. 559

R. Cetin Guvenc, E. Arugaslan, T.S. Guvenc, F. Ozpamuk Karadeniz, H. Kasikcioglu, N. Cam (Istanbul, TR)

The inclusion of pulmonary arterial pressure misclassifies diastolic function using the current EACVI guidelines in pre-capillary pulmonary hypertension. 560

A. Telmisani, J. Deschamps, A. Alturki, B. Fox, I.A. Sebag, R.D. Schlesinger, J. Afilalo, M.J. Eisenberg, A. Abualsaud, D. Langleben, L. Rudski (Montreal, CA; Tel Aviv, IL)

Targeting septal work and viability identifies responders to cardiac resynchronization therapy. 561

J. Aalen, E. Donal, C.K. Larsen, J. Duchenne, M. Cvijic, C. Leclercq, J. Bogaert, E. Hopp, J.G. Fjeld, M. Penicka, C. Linde, E. Kongsgaard, E. Galli, J.U. Voigt, O.A. Smiseth (Oslo, NO; Rennes, FR; Leuven and Aalst, BE; Stockholm, SE)

Can 2D speckle tracking echocardiography have an additional impact on prediction of hospitalizations due to heart failure decompensation in patients with ischemic left ventricular systolic dysfunction. 562

M. Szwoch, D. Kaufmann, G. Raczak, L. DanilowiczSzymanowicz (Gdansk, PL)

Early systolic function is impaired in patients with heart failure and preserved ejection fraction and is a more important predictor of clinical outcomes than diastolic function. 563

H. Gu, J. Webb, R. Razavi, A. Shah, G. CarrWhite, P. Chowienzyk (London, GB)

15:30 - 16:30

MODERATED POSTERS

MODERATED ePOSTERS 2

Imaging: acute coronary syndrome**Chairperson(s): S. Price (London, GB); N. Cardim (Lisbon, PT)**

Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 14:30 to 18:00. Presentation and discussion moderated by the chairpersons take place between 15:30 - 16:30.

Cardiac magnetic resonance myocardial feature tracking for optimized risk assessment after acute myocardial infarction in patients with type 2 diabetes. 564

J.T. Kowallick, S.J. Backhaus, T. Stiermaier, T. Lange, J.L. Navarra, A. Koschalka, K.P. Rommel, J. Lotz, M. Gutberlet, S. Kutty, G. Hasenfus, H. Thiele, I. Eitel, A. Schuster (Göttingen, Luebeck and Leipzig, DE; Omaha, US)

Impact of right atrial physiology on heart failure and adverse events after myocardial infarction. 565

A. Schuster, S.J. Backhaus, J.L. Navarra, T. Stiermaier, K.P. Rommel, A. Koschalka, J.T. Kowallick, J. Lotz, B. Bigalke, S. Kutty, M. Gutberlet, G. Hasenfus, H. Thiele, I. Eitel (Göttingen, Luebeck, Leipzig and Berlin, DE; Omaha, US)

Afternoon Sessions

Myocardial left ventricular mechanical uniformity and adverse cardiac events following myocardial infarction.	566
<i>T. Stiermaier, S.J. Backhaus, T. Lange, A. Koschalka, J.L. Navarra, P. Boom, P. Lamata, J.T. Kowallick, J. Lotz, G. Hasenfus, M. Gutberlet, H. Thiele, I. Eitel, A. Schuster (Göttingen, Leipzig and Luebeck, DE; London, GB)</i>	
Interplay of infarct territory related myocardial mechanics and prognostic implications following acute myocardial infarction.	567
<i>S.J. Backhaus, J.T. Kowallick, T. Stiermaier, T. Lange, A. Koschalka, J.L. Navarra, J. Lotz, S. Kutty, B. Bigalke, M. Gutberlet, H.J. Feistritz, G. Hasenfus, H. Thiele, I. Eitel, A. Schuster (Göttingen, Luebeck, Berlin and Leipzig, DE; Omaha, US)</i>	
Imaging and quantitative estimation of thrombus burden in patients with ST elevation acute myocardial infarction (STEMI) with the use of micro-computed tomograph-A methodological approach.	568
<i>E. Karagiannidis, N.V. Konstantinidis, G. Sofidis, E. Chatzinikolaou, G. Sianos (Thessaloniki and Heraklion, GR)</i>	
Association between periodontal disease, coronary calcium score and markers of subclinical atherosclerosis in patients with unstable angina-a CT-based sub-study from the ATHERODENT clinical trial.	569
<i>I.P. Rodean, L. Lazar, D.E. Opincariu, N. Rat, R.I. Hodas, M. Ratiu, M. Chitu, T.H. Benedek, I. Benedek (TirguMures and Tirgu Mures, RO)</i>	
Myocardial deformation imaging after STEMI: can we better predict one-year mortality and heart failure development?	570
<i>D. Trifunovic, G. Krljanac, M. Asanin, L. SavicSpasic, S. Aleksandric, J. Dudic, L. Cucic, V. Sulovic, I. Mrdovic (Belgrade, RS)</i>	
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<i>D. De Campos, C. Saleiro, R. Teixeira, A. Botelho, J. Lopes, L. Puga, J. M. Ribeiro, J. Sousa, C. Lourenco, L. Reis, M. Madeira, L. Goncalves (Coimbra, PT)</i>	

15:40 - 16:25 HOW-TO SESSION STRAUSS

How to early detect cardiotoxicity

Chairperson(s): S. Mihaila (Bucuresti, RO)

How-to session provides 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.

15:40 › Presenter:	572
<i>M. Galderisi (Naples, IT)</i>	

15:40 - 16:25 TEACHING COURSE SCHUBERT 6

Back to the basics



Chairperson(s): D. Mele (Cona, IT); A. Sozzi (Milan, IT)

15:40 › Basic principles of ultrasound and settings of the machine.	573
<i>N. Van De Veire (Gent, BE)</i>	
15:55 › How to acquire and archive the images.	574
<i>N. Van De Veire (Gent, BE)</i>	
16:10 › Indications / clinical scenarios.	575
<i>N. Van De Veire (Gent, BE)</i>	

16:30 - 18:00 MAIN SESSION MOZART

Multidisciplinary approach for Takotsubo cardiomyopathy

Joint session with the Japanese Society of Echocardiography (JSE)
Chairperson(s): E. Bossone (Lauro, IT); S. Nakatani (Takarazuka, JP)

- 16:30 › Echocardiographic approach. 576
H. Okura (Gifu, JP)
- 16:52 › Atypical forms of Takotsubo cardiomyopathy. 577
J.R. Ghadri (Zurich, CH)
- 17:15 › Hemodynamics of Takotsubo cardiomyopathy. 578
M. Izumo (Kawasaki, JP)
- 17:37 › How to integrate multimodality maging. 579
R. Citro (Salerno, IT)

16:30 - 18:00 DEBATE SESSION STRAUSS

Cardiac imaging for TAVI and MitraClip procedures

Chairperson(s): P.P. Sengupta (Morgantown, US); J.D. Morales Portano (Mexico, MX)
This is a mobile app interactive session, Audience will be invited to interact during the presentations by answering questions when prompted by the speakers and can use "Ask" to send their questions directly to the chairpersons.

- 16:30 › Positioning of the topic: Impact of cardiac imaging on the choice surgery vs. TAVI in intermediate risk aortic stenosis. 580
P.P. Sengupta (Morgantown, US)
- 16:40 › Impact of cardiac imaging on the choice surgery vs. TAVI in intermediate risk aortic stenosis - PRO TAVI. 581
P. Pibarot (Quebec, CA)
- 16:50 › Impact of cardiac imaging on the choice surgery vs. TAVI in intermediate risk aortic stenosis - PRO surgery. 582
F. Maisano (Zurich, CH)
- 17:00 › Rebuttal - PRO TAVI. 583
P. Pibarot (Quebec, CA)
- 17:03 › Rebuttal - PRO surgery. 584
F. Maisano (Zurich, CH)
- 17:06 › Conclusion and take home message. 585
P. Pibarot (Quebec, CA)
- 17:15 › Positioning of the topic: MitaClip in partients with moderate functional mitral regurgitation: the imaging perspectives. 586
T. Helle-Valle (Oslo, NO)
- 17:25 › MitaClip in partients with moderate functional mitral regurgitation: the imaging perspectives - PRO. 587
N. Ajmone Marsan (Leiden, NL)
- 17:35 › MitaClip in partients with moderate functional mitral regurgitation: the imaging perspectives - CONTRA. 588
G. Leurent (Rennes, FR)
- 17:45 › Rebuttal - PRO. 589
N. Ajmone Marsan (Leiden, NL)
- 17:48 › Rebuttal - CONTRA. 590
G. Leurent (Rennes, FR)
- 17:51 › Conclusion and take home message. 591
T. Helle-Valle (Oslo, NO)

16:30 - 18:00

TEACHING COURSE

HAYDN

Advanced echo techniques II: principles and pitfalls in interpretation**Chairperson(s):** L. Pierard (Liege, BE); M. Pepi (Milan, IT)*Teaching courses are specifically dedicated to an audience aiming to improve its knowledge and understanding and perfect its skills in a main topic of the Core curriculum of the EACVI.*

- 16:30 › Transesophageal echocardiography. 592
A. Stefanidis (Athens, GR)
- 16:52 › Stress echocardiography in ischemic heart disease. 593
R. Sicari (Pisa, IT)
- 17:15 › Stress echocardiography in nonischemic heart disease. 594
E. Picano (Pisa, IT)
- 17:37 › Contrast echocardiography. 595
R. Senior (London, GB)

16:30 - 18:00

CLINICAL IMAGING

SHOENBERG

Diagnosis and management of cardiac amyloidosis**Chairperson(s):** T. Marwick (Melbourne, AU); J.K. Oh (Rochester, US)*To understand the most up to date data for diagnosis, risks stratification and treatment approaches to cardiac amyloidosis in the light of imaging for optimizing patient outcome.*

- 16:30 › State of the art imaging in cardiac amyloidosis. 596
T.S. Clemmensen (Viby J, DK)
- 16:52 › Risk assessment in cardiac amyloidosis. 597
S. Mankad (Rochester, US)
- 17:15 › Differential diagnosis by imaging from other hypertrophic conditions. 598
S. Iwanaga (Tokyo, JP)
- 17:37 › Current and emerging approaches to treatment. 599
C. Rapezzi (Bologna, IT)

16:30 - 18:00

SYMPOSIUM

STEINER

Multimodality imaging in patients with coronary artery disease. New recommendations from EACVI and ASE**Joint session with the American Society of Echocardiography (ASE)****Chairperson(s):** M. Sitges (Barcelona, ES); A. DeMaria (San Diego, US)

- 16:30 › Ischemia, anatomy and Calcium: All, some or none? Overview of imaging in CAD. 600
F. Asch (Washington, US)
- 16:52 › Recommended approach for the patients with acute chest pain. 601
O. Kamp (Amsterdam, NL)
- 17:15 › Recommended approach for the patient with stable coronary disease. 602
J.R. Lindner (Portland, US)
- 17:37 › What news do these recommendations bring, and where are we heading? 603
T. Edvardsen (Oslo, NO)

16:30 - 18:00 SYMPOSIUM STEINER

The how and why of intracardiac vector flow imaging**Joint session with the Asia-Pacific Association of Echocardiography (AAE)****Chairperson(s): P. Vandervoort (Genk, BE); A. Lee (Hong Kong, HK)**

- 16:30 › Characterization of intraventricular vortex flow by contrast echocardiography. 604
G. Pedrizzetti (Prato, IT)
- 16:52 › Intracardiac flow in newborn patients with congenital heart disorders. 605
S. Fadnes (Trondheim, NO)
- 17:15 › Intracardiac flow mapping in heart failure. 606
Y.F. Cheung (Hong Kong, HK)
- 17:37 › Intracardiac flow mapping in valve disease. 607
G.R. Hong (Seoul, KR)

16:30 - 18:00 SYMPOSIUM MAHLER

Focus on the right ventricle**Chairperson(s): M. Puchalski (Salt Lake City, US); T. Bharucha (Southampton, GB)**

- 16:30 › RV in HLHS - can we predict failure? 608
J. Simpson (London, GB)
- 16:52 › RV in ccTGA- can we predict failure? 609
M. Puchalski (Salt Lake City, US)
- 17:15 › RV in tetralogy - can we predict failure? 610
M. Cohen (Philadelphia, US)
- 17:37 › Arrhythmogenic RV dysplasia - can we predict failure? 611
G. Pieles (Bristol, GB)

16:30 - 18:00 WORKSHOP SCHUBERT 3

Focus on left atrial appendage closure**Workshop on Transoesophageal Echocardiography (TOE)****Chairperson(s): T. Edvardsen (Oslo, NO); G. Habib (Marseille, FR)***To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment.*

- 16:30 › Presenter: 612
M.L. de Alcantara (Rio De Janeiro, BR)

16:30 - 18:00 WORKSHOP BERG

Focus on right heart pathology**Workshop on Transoesophageal Echocardiography (TOE)****Chairperson(s): T. Edvardsen (Oslo, NO); G. Habib (Marseille, FR)***To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment.*

- 16:30 › Presenter: 613
H. Soliman Aboumarie (London, GB)

16:30 - 18:00

RAPID FIRE ABSTRACTS

AGORA

New insights in aortic stenosis**Chairperson(s): M.A. Clavel (Quebec, CA); V. Rigolin (Chicago, US)**

Fast paced and interactive session with key messages of 10 abstracts.

- | | | |
|---------|--|-----|
| 16:30 › | Panel of experts:
<i>J. Dahl (Odense C, DK); A. Calin (Bucharest, RO)</i> | 614 |
| 16:38 › | Symptomatic status and outcomes in a real-world severe aortic stenosis population.
<i>R. Ventura Gomes, J. Pais, A.R. Pereira, D. Sebaiti, I. Cruz, A.R. Almeida, I. Joao, H. Pereira (Vila Franca de Xira, Evora and Almada, PT)</i> | 615 |
| 16:46 › | Aortic stenosis: changing with age?
<i>J. Ramos Jimenez, S. Hernandez, M. Plaza Martin, J.L. Zamorano Gomez (Madrid, ES)</i> | 616 |
| 17:02 › | Adaptive myocardial mechanics in aortic stenosis patients.
<i>M. Alfarih, A. Alfuhied, P. Kumar M, G. Lloyd, A. D. Hughes, J. C. Moon, S. Mohiddin, G. Captur, P. Nihoyannopoulos (London, GB; Chandigarh, IN)</i> | 618 |
| 17:10 › | Left ventricle remodelling in severe aortic stenosis: analysis of a large cohort of patients.
<i>J. Ramos Jimenez, S. Hernandez, M. Plaza Martin, J.L. Zamorano Gomez (Madrid, ES)</i> | 619 |
| 17:19 › | Normalized stroke volume in severe aortic stenosis with preserved ejection fraction: reference values and out-come implications.
<i>Y. Bohbot, D. Rusinaru, E. Rietzschel, M. De Buyzere, O. Buicuic, S. Marechaux, T. Gilebert, T. Tribouilloy (Amiens and Lille, FR; Ghent, BE)</i> | 620 |
| 17:27 › | Anemia and its impact on clinical, echocardiographic parameters and prognosis in patients with severe aortic stenosis and normal left ventricular ejection fraction.
<i>C. Beladan, A. Calin, A.D. Mateescu, M. Rosca, R. Enache, D. Cadil, C.A. Parasca, S. Botezatu, C. Gingham, B.A. Popescu (Bucharest, RO)</i> | 621 |
| 17:35 › | Predicting post-intervention survival improvement in aortic stenosis through interpretable machine learning.
<i>C. Nunes, H. Langet, M. De Craene, J.L. Vanoverschelde, B.L.M. Gerber, O. Camara, A. Jonsson, B. Bijnens (Barcelona, ES; Suresnes, FR; Brussels, BE)</i> | 622 |
| 17:43 › | Short-term reversed remodeling post aortic valve intervention.
<i>M. Alfarih, A. Alfuhied, G. Lloyd, A. D. Hughes, J. C. Moon, S. Mohiddin, G. Captur, P. Nihoyannopoulos (London, GB)</i> | 623 |
| 17:51 › | Is TAVI a useful procedure in paradoxical low flowlow gradient aortic stenosis? A longterm mortality study.
<i>L. Fusini, M. Muratori, N. Corrieri, I. Capodaglio, G. Tamborini, S. Ghulam Ali, G. Italiano, P. Gripari, L. Salvi, M. Roberto, F. Fabbicchi, M. Agrifoglio, A.L. Bartorelli, F. Alamanni, M. Pepi (Milan, IT)</i> | 624 |

A decorative line consisting of a horizontal segment, a vertical segment, and a horizontal segment, with dots at the ends and intersections.

Thursday Posters

HIGH SCORE POSTERS:

Look out for these abstracts acknowledged
by the reviewing committee

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08:30 - 18:00

POSTER SESSION

POSTER AREA

Heart Imagers of Tomorrow (HIT) Clinical Case Poster session 2

All posters are on display from 08:30 to 18:00.

From 12:45 to 13:45 - Meet the presenters by their poster

Lunch time Heart Imagers of Tomorrow Poster hosts - 12:45 - 13:45.

A. Fraser (Cardiff, GB); N.E. Hasselberg (Oslo, NO); I. Stankovic (Belgrade, RS); S. Tsonev (Sofia, BG); R. Laymouna (Alexandria, EG); N. Kagiya (Morgantown, US)

Peripartum cardiomyopathy with persistent ventricular dysfunction and intracavitary thrombosis despite treatment with dopamine receptors agonist. The role of the threedimensional echocardiography.

Z.Y. Vasquez-Ortiz, R. Gonzalez-Varela, J. Navarrete Garcia, P. Hernandez-Reyes, J. Oseguera Moquel (Mexico City, MX)

Step by step valve destruction in infective endocarditis with no apparent vegetations.

M. Skafar, A. Ovsenik, J. Toplisek, B. Berlot, M. Bervar (Ljubljana, SI)

A pulmonary stenosis and patent foramen ovale : a rare association with stroke in elderly.

I. Bouhlel, O. Ben Rejeb, A. Fekih, H. Thabet, N. Kefi, S. Ernez, A. Mahdhaoui, G. Jeridi (Sousse, TN)

An uncommon cause for a frequent problem.

H. Miranda, H. Santos, I. Almeida, M. Santos, C. Sousa, S. Almeida, L. Santos, J. Tavares (Lisbon, PT)

Recovery of non-bacterial thrombotic endocarditis and severe aortic regurgitation in a young patient with acute promyelocytic leukemia.

L. Kuffer, M.I. Koerber, F. Nettersheim, T. Tichelbaecker, C. Hohmann, A.K. Schaetzle, K. Kabbasch, J.G. Borrega, B. Boell, F. Kohle, C. Warnke, S. Baldus, H. Ten Freyhaus (Cologne, DE)

A misleading EKG and the saviour echo.

H. Miranda, H. Santos, I. Almeida, C. Sousa, J. Chin, S. Almeida, M. Santos, L. Santos, J. Tavares (Lisbon, PT)

Apical mass after acute myocardial infarction.

R. Jimenez Arjona, P. Cepas-Guillen, A. Doltra, J. T. Ortiz, B. Vidal (Barcelona, ES)

Murmuring the diagnosis.

G. Tiucu, F. Ait Yahia (Corbeil-Essonnes, FR)

Right atrial mechanics determined by speckle tracking strain as a more physiologic correlation in pulmonary hypertension

P. Ramirez, C. Orihuela, M. Alvarez, M. Ayala (Mexico City, MX)

Echocardiographic-fluoroscopic fusion imaging: a new technology applied in pediatric ventricular tachycardia ablation.

P. Jone, M. Runciman, K.K. Collins (Aurora, US)

A unique case of purulent pericarditis resulting in cardiac tamponade.

H. Shah, V.K. Le (Thunder Bay, CA)

Young infant with cardiac failure secondarily to Isolated MAPCAs: Timely diagnosis and surgical intervention. An interesting case to learn.

A.S. Ali, M.K.M. Malik, D.C. Chowdhury, S.A.M. Maskatia, F.A. Ali (Karachi, PK; Lancaster PA 17601 and California, US)

Short term reverse remodeling and exercise capacity improvement in a patient with valvular heart failure treated with Sacubitril Valsartan.

M. Mapelli, V. Mantegazza, V. Volpato, V. Sassi, F. De Martino, E. Salvioni, I. Mattavelli, L. Fusini, C. Vignati, S. Paolillo, N. Corrieri, M. Alimento, A. Magini, M. Pepi, P. Agostoni (Milan and Naples, IT)

Dehiscence of Bio-Bentall aortic graft after repeated staphylococcus aureus infective endocarditis.

A. Ovsenik, T. Klokocovnik, M. Cercek, S. Frljak, M. Bervar (Ljubljana, SI)

Multimodality imaging of an asymptomatic aortic fibroelastoma successfully treated with a surgical valvesparing technique.

D. Cocco, T. Gonzalez Vargas, L. Cossu, G. Matta, S. Cossa, C. Manieli, G. Locci, E.M. Cirio (Cagliari, IT; Granada, ES)

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08:30 - 18:00 POSTER SESSION POSTER AREA

Heart Imagers of Tomorrow (HIT) Poster session 2

All posters are on display from 08:30 to 18:00. From 12:45 to 13:45 - Meet the presenters by their poster	
Lunch time Heart Imagers of Tomorrow Poster hosts - 12:45 - 13:45.	P652
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<i>J. Ibero, A. Riesgo, M. Rodriguez, M. Morales, J. Muniz, N. Salterain, A. De La Fuente, E. Refoyo, A. Hernandez, R. Lecumberri, M.J. Garcia Velloso, I. Diaz, J.J. Gavira (Navarra, ES)</i>	
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<i>R. Esposito, R. Sorrentino, A. Ponsiglione, C. Santoro, M. Lembo, E. Riccio, M. Imbriaco, A. Pisani, M. Galderisi (Naples, IT)</i>	
Subpulmonary left ventricular dysfunction is associated with severity of heart failure in patients with systemic right ventricle.	P679
<i>E. Surkova, T. Segura, K. Dimopoulos, C. Flick, C. West, R. Senior, M. Gatzoulis, W. Li (London, GB)</i>	

08:30 - 12:30

POSTER SESSION

POSTER AREA

Clinical case poster session 2

All posters are on display from 08:30 to 12:30.
From 10:00 to 11:00: Meet the presenters by their poster.

Echocardiography: Masses and Sources of Emboli

Aortic arch myxoma with multiple peripheral embolism.	P680
<i>K. Starzyk, E. Pietrzyk, Z. Starzyk, S. Gluszek, B. WozakowskaKaplon (Kielce, PL)</i>	
Surprise imaging findings in an asymptomatic patient with an ECG suggestive of apical hypertrophic cardiomyopathy.	P681
<i>D. Cadil, A. Calin, C. Calin, B. A. Popescu (Bucharest, RO)</i>	
Paradoxical cerebral infarction due to massive pulmonary embolism in extracorporeal cardiopulmonary resuscitation and surgical embolectomy.	P684
<i>H. Shiota, E. Kagawa, M. Kato, N. Oda, E. Kunita, M. Nagai, K. Dote (Hiroshima, JP)</i>	
Isolated Large Cardiac Hydatid Cyst in the Interventricular Septum.	P685
<i>C. Tunca, H. Pamukcu (Ankara, TR)</i>	
Right atrial, right ventricular and pulmonary cement embolism: a rare complication of percutaneous vertebroplasty.	P686
<i>S. Akhunova, R. Khayrullin, N. Stekolshchikova, M. Samigullin, V. Padiryakov (Kazan, RU)</i>	
Left atrial mass - a potential pitfall.	P687
<i>A. Skarlovnik, B. Erzen (Ljubljana, SI)</i>	

Formation of large "white" blood clots in the vena cava inferior and right atrium in a pilot of shortrange aircraft. P688
A. Tsokolov, V.A. Krylov, A.I. Trofimets, I.B. Ilyin (Kaliningrad, RU)

Surgical treatment of a right heart thrombus-in-transit with massive bilateral pulmonary embolism. P689
C.M. Angelescu, I. Hantulie, Z. Galajda, I. Mocanu, A.T. Paduraru, D. Carpaciu, S.I. Dumitrescu, R.F. Bolohan (Bucharest, RO)

Pulmonary valve endocarditis complicated with fistula between right ventricle outflow tract and aorta in a patient with patent ductus arteriosus P690
D. Toader, A. Craciun Mirescu, M. Cocora, O. Munteanu, E.R. Mustafa, C. Florescu, M. Berceanu, M. Popescu, A. Cojocar, A. Oprian (Craiova and Timisoara, RO)

New onset severe mitral regurgitation in oncological patient: when the disease progresses. P691
G. Ramirez-Escudero Ugalde, M. Codina Prat, R. Candina Urizar, N. Garcia Ibarrondo, A. Manzanal Rey, L. Ruiz Gomez, K. Ugedo Alzaga, M. Castellanos Alcalde, A. Lambarri Izaguirre, C. Asla Ormaza, J.M. Ormaetxe Merodio (Bilbao, ES)

Transesophageal Echocardiography

Curious Bentall procedure complications, not always found in the immediate postoperative period. P692
S. Blasco Turrion, P. Gonzalez Perez, J.A. Sanchez Brotons, A. Gomez Lopez, F.J. Morales Ponce (Puerto Real, ES)

Late shunt closure: is it the only cause of pulmonary hypertension after surgical repair? P694
I. Almeida, F. Ferreira, A.R. Almeida, D. Repolho, I. Joao, H. Pereira (Barreiro and Almada, PT)

Tissue Doppler, Speckle Tracking and Strain Imaging

Is reference value of left atrial strain using 2D echocardiography really reliable? P695
M. Takeuchi, K. Negishi, Y. Nabeshima, K. Otani, Y. Otsuji (Kitakyushu, JP; Sydney, AU)

3D Echocardiography

The role of three dimensional echocardiography in a case of recurrent infundibular pulmonary stenosis in a surgically corrected tetralogy of fallot. P696
A. Hussien, H. Abdelgawad, A. Almaghraby, M. Abdelnabi, M.A. Abdelhay (Alexandria, EG)

Left ventricular non compaction highlighted by three-dimensional and speckle tracking echocardiography. P697
V.T. Hotta, L.M.B. Martinelli, F. Fernandes, V.A. Moises, M.L.C. Vieira, C. Mady (Sao Paulo, BR)

Incidentally idiopathic left atrial appendage ostial stenosis detected by realtime-3D TEE P698
M.I.A.O. Ya-Jing, F. Fang, Y.I.N. HongNing (Shijiazhuang and Beijing, CN)

Intraoperative and Interventional Echocardiography

Atrial septum tearing due to balloon sizing in percutaneous closure of ASD. P699
C. Alak, E. Ozpelit, D. Cırgamis, O. Badak, O. Goldeli (Izmir, TR)

TEE guidance of percutaneous closure the inlet and exit of ascending aorta pseudoaneurysm in a patient had triple valve replacement. P700
H. Abdo Naeim, I. H. Alharbi, O.S.A.M.A. Alamoudi, W. M. Saeed, R. A. Abuelatta (Madina, SA)

Echocardiography, Other

Usefulness of echocardiography in diagnosis and monitoring in patient with pulmonary embolism during pregnancy, a case report. P701
K. Starzyk, P. Dybich, K. Ciuraszkiewicz, W. Rokita, B. WozakowskaKaplon (Kielce, PL)

An unusual echocardiographic finding of protrusive vegetation caused by perivalvular abscess perforation into the left atrium.

P702

S. Suzuki, Y. Takeuchi, N. Hiramatsu, H. Tsuneyoshi, T. Shimada (Shizuoka, JP)

A breathtaking heart. The loeffler's endocarditis.

P703

A. Carcaterra, S. Moch, T. Sologashvili, H. Muller, A. Testuz (Geneva, CH)

Mechanical complications of acute myocardial infarction in the era of early reperfusion therapy: a case report.

P704

T. Proenca, R. Alves Pinto, M. Martins Carvalho, A. Nunes, P.M. Araujo, S. Torres, C.X. Resende, P.D. Grilo, P. Dias, M. Paiva, J. Casanova, M.J. Maciel, F. Macedo (Porto, PT)

Is chest wall deformity a serious issue? A rare case of TGFBR1 mutation in the paediatric population.

P705

L. Abood, S. Padmanabhan (Truro, GB)

Cross-Modality and Multi-Modality Imaging Topics

LMCA and LAD coronary ectasia in an asymptomatic young patient reassessment with multimodality imaging after 17 years.

P706

E. Ayduk, P. Karaca Ozer, M. Dursun, S. Umman, Y.C. Toktas, Z. Bugra (Istanbul, TR)

Positive rest and negative adenosine stress perfusion in typical angina.

P707

K. Mitrousi, S. Moharem-Elgamal, N. Manghat, M. Hamilton (Bristol, GB)

Imaging: Cardiac Dimensions, Volume, and Mass

Multimodality imaging of catheter-related right atrial thrombus: a case report.

P708

N. Skofic, A. Dolinsek, K. Prokselj (Ljubljana, SI)

Imaging: Valve Disease

Rare complication of delayed iatrogenic critical left main coronary (LMC) occlusion after a re-do aortic valve replacement (AVR) post an acute prosthetic valve intrinsic dysfunction in a young patient.

P709

G. Fady, A.M. Komaranchath, F.B. Al Bakshy, M.K. Kakani (Al Ain, AE)

Imaging: Heart Failure

Nivolumab-induced takotsubo syndrome: a case report.

P710

F. Prevedello, G. Dolci, R.M. Tenaglia, I. Lobascio, C. Paolini, C. Bilato (Vicenza, IT)

Rapid and severe decompensation of obstructive hypertrophic cardiomyopathy.

P711

A.M. Pascal, A. Scarlatescu, A. Alexandrescu, M. Dorobantu (Bucharest, RO)

When Popeye had shortness of breath.

P712

U. Kocabas, U.O. Turk (Istanbul, TR)

Imaging: Coronary Artery Diseases

An incidental finding of a completely thrombosed left ventricular pseudoaneurysm: what is the next step?

P713

S. Istratoaie, A. Iliescu, S. Manole, R. Beyer, D. Tudoreanu, D. Mateas, G. Simu, R. Rancea (Cluj Napoca, RO)

Imaging: Acute Coronary Syndromes

Contradicting the most basic tenet of black holes: light can, indeed, escape.

P714

J.P. Sousa, J. Ribeiro, L. Puga, C. Lourenco, R. Teixeira, L. Goncalves (Coimbra, PT)

When "wait and see" is the best option: a case report of a spontaneous coronary artery dissection. P715
A. Castelo, T. Silva, R. Ramos, A. Fiarresga, R. Moreira, T. Mano, V. Ferreira, P. Bras, R. Ferreira (Lisbon, PT)

Acute chest pain and new onset severe and asymmetric functional tricuspid regurgitation: What is going on? P716
G. Ramirez-Escudero Ugalde, N. Garcia Ibarrondo, A. Manzanal Rey, M. Codina Prat, L. Ruiz Gomez, A. Elorriaga Madariaga, R. Candina Urizar, K. Ugedo Alzaga, A. Lambarri Izaguirre, M. Castellanos Alcalde, G. Aurkekoetxea Bajeneta, I. Bravo Martinez, P. Mendoza Cuartero, C. Asla Ormaza, J.M. Ormaetxe Merodio (Bilbao, ES)

Imaging: Pericardial Disease

Isolated left ventricular tamponade in a patient with severe pulmonary hypertension due to chronic thromboembolisms: a case report. P717
O. Vinter, M. Trbusic, M. Menegoni (Zagreb and Slavonski Brod, HR)

Imaging: Congenital Heart Disease

Unexpected finding during follow up for a suspected arrhythmogenic right ventricular cardiomyopathy (ARVC). P718
M. Castellanos Alcalde, N. Garcia Ibarrondo, G. Ramirez-Escudero, R. Candina Urizar, A. Lanbarri Izaguirre, K. Ugedo Alzaga, L. Ruiz Gomez, A. Manzanal Rey, M. Codina Prat, G. Aurkekoetxea Bajeneta, I. Bravo Martinez, P. Mendoza Cuartero, C. Asla Ormaza, J. Ormaetxe Merodio (Bilbao, ES)

Complex cyanotic congenital heart disease and its complications - it is never too late to treat. P719
D.N. Radu, S. Stoica, D.M. Dorobantu, G. Olaru-Lego, A.S. Buta, P. Platon, A. Iosifescu, I.M. Coman, C. Gingham, B.A. Popescu, R. Enache (Bucharest, RO; Bristol, GB)

Antenatal and postnatal echocardiographic diagnosis of Truncus Arteriosus III (TAIII) complicated by spontaneous PDA (patent ductus arteriosus) closure and LPA (left pulmonary artery) disconnection. P720
N. Alabdulkarim, A.T.I.F. Asahari, A.M. Alotay, S.H.E.R.I.F. Thabet, T.U.R.K.I. Alqahtani (Riyadh, SA)

Unrepaired complex severe aortic coarctation determining restrictive cardiomyopathy with pulmonary hypertension in adulthood. P722
F. Graziani, E. Panaioli, R. Lillo, A.B. Delogu, G. Perri, M. Grandinetti, F. Burzotta, P. Cialdella, C. Lanzillo, M. Massetti, F. Crea (Rome and Roma, IT)

Imaging: Aortic Disease

A dissecting thoracic aortic aneurysm presenting with mild symptoms in a young woman. P723
K. Bardos, R. Tomoaia, R. Mada, R. Beyer, D. Gurzau (Cluj Napoca, RO)

The mysteries of sinus of Valsalva. P724
C. Costa Dias, V. Enes, C. Santos, M. Barbosa, L. Silva, C. Teixeira, R. Lima, C. Mateus (Viana do Castelo, PT)

An unexpected direction: a case report of a double aortic arch in an asymptomatic woman in adulthood. P725
I. Campos, C. Vieira, N. Salome, V.H. Pereira, A. Costeira Pereira, N. Bettencourt, C. Costa Oliveira, C. Marques Pires, P. Medeiros, R. Flores, F. Mane, J. Marques (Braga, PT)

Cross-Modality and Multi-Modality Imaging, Other

Cardiac amyloidosis: unmasking the simulator. P726
J.D. Sanchez Vega, M. Pascual Izco, J. Ramos Jimenez, G.L. Alonso Salinas, A. Carvelli, J.J. Jimenez Nacher, J.L. Moya Mur, A. Garcia, R. Hinojar Baydes, A. Gonzalez, J.L. Zamorano, C. FernandezGolfín (Madrid, ES)

Unexpected ventricular aneurysm: further ischemic aetiology. P727
J.M. Vieitez Florez, R. Hinojar, M. Pascual, J. Ramos, J.J. Jimenez Nacher, D. Sanchez, A. Carvelli, A. Esteban, D. Kristo, J.L. Moya, M. Abellas, A. Lorente, J.L. Zamorano, C. FernandezGolfín (Madrid, ES)

POSTERS SESSIONS

Left main coronary artery thrombus found in a teenager with Kawasaki disease following cardiac arrest. <i>H. Roque, D. Monteiro De Sousa, M. Bowes (Manchester, GB)</i>	P728
A shocking tumor. <i>A. Lorente Ros, M. Pascual Izco, R. Hinojar Baydes, A. Carvelli, J.M. Vieitez Florez, M. Abellas Sequeiros, J. Pinacho, M. Navarro, S. Fernandez Santos, G. Alonso Salinas, S. Hernandez, E. Gonzalez Ferrer, J.J. Jimenez Nacher, J.L. Zamorano Gomez, C. Fernandez Golfín (Madrid, ES)</i>	P729
Isolated cardiac metastasis in a patient with hepatocellular carcinoma after successful resection of the primary tumor. <i>A. Soldatova, Y.Z. Ali, J.R. Young, L.G. Sinak, W. Sanchez, G. Lin (Tyumen, RU; Rochester, US)</i>	P730
When cardiac imaging saves the day - a rare cause of embolic stroke. <i>P. Demetriades, V. Ahluwalia, L. Speke, L. Wilson, P. Khan (Coventry, GB)</i>	P731
The PET that saved the day - unmasking native bicuspid aortic valve infective endocarditis (BAV IE) due to cardiac device-related (CDR) IE masquerading as recurrent myopericarditis. <i>A. Chong, R. Reyaldén, C. Cole, G. Kaye, P. Law, J. Thoreau, S. Wahi (Brisbane, AU)</i>	P732

08:30 - 12:30

POSTER SESSION

POSTER AREA

Poster session 2

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From 10:00 to 11:00: Meet the presenters by their poster.

Echocardiography: Technology

Utilizing mathematical equations in the fluid dynamic to assess the best quantification of blood fluid formations around the mitral valve.

P733

S. Ranjbar, M. Karvandi (Tehran, IR)

Feasibility and accuracy of the new automated software dynamic heart model in an unselected population.

P734

L. Manfredonia, L. Fusini, M. Muratori, G. Tamborini, P. Gripari, V. Mantegazza, V. Volpato, G. Italiano, A. Lombardo, F. Crea, M. Pepi (Rome and Milan, IT)

Septal curvature a - novel, semia-utomated parameter to aid in recognition of basal septal hypertrophy in arterial hypertension.

P735

F. Loncaric, M. Marciniak, J.F. Fernandes, A. Gilbert, L. Nunno, M. Mimbreno, L. Tirapu, L. Sanchis, A. Doltra, D. Fabijanovic, M. Cikes, P. Lamata, B. Bijnens, M. Sitges (Barcelona, ES; London, GB; Oslo, NO; Zagreb, HR)

Feasibility and accuracy of real-time automatic quantification of left ventricular ejection fraction by hand-held ultrasound device.

P736

*A. Hjorth-Hansen, M.S. Magelssen, G.N. Anderssen, T. Graven, J.O. Kleinau, O.C. Mjølstad, K. Skjetne, H. Dalen (Levanger and Trondheim, NO)***Echocardiography: Systolic and Diastolic Function**

Left ventricular hemodynamic forces: towards establishing reference values for healthy adults.

P737

F. Capuano, R. Cocchia, F. Ferrara, S. Lanero, V. Russo, B. Ranieri, C. Contaldi, C. Sepe, G. Mirto, G. Pedrizzetti, E. Bossone (Naples, Salerno and Trieste, IT)

Association of galectin-3 and soluble ST2, and their changes, with echocardiographic parameters and development of heart failure after ST-segment elevation myocardial infarction.

P738

A. Tyminska, A. Kaplon-Cieslicka, K. Ozieranski, M. Budnik, A. Wancerz, P. Sypien, M. Peller, P. Balsam, G. Opolski, K.J. Filipiak (Warsaw, PL)

The effect of atrial fibrillation in right heart chambers in patients without structural heart disease.

P739

E. Venieri, E. Repasos, Z. Tsoumani, A. Katsianis, N. Zografos, S. Tzoumanidis, I. Paraskevidis (Athens, GR)

Right ventricular function evaluated by conventional echocardiography and strain imaging: study in young adults born preterm with and without lung disease.

P740

V. Bolander, E. Maret, P. Um Bergstrom, M. Skold, M.J. Eriksson (Stockholm, SE)

The role of oxidative stress and inflammation for stress induced right ventricular diastolic dysfunction in nonsevere chronic obstructive pulmonary disease patients.

P742

Z. Cherneva, V.L. Lozanov, P.S. Sugareva, R.C.H. Cherneva (Sofia, BG)

Right ventricular function is important for exercise capacity in patients at risk of heart failure.

P743

S. Kikuchi, S. Kitada, K. Wakami, T. Goto, T. Sugiura, Y. Seo, N. Ohte (Nagoya, JP)

The main influencing factors of cardiac adaptation effecting the diastolic and right ventricular function in peripubertic athletes.

P744

D. Szabo, A. Horanyi, D. Nagy, C.S. Melczer, P. Acs, A. Cziraki, Z.S. Sarszegi (Pecs and Pécs, HU)

Prevalence of diastolic dysfunction in elderly people.

P745

E. Amao Ruiz, J.C. Martin Escudero (Tarragona and Valladolid, ES)

- Assesment of echocardiographic parameters of amyloid light chain cardiac amyloidosis and response to CYBOR D (cyclophosphamide + bortezomib + dexamethasone regimen) - a single center tertia. P746
D. Reddy (Kochi, IN)
- Echocardiographic evaluation of haemoglobinopathies patients and their correlation with haematologic determinants. P747
T. Branco Mano, L. Moura Branco, S. Aguiar Rosa, A. Agapito, A.T. Timoteo, A. Galrinho, P. Rio, A. Leal, F. Gameiro, M. Coutinho Cruz, J. Ferreira Reis, R. Cruz Ferreira (Lisbon, PT)
- Echocardiography: Valve Disease**
- Three-year echocardiographic outcomes in MitraClip patients with chronic kidney disease. P748
A. Tavernese, V. Cammalleri, A. Sanseviero, P. De Vico, S. Muscoli, B. Cuzzola, G. Uccello, A. Mauceri, M. Stelitano, R. Mollace, M. Macrini, F. Romeo (Rome, IT)
- Echocardiographic risk factors of functional ischemic mitral regurgitation in patients with first acute myocardial infarction. P749
J. Kochanowski, R. Piatkowski, P. Scislo, M. Budnik, M. Marchel, G. Opolski (Warsaw, PL)
- Dynamics of tricuspid regurgitation after right ventricular lead implantation. P750
M. Haydar, E. Azzam, N. Samniah, A. SharifRasslan, I. Dobrecky Mery, D. Sharif (Haifa, IL)
- Mitral regurgitation in patients with severe aortic stenosis: role of valvular calcification in the persistence of mitral regurgitation after aortic valve replacement. P752
A. Squeri, A. Ferri, S. Calvi, A. Albertini, S. Censi, R. Conti, A. Barbieri (Cotignola and Ferrara, IT)
- Impact of transcatheter aortic valve implantation on concomitant mitral regurgitation in patients with severe aortic stenosis. P753
M. Lembo, R. Sorrentino, C. Santoro, R. Esposito, M. Scalamogna, M. Avvedimento, F. Magliulo, A. Franzone, P. Cirillo, G. Esposito, M. Galderisi (Naples, IT)
- Severe aortic stenosis with preserved ejection prognostic differences according to flow status and gradient fraction: a Spanish multicentre study. P754
L. Galian-Gay, R.A. Escalona Silva, E. Ferrer-Sistach, C. Mitroi, S. Mingo, D. Saura, B. Vidal, S. Moral, F. Calvo, V. Sanchez-Sanchez, A. Gonzalez, G. Guzman, M. Noris Mora, M.A. Arnau Vives, A. Evangelista (Barcelona, Madrid, Murcia, Girona, Vigo, Palma de Mallorca and Valencia, ES)
- Aortic valve area calculation by 3D transesophageal echocardiography: new insights in severity grading of aortic stenosis. P755
A. Beneduce, C. Capogrosso, S. Stella, F. Ancona, G. Ingallina, G. Falasconi, L. Pannone, M. Ancona, M. Montorfano, E. Agricola (Milan, IT)
- Paradoxical restricted motion in diastole associated to mitral valve prolapse/dystrophy: a frequent finding. P756
T. Le Tourneau, C. Cueff, M. Marrec, N. Piriou, R. Capoulade, S. Le Scouarnec, J. Merot, J.J. Schott (Nantes, FR)
- Left atrial contractile function improves shortly after transcatheter aortic valve replacement. A speckle tracking echocardiography study. P757
A. Calin, D. Cadil, C. Parasca, A. Mateescu, M. Rosca, C.C. Beladan, R. Enache, C. Ginghina, D. Deleanu, O. Chioncel, V. Iliescu, B.A. Popescu (Bucharest, RO)
- Should ECHO measurements be indexed to ideal BSA or actual BSA? P758
M. Cases, T. Zhu, U. Jurt, D. Brouillard, M. Matangi (Kingston, CA)
- Stress echocardiography testing of a novel trans annular mitral bridge implantation for mitral regurgitation. P760
M. Benesova, V.A. Subramanian, S. Cerny (Prague, CZ; New York, US)
- Clinical manifestation of bicuspid aortic valve in single center registry. P761
M. Nowak, J. Marlega, A. Strozzyk, R. Nowak, R. Galaska, M. Gruchala, M. Fijalkowski (Gdansk, PL)
- Preserved mitral apparatus dynamics predict the improvement of acute ischemic mitral regurgitation: fourdimensional quantitative echocardiographic study. P762
T. Kimura, N. Watanabe, S. Nishino, N. Kuriyama, K. Ashikaga, K. Nishihira, M. Furugen, Y. Shibata (Miyazaki, JP)

Asymptomatic severe organic mitral regurgitation: Does the anatomic substrate affect the functional response to supine ergometry?

P763

I. Armenis, M. Kontonika, M. Marinou, A. Motsi, G. Athanassopoulos (Piraeus Greece, GR)

Right ventricular basal diameter, but not volume, can predict severe tricuspid regurgitation.

P764

M. Previtero, A. C. Guta, R. C. Ochoa-Jimenez, C. Palermo, D. Bottigliengo, S. Figliozzi, A. Baritussio, A. Cecchetto, P. Aruta, S. Illiceto, L. P. Badano, D. Muraru (Padua and Milan, IT; Bucharest, RO; New York, US)

Echocardiography: Masses and Sources of Emboli

Does detection of thrombus in left atrial appendage increase risk of ischemic stroke and mortality?

P765

E. Kagawa, M. Kato, N. Oda, E. Kunita, M. Nagai, H. Shiota, K. Dote (Hiroshima, JP)

Eligibility for CLOSE and REDUCE trials of real world patients with Transient Ischemic Attack (TIA) or Acute Ischemic Stroke (AIS) and Patent Foramen Ovale (PFO).

P766

M. Beringuilho, D. Faria, A. Freitas, F. Bernardo, A. Rego, S. Machado, A. Nogueira Pinto (Amadora, PT)

Imagiologic features and Prevalence of Cardiac Lesions detected in Transesophageal Echocardiography.

P767

I. Pereira Oliveira, A. Neto, D. Seabra, I. Cruz, G. Abreu, A. Pereira, J. Azevedo, P. Pinto (Penafiel, PT)

Doppler Echocardiography

Potential utility of fully automated Doppler flow velocity tracing software in patients with atrial fibrillation.

P768

Y. Nabeshima, T. Kitano, K. Otani, M. Takeuchi (Kitakyushu, JP)

Early regional remodeling could possibly be an adaptive stage to increased workload in hypertensive patients.

P769

F. Yalcin, N. Kucukler, F. Akgul, C. Topaloglu, E. Seyfeli, C. Erol (Antioch and Ankara, TR)

Transesophageal Echocardiography

Does intraoperative transesophageal match postoperative echocardiography in mitral valve surgery?

P770

P. Alves, V. Marinho, C. Branco, A.R. Ramalho, M.J. Maldonado, G. Coutinho, D. Prieto, L. Goncalves, P. Antunes (Coimbra, PT)

3D versus 2D transesophageal echocardiography in the detection of thoracic aorta atherosclerosis stage and prediction of coronary atherosclerosis.

P771

A. Vrublevsky, A. Boshchenko, Y.U. Bogdanov (Tomsk, RU)

Percutaneous transcatheter patent foramen ovale closure: does size really matter?

P772

M.F. Ramis Barcelo, C. Mas Llado, A. Rodriguez, I. Valadron, M. Noris, J.F. Forteza, P. Pericas, L. Pasamar, R. Gonzalez, V. Peral (Palma de Mallorca, ES)

Tissue Doppler, Speckle Tracking and Strain Imaging

Can strain imaging predict viability in ST segment elevation myocardial infarction patient.

P773

F. Mghaieth Zghal, S. Habboubi, S. Boudiche, M. Ben Halima, B. Rekik, A. Farhati, S. Ouali, M.S. Mourali (Tunis, TN)

Utility of global longitudinal strain to predict post-operative outcomes in non-cardiac surgery.

P774

C.J. Park, L.S. Tan, P. Huang, P.J. Tan, J.H.J. See (Singapore, SG)

Assessment of left ventricular function in patients with atrial fibrillation using real time triplane speckle tracking in comparison with 2D speckle tracking.

P775

H.A.S.A.N. Ali Al-Farhan, T. A. Sulaiman (Baghdad, IQ)

Stress echocardiography and speckle tracking analysis in patients with heart failure and preserved ejection fraction.

P776

D. Di Lisi, A. Lupo, F. Castellano, C. Nugara, O.F. Triolo, G. Evola, R. Trapani, S. Novo, G. Novo (Palermo, IT)

Effects of chronic cigarette smoking on left ventricle, left atrium and right ventricle strain parameters with 2D speckle tracking echocardiography.	P777
<i>B. Yaman, L. Cerit, H. Kemal Gunsul, E. Acikgoz, S. Usalp, Ü. Yuksek, H. Duygu, O. Akpinar (Nycosia, CY; ankara, TR)</i>	
Evaluation of left auricular and ventricular subclinical function by strain imaging in a cohort of hereditary TTR + amyloidosis.	P778
<i>E.D. Aceves Velazquez, A.M. Guzman Ayon, A. Gonzalez Duarte, Z.Y. Vasquez Ortiz (Mexico City, MX)</i>	
Use of right ventricular strain analysis to detect right ventricle subtle dysfunction in patients with left ventricular ischemic cardiomyopathy.	P779
<i>R. Darweesh, R. Darweesh, W. El Arousy, A. El Aghaa, A. Farrag, D. Youssry, K. Ahmed (Cairo and Alexandria, EG)</i>	
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<i>A. Azul Freitas, J. Ferreira, C. Ferreira, J. Milner, P. Alves, V. Marinho, R. Martins, R. Baptista, E. Jorge, L. Goncalves (Coimbra, PT)</i>	
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Role of serum biomarkers combined with two-dimensional speckle tracking echocardiography for screening of immunotherapy-induced cardiotoxicity.	P781
<i>F. Fusco, G. Scognamiglio, F. Vitiello, M. Gilli, F. Piantedosi, D. Colonna, M. Palma, G. Granata, B. Sarubbi (Naples, IT)</i>	
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<i>J.B. Park, C.S. Park, Y.J. Choi, S. Kwak, I. Moon, I.C. Hwang, J.J. Park, S.P. Lee, J.H. Park, G.Y. Cho (Seoul, Daejeon and Seongnam, KR)</i>	
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<i>G. Palmiero, L. D'urso, E. Melillo, L. Ascione, G. Carlomagno, G. Limongelli, P. Caso (Naples, IT)</i>	
Interstudy reproducibility in the real world of speckle tracking echocardiography in direct comparison with cardiac magnetic resonance.	P787
<i>L. Houard, S. Miltaru, A.C. Pouleur, J.L. Vanoverschelde, B.L. Gerber (Brussels, BE)</i>	
Normal reference value of area strain using three-dimensional speckle-tracking echocardiography: Single center study.	P788
<i>A.M. Anwar, M.H.E.S.H. Hassan, A.S.H.R.A.F. Abdel-Fattah, Y.E.H.I.A. Mohammed, A.L.I. Al Amin, M. T. Mostafa (Jeddah,, SA; cairo, EG)</i>	
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<i>G. Pessoa Amorim, L. Vouga, V. Gama, N. Bettencourt, R. FontesCarvalho, J. Mancio (Porto and Vila Nova de Gaia, PT; Boston, US)</i>	
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<i>T. Deshmukh, P. Geenty, L. Geraghty, D. Emmerig, S. Sivapathan, M. Hogg, P. Brown, S. Panicker, M. Altman, D. Gottlieb, L. Thomas (Sydney, AU)</i>	

Left atrial stiffness as a predictor of cardiac events in patients with heart failure and reduced ejection fraction: the impact of diabetes.

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I. Bytyci, N.R. Pugliese, A. Bajraktari, M. Mazzola, G. Bajraktari, M.Y. Henein, F.L. Dini (Pristina, XK; Pisa, IT; Umea, SE)

Tissue Doppler-derived atrial dyssynchrony predicts new-onset atrial fibrillation during hospitalization for ST-elevation myocardial infarction.

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I.M. Ibrahim, M.T. Hassanin, M.M. El Zaki (Zagazig, EG)

Stress Echocardiography

Is gender a key determinant of exercise tolerance in moderate-to-severe aortic stenosis?

P793

F. Bandera, G. Ghizzardi, V. Milani, S. Boveri, E. Alfonzetti, M. Guazzi (Milan, IT)

Treadmill exercise stress echocardiography in children; our experience.

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FC. Cotrim, I. Joao, J. Guardado, P. Cordeiro, M. A.N.A. Sampaio, A. Marques, H. Cafe, R. Martins, H. Cotrim, L. Baquero (Lisbon, Almada, Riachos, Faro and Costa da Caparica, PT)

Intraventricular fluid patterns during dobutamine stress echo in patients with significant coronary stenosis.

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D. Filomena, S. Cimino, V. Maestrini, V. Petronilli, D. Cantisani, M. Neccia, S. Monosilio, F. Luongo, G. Tonti, G. Pedrizzetti, F. Fedele, L. Agati (Rome, Chieti and Trieste, IT)

Feasibility of exercise stress echocardiography and its correlation with angiographically significant coronary disease.

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A. Chowdhary, R. Nadarajah, C. Hammond, N. Burnett, T. Mwambingu, N. Artis, P. A. Patel (Leeds and Wakefield, GB)

3D Echocardiography

Assessment of right ventricular systolic function with 3D echocardiography following cardiac resynchronization therapy.

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C. Jenei, E. Papp, M. Clemens, Z. Csanadi (Debrecen, HU)

Right atrial phasic function and correlation with right ventricular function in patients with reduced left ventricular ejection fraction and no pulmonary hypertension: insights from 3D echocardiography.

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A.E. Vijliac, D. Muraru, F. Jarjour, K. Kupczynska, C. Palermo, A. Cecchetto, A. Baritussio, P. Aruta, M. Dorobantu, L.P. Badano (Bucharest, RO; Padua, IT)

Echocardiography, Other

The echocardiographic and clinical characteristics of Fabry patients without overt left ventricular hypertrophy but progressing despite on enzyme replacement therapy.

P799

S.Y. Lee, Y.H. Park (Yangsansu, KR)

Effect of Valsalva Maneuver on echocardiographic systolic and diastolic parameters in patients with acute coronary syndrome, a comparison between normal and high ventricular filling pressures.

P800

M.B. Sharifkazemi, E. Mehdinejad, M.Y. Karami (Shiraz, IR)

A virtual reality tool for measurement of 3D echocardiographic images.

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G. Wheeler, S. Deng, K. Pushparajah, J. A. Schnabel, J. M. Simpson, A. Gomez (London, GB)

Delayed time to peak left ventricular outflow tract velocity is associated with symptomatic status in patients with hypertrophic obstructive cardiomyopathy.

P802

R. Huurman, A. Schinkel, D. Bowen, A. Hirsch, M. Michels (Rotterdam, NL)

Myocardial work in acutely decompensated heart failure patients differs between HF_rEF and HF_pEF.

P803

F. Sahiti, C. Morbach, C. Henneges, M. Hanke, R. Ludwig, M. Breunig, V. Cejka, M. Christa, N. Scholz, M. Ertl, M. Kaspar, G. Ertl, S. Frantz, C. Angermann, S. Stoerk (Würzburg and Würzburg, DE)

Heart complication of chikungunya fever: ecocardiographic evaluation of late effects.

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J. M. Del Castillo, E. S. Albuquerque, C. Mazzarollo, K. B. Oliveira, D. C. L. Araujo, A. D. M. Sena, M. P. C. Alencar, D. F. Brindeiro-Filho, C. A. M. Silveira (Recife, BR)

Clinical and echocardiographic characteristics of Polish patients with Eisenmenger Syndrome - results of a snapshot registry.

P805

A. Mamzer-Dachnowska, G. Kopec, B. Kusmierczyk, W. Skowron, E. Mroczek, E. Lewicka, K. Kaminski, D. Karasek, T. Mularek-Kubzdela, K. MiziaStec, M. Kurzyna, Z. Gasior, M. Ciurzynski, E. PlonskaGosciniak, J.D. Kasprzak (Lodz, Krakow, Warsaw, Zabrze, Wroclaw, Gdansk, Bialystok, Bydgoszcz, Poznan, Katowice, Otwock and Szczecin, PL)

Imaging: Cardiac Dimensions, Volume, and Mass

Cavitation phenomenon in mechanical valves: not only microbubbles.

P806

O. Vriz, F. Archi, M. Aldmawi, M. Ahmed, M. Alhumaid, F. Alnahdi, A. Raim, D. Galzerano, M.J. Kinsara, M. Alshahid (Riyadh, SA)

Imaging: Systolic and Diastolic Function

Impact of hydroxyurea in patients Sickle Cell Anemia (SCA) on 6 minute walk distance : echo cardio graphic study.

P807

T. Garadah, A. Jaradat, K. Bin Thani (Manama, BH)

Association between left ventricular diastolic dysfunction and subclinical coronary artery calcification.

P808

M. Mansour, E. Chammas, O. Hamoui, W. Honeine, W. Aljaroudi (Beirut, LB)

Echocardiographic evaluation of patients with diastolic dysfunction of the left ventricle treated with external counterpulsation.

P809

R. Alakbarov, T. Jahangirov, G. Dadashova, S. Kahramanova, F. Ibrahimov (Baku, AZ)

Imaging: Valve Disease

Relationships between aortic valve area and all cause mortality in low-gradient aortic stenosis?

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K. Mohee, M. Heatley, O. Bodger, S. Morris, S. Wilson, J.P. Halcox (Swansea, GB)

More than aortic measurements: evaluation with TTE and angioCT in bicuspid aortic valve yields useful information about valvular compromise.

P811

M.C. Carrero, L. De Stefano, I. Constantin, G. Masson, M. Mezzadra, G. Diaz Babio, M. Ruano, F. Veron, G. Vera Janavel, P. Stutzbach (Buenos Aires, AR)

Imaging: Arrhythmias

A comparative echocardiographic study of young healthy males with early repolarization pattern.

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A. Frigy, I.A. Szabo, L. Kocsis, S.Z. Laszlo, H. Gabor Kelemen, L. Fehervari (Targu Mures, RO)

Association of clinical and echocardiographic signs with atrial fibrillation in coronary artery disease patients: a propensity score matching analysis.

P813

E.I. Yaroslavskaya, V. Kuznetsov, E.A. Gorbatenko (Tyumen, RU)

Independent association of body mass index and left atrial strain in patients with non valvular atrial fibrillation. The NeAfib-Echo registry.

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L. Esposito, R. Sorrentino, V. Capone, C. Santoro, M. Lembo, R. Esposito, F. Lo Iudice, A.M. De Roberto, A. Tufano, M. Galderisi (Naples, IT)

Atrial electromechanical interval in patients with atrial arrhythmias: more for less.

P815

V. Barletta, G. Zucchelli, M. Parollo, V. Della Tommasina, R.L. Borrello, L. Tessandori, R. De Lucia, A. Di Cori, L. Mazzocchetti, M.G. Bongiorno (Pisa, IT)

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- Right Ventricular assessment using Advanced Cardiac Imaging in Mid-Range patients: Keys to detect the risk. P816
M. Pascual Izco, A. Garcia Martin, A. Lorente Ros, R. Hinojar Baydes, G.L. Alonso Salinas, J.M. Vieitez Flores, A. Gonzalez Gomez, J.D. Sanchez Vega, J. Ramos Jimenez, E. Casas Rojo, J.J. Jimenez Nacher, A. Garcia De Vicente, A. Urena, J.L. Zamorano, C. Fernandez-Golfin Loban (Madrid, ES)
- Lung ultrasound in the evaluation of pulmonary congestion in patients with aortic stenosis. P817
I. Szabo, L. Gargani, B. Illes, A. Frigy, A. Varga, G. Agoston (Targu Mures, RO; Pisa, IT; Szeged, HU)
- Association between baseline left ventricular longitudinal strain and follow-up left ventricular ejection fraction in patients with dilated cardiomyopathy. P818
I.H. Jung, Y.S. Byun, J.H. Park (Seoul, KR)
- Outflow graft twist occlusion in the heartmate 3 left ventricular assist system in 7 cases: analysis of potential mechanisms using computed tomography. P819
LN. Solowjowa, D. Zimpfer, M. Mueller, H. Krastev, V. Falk, T.H. Schloeglhofer, C.H. Starck, E. Potapov, I. Netuka (Berlin, DE; Vienna, AT; Prague, CZ)
- Echocardiographic assessment of late-onset right ventricular dysfunction following continuous-flow left ventricular assist device. P820
M. Ruiz Cano, L. Ramazyan, M. Morshuis, M. Schoenbrodt, V. Lauenroth, J. Gummert, L. Paluszkiwicz (Bad Oeynhausen, DE)

Imaging: Coronary Artery Disease

- Influence of periplaque fat on coronary plaque vulnerability, a comparative analysis between atherosclerotic lesions located in the right versus left coronary arteries. P821
N. Raț, D. Opincariu, R. Hodas, M. Ratiu, A. Mester, M. Chitu, I. Kovacs, D. Cernica, Z. Parajko, I. Benedek, T. Benedek (Targu Mures and Tirgu Mures, RO)
- SPECT myocardial imaging for assessment of functional repercussions of the chronic total coronary occlusion. P822
I. Peovska Mitevska, E. Srbinovska, Z. Zimbakov, O. Busletic, O. Kalpak, M. Zdravkovska, M. Bosevski (Skopje, MK)
- Usefulness of myocardial deformation imaging for assessment and long-term prognosis in young patients with Kawasaki disease. P823
R. Marinov, K. Hristova, A. Telcharova, I. Chakarov (Stara Zagora and Sofia, BG)

Imaging: Acute Coronary Syndromes

- Impact of cardiovascular risk factors and treatment strategies on the presence of intramyocardial hemorrhage visualized by magnetic resonance in patients with reperfused infarction. P824
B. Igual Munoz, E. Sanchez Lacuesta, J. Luis Diez Gil, M. Ferre Valverde, F. Ten Morro, V. Miro Palau, M. Ezzitouny, J. Leandro Perez Bosca, R. Paya Serrano (Valencia, ES)

Imaging: Myocardial Disease

- Multi-modality imaging for noninvasive diagnosis of transthyretin amyloid cardiomyopathy-single centre experience. P825
M. Gawor, J. Wnuk, P. Michalek, M. Marczak, A. Teresinska, J. Grzybowski (Warsaw, PL)
- Left atrial contractile function is the main correlate of atrial fibrillation in patients with hypertrophic cardiomyopathy. P827
M. Rosca, L. Mandes, D. Ciuperca, A. Calin, C.C. Beladan, R. Enache, R. Jurcut, C. Baicus, I.M. Coman, C. Ginghina, B.A. Popescu (Bucharest, RO)

Echocardiographic two-dimensional speckle tracking identifies acute myocardial edema and sub-acute fibrosis in pediatric focal myocarditis with normal ejection fraction: comparison with MRI. P828

M. Chinali, A. Franceschini, P. Ciancarella, V. Lisignoli, D. Curione, P. Ciliberti, C. Esposito, A. Del Pasqua, G. Rinelli, A. Secinaro (Rome, IT)

Cardiac uptake level in 99mTc-DPD scintigraphy in ATTR amyloidosis: is there any association with the prognosis? P829

I. Almeida, M. Victor, I. Cruz, A. Marques, C. Gomes, H. Pereira (Barreiro and Almada, PT)

Imaging: Peripheral Vascular Disease

Atherosclerotic disease in apparently healthy population: is the femoral arterial region the starting point? In search of the origin of the story. P830

O.G. Perea, C. Pulmari, J. Morbidoni, J. Ontivero (Buenos Aires, AR)

Anti-inflammatory treatment improves endothelial glycocalyx, peripheral and coronary microcirculatory function and myocardial deformation in inflammatory bowel disease patients. P831

C. Triantafyllou, I. Ikonomidis, M. Nikolaou, G. Bamias, J. Thymis, M. Varoudi, G. Kostelli, E. Kalogeris, I. Papaconstantinou (Athens, GR)

ESCAPE Stroke: first results. P832

S.I. Dumitrescu, A. Milasan, I. Hantulie, M. Dumitrascu, D. Ciobanu, S. Cecoltan, M. Manea, O. Voinea, M. Gurzun, D. Savoiu, R. Popescu, I. Raduta, S. Stanciu, R. Bolohan, C. Molder (Bucharest, RO)

Cross-Modality and Multi-Modality Imaging, Other

Pulmonary arterial hypertension in patients with direct-acting antiviral medications for hepatitis C virus infection - a prospective observational cohort study? P834

D. Schild, G.J. Hellige, R.J. Piso, N. Arenja (Solothurn and Olten, CH)

14:00 - 18:00 POSTER SESSION POSTER AREA

Clinical case poster session 3

All posters are on display from 14:00 to 18:00. From 15:30 to 16:30: Meet the presenters by their poster.

Echocardiography: Valve Disease

Mitral valve abscess complicating infective endocarditis. P835

B. Hammad, Y. Saleh, A. Almaghraby (Alexandria, EG)

Long-term survival of a rare case of pseudoaneurysm of the mitral-aortic intervalvular fibrosa as a complication of endocarditis of a bicuspid aortic valve. P836

M. Al Shehadat, E. Khalifa, S. Mohamed, A. Ghareep, M. Gomaa, M. Alkuwari, S. Helmy (Doha, QA)

Isolated cleft posterior mitral valve leaflet. P837

D. Rodrigo, U. Estandia, C. Perez, P.M. Perez, E. Panera (Baracaldo, ES)

Accessory Mitral Valve Tissue in a 35-year-old female with Significant Left Ventricular Outflow Tract Obstruction and Aortic regurgitation. P838

C. Cataluna, M. Dayag-Cabrera, A. Baysa (Quezon, PH)

The lucky unlucky patient: a case report. P839

S. Habjan, D. Cantisani, I.S. Scarfo, V. Avitabile, G. Semeraro, L. Cicchini, G. La Canna (Rozzano-Milan, IT)

Echocardiography: Masses and Sources of Emboli

A surprising outcome.	P840
<i>R. Rocha, R. Fernandes, J. Carvalho, J. Pais, D. Bras, R. Guerreiro, J. Aguiar (Evora, PT)</i>	
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<i>A. Nalmpantis (Kilkis, GR)</i>	
The sword in the heart.	P842
<i>V. Scheggi, T. Mariani, B. Alterini (Florence, IT)</i>	
A rare cause of chest pain: paradoxical embolism in Ebstein's anomaly.	P843
<i>H.S.A. Abdelgawad, N. Hisham, M. Shehata, M.A. Abdelhay (Alexandria, EG)</i>	
A stroke of bad fortune.	P844
<i>N. Nguyen Nguyen, K. Kadappu (Sydney, AU)</i>	
Deep vein thrombosis, pulmonary embolism and patent foramen ovale: a lethal mix.	P845
<i>A. Vera Sainz, M. Garcia Guimaraes, C. Jimenez, F. De La Cuerda, E. Gonzalez, A. Montes, C. De Rueda, A. Rojas, A. Cecconi, G. Diego, A. Benedicto, L. Dominguez, E. Monguio, L.J. Jimenez Borreguero, F. Alfonso (Madrid, ES)</i>	
Left-atrial ball thrombus complicated by stroke.	P846
<i>W. Zenini, S. Lamrous (Algiers, DZ)</i>	
Echocardiographic imaging in primary cardiac tumour-leiomyosarcoma.	P847
<i>V. Sharnam, D. Husni, J. Ong, F. Ross, Y. Skarparis, S. Myagerimath (Dumfries and Newcastle upon Tyne, GB)</i>	
Left sided cardiac lymphoma.	P848
<i>V. Scheggi, C. Mazzoni (Florence, IT)</i>	
An uncommon reason for transient ischemic attack: nonbacterial thrombotic endocarditis.	P849
<i>G. Babur Guler, A. Kilicgedik, H. Zencirkiran Agus, G. Kahveci (Istanbul, TR)</i>	
Role of echocardiography in a patient with heart failure and multiple cerebral strokes.	P850
<i>M.M. Ansari-Ramandi, H. Yarmohammadi, B. Baghaie, F. Jafarian Moghaddam, B. Fathabadi (Birjand and Tehran, IR)</i>	
Carney's complex: a rare cause of Atrial myxoma.	P851
<i>I. Kasouridis, R. Sargent, S. Ghani (Dartford, GB)</i>	
Cancer-associated thrombotic diathesis: one of your worst nightmares.	P852
<i>J.P. Sousa, C. Neves, E. Jesus, A. Chaves, C. Lourenco, L. Goncalves, G. Sousa (Coimbra, PT)</i>	
Bilateral lower limb ischemia in a healthy young man what if the heart was hiding the etiology.	P853
<i>M. Mouadili, A. Tamdy, B. El Fatmi, S. Elkarimi (Marrakech and Rabat, MA)</i>	
The role of multimodality imaging in revealing a rare cause of persistent ascites.	P854
<i>A.M. Buburuz, D.T.M. Marcu, I. Demsa, G. Tinica, A. Petris, D. Crisu (Iasi, RO)</i>	
Extensive right heart endocarditis in the past.	P855
<i>E. Dobrzanska, M. Tomaszewski, R. Zarczuk, A. Tomaszewski, E. CzekajskaChehab</i>	

Tissue Doppler, Speckle Tracking and Strain Imaging

Validation of strain imaging by Speckle tracking echocardiography in diagnosing coronary artery disease among acute chest pain cases.

P856

S.M. Gomaa (Shebin Elkom, EG)

Diagnostic and prognostic value of 2D Strain in Non ST elevation myocardial infarction patients.

P857

F. Mghaieth Zghal, H. Houas, S. Boudiche, M. Ben Halima, B. Rekik, F. Abdeljelil, S. Ouali, M.S. Murali (Tunis, TN)

Cardiovascular toxicity induced by immunotherapy and tyrosine kinase inhibitors.

P858

D. Calcullo, D. Di Lisi, P. Iacopelli, C. Nugara, E. Bronte, V. Evola, F. Iacono, F. Immordino, M. Lunetta, S. Novo, A. Russo, G. Novo (Palermo, IT)

Stress Echocardiography

Can we connect intraventricular exercise induced gradients to sudden cardiac death?

P859

C. Cotrim, F. Costa, D. Severino, L. Baquero, J. Guardado (Riachos, Leiria and Lisboa, PT)

3D Echocardiography

Multimodality imaging of multiple recurrent myxomas: the role of three dimensional echocardiography..

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H. Al Sergani, B. Alamro, M. Al Admawi, A. Rahim, O. Vriza, I. Elmahi, D. Galzerano, B. Fadel, S. Di Michele, F. Colivicchi (Riyadh, SA; Rome, IT)

Intraoperative and Interventional Echocardiography

Immediate aortic dissection after transcatheter aortic valve replacement (TAVR).

P861

P. Rujirachun, A. Junyavoraluk, D. Jakrapanichakul, N. Wongpraparut, N. Chunhamaneewat, A. Manesai, P. Sakiyalak (Bangkok, TH)

Echocardiography, Other

A conservative strategy for a frequently fatal post-myocardial infarction mechanical complication.

P862

J. Ferreira, A. Freitas, J. Loureiro, M. Beringuillo, D. Faria, D. Roque, C. Morais (Amadora, PT)

Large pericardial effusion two months after transcatheter aortic valve implantation: case report of a post-cardiac injury syndrome.

P863

R. Alves Pinto, M. Martins Carvalho, T. Proenca, P.M. Araujo, A. Nunes, S. Torres, P.D. Grilo, C.X. Resende, P. Dias, R. Almeida, J.C. Silva, M.J. Maciel, F. Macedo (Porto, PT)

Imaging: Systolic and Diastolic Function

Ecstasy s use an unusual cause of dilated cardiomyopathy a case report.

P865

M. Mouadili, M. Elqadi, A. Goulehcn, N. Echarai, M. Elhattaoui (Marrakech, MA)

Imaging: Systolic and Diastolic Function

Mitral aortic intervalvular fibrosa pseudoaneurysm with aortic paravalvular regurgitation in a marfan-like syndrome patient diagnosed with multimodality imaging.

P866

O. Ozden Tok, M. Abdelnabi, A. Almaghraby, G. Bingol, S. Bakan, M. Guden, O. Goktekin (Istanbul, TR; Alexandria, EG)

Mitral stenosis: from mild to severe in less than a year.

P867

K. Ugedo Alzaga, R. Candina, A. Lambarri, M. Castellanos, G. Aurrekoetxea, I. Bravo, M. Codina A. Manzanal, N. Garcia, G. Ramirez-Escudero, L. Ruiz, J.M. Ormaetxe (Bilbao, ES)

Imaging: Heart Failure

Dissecting myocardium.

P868

R. Laymouna, A. Samoka, A. Haggag, A. Almaghraby, Y. Hassan, E. ElSharkawy, A. Zaki (Alexandria, EG)

Effect of transcatheter MitraClip implantation on exercise performance evaluated by CPET.

P869

E. Han, B. Oeztuerk, R. Rettl, J. BerglerKlein, D. Bonderman, R. Badr Eslam (Vienna, AT)

Imaging: Coronary Artery Disease

The role of transthoracic doppler echocardiography in chronic total occlusion diagnosis in a patient with stable angina and cerebral atherosclerosis.

P870

N. Pavlova (Saint Petersburg, RU)

Giant left ventricular (pseudo?)aneurysm complicating anterior myocardial infarction.

P871

R. Menezes Fernandes, T. Mota, P. Azevedo, J. Bispo, J. Guedes, H. Costa, S. Cunha, D. Bento, P. Cordeiro, N. Bettencourt, N. Marques, S. Pereira, A. Nobre, I. Jesus (Faro and Lisbon, PT)

Imaging: Myocardial Disease

A case of transient atrioventricular block: the role of cardiac magnetic resonance imaging.

P872

J. Ferreira, D. Faria, J. Augusto, P. Teixeira, M. Beringuilho, D. Roque, H. Ferreira, C. Morais (Amadora, PT)

A rare and potentially treatable cause of left ventricular hypertrophy.

P873

C.Y. Wong (Hong Kong, HK)

A heart failure with brilliantly preserved ejection fraction.

P874

K.S. Hernandez Jimenez, G. Alonso Salinas, E. Rajjoub AlMahdi, J.D. Sanchez Vega, J. Ramos Jimenez, M. Plaza Martin, J.L. Zamorano Gomez (Madrid, ES)

Imaging: Pericardial Disease

A suspected case of extra-pulmonary tuberculosis presenting as effusive-constrictive pericarditis.

P875

M. Beringuilho, G. Simoa, J. Baltazar, D. Faria, J. Loureiro, A. Freitas (Amadora, PT)

Imaging: Congenital Heart Disease

I may still steal you : huge coronary cameral fistula (non-dominant right coronary artery to right ventricle) in a neonate causing heart failure.

S. Naganur (Chandigarh, IN)

P876

Multiple diverticula of left ventricle - rare atypical picture finded in asymptomatic patient.

M. Rezek, L. Groch, H. Moravcova (Brno, CZ)

P877

3D transoesophageal echocardiography to asses a case of a none-bstein tricuspid valve congenital regurgitation.

I. Sanz Ortega, S. Velasco Del Castillo, J.J. Onaindia Gandarias, I. Rodriguez Sanchez, J. Florido Perena, G. Oria Gonzalez, G. Zugazabeitia Irazabal, A. Salcedo Arruti (Bilbao, ES)

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Imaging: Aortic Disease

Young patient with left ventricular hypertrophy and accidentally discovered aortic dissection: hypertensive heart or hypertrophic cardiomyopathy?

M. Gawor, M. Franaszczyk, E. Kowalik, M. Spiewak, I. Michalowska, J. Grzybowski (Warsaw, PL)

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Heart murmur in a 74-year-old patient with a Dacron aortic graft admitted for sepsis after a laparoscopic left colectomy.

E. Romero Dorta, R. Fernandez Galera, I. Roldan, J. Vizquete, G. Martin, J. Orozco, F. Hornero, J. Bertolin, V. Faga, M.M. Perez-Gil, R. Serrats, R. Callizo, A. Cuevas, A. Sorribes, V. Mora (Valencia, ES)

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Cross-Modality and Multi-Modality Imaging, Other

Hepatocellular carcinoma presenting as a tumor thrombus extending from the inferior vena cava to the right atrium in echocardiography.

M. Beringuilho, A. Baptista, J. Baltazar, D. Faria, P. Magno, A. Freitas, J. Simoes (Amadora, PT)

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Rare case of primary cardiac lymphoma in immunocompetent patient.

T. Iqbal Penwala, A.K. Bin Mohamed Yusof, L.K. Tan (Kuala Lumpur, MY)

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Pulmonary artery stent implantation in an adult with chronic thromboembolic pulmonary stenosis.

E.A. Khalifa, S. Helmy, F. Elallus, S. F. Mohamed, M. Alkuwari (Doha, QA)

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Shoots from the whip: catheter tip migration and tromboembolic complications of ventriculoatrial shunt for hydrocephalus in von Hippel Lindau disease multimodality findings.

P. Gosciniak, B. Larysz, M. Kurzyna (Szczecin and Otwock, PL)

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Two sides of the same mass.

M. Saraiva, A. Moura, N. Craveiro, M.J. Vieira, J. Abecassis, M.L. Pitta, V. Martins (Santarem and Lisbon, PT)

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How many diagnoses can one heart gather?

A. Sturzu, A.M. Balahura, S. Dumitrascu, L. Calmac, A. Alexandrescu, R. Vatasescu, E. Badila, D. Bartos (Bucharest, RO)

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POSTER SESSION

POSTER AREA

Poster session 3

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3D guided CT assessment to define the right pulmonary vein on standard apical 4-chamber view. P889
J. Chan, O.H. Mehta, P. Mottram, I.M. Tay, J. Teng (Melbourne, AU)

Heart transplantation and anti-bodymediated rejection: role of the strain as an early marker of cardiac dysfunction in patients with anti-HLA antibody. P890
B.M. Natali, F.M. Righini, M. Cameli, C. Sciaccaluga, S. Bernazzali, M. Maccherini, D. Menci, F. D'ascenzi, M. Focardi, S. Mondillo (Siena, IT)

Echocardiography: Technology

Association of total Cholesterol levels and cardiac function evaluated by speckle tracking echocardiography in patients with familial hypercholesterolemia. P891
S. Cimino, V. Maestrini, L.I. Birtolo, I. Passarelli, G. Agnes, V. Petronilli, D. Cantisani, G. Di Pietro, D. Filomena, M. Mocci, M. Neccia, R. Colantonio, M. Mancone, F. Fedele, L. Agati (Rome, IT)

Accuracy of right atrial pressure estimation using a multi-parameter approach derived from Inferior vena cava semi-automated edgetracking echocardiography. P892
S. Albani, B. Pinamonti, M. De Scordilli, E. Fabris, A. Perkan, P. Geri, C. Gregori, G. Barbati, L. Mesin, G. Sinagra (Trieste and Turin, IT)

Left ventricular flow energetics predicts worsening heart failure in dilated cardiomyopathy. P893
L. Takahashi, T. Uejima, H. Hayama, J. Cho, T. Chikamori, T. Yamashita (Tokyo, JP)

Echocardiography: Systolic and Diastolic Function

Cardiac structural and functional changes in children with sickle cell anemia: an echocardiographic study. P894
A. Bouslimi, S. Chenik, M. Dghim, H. Mahfoudhi, K. Tamallah, W. Fehri, H. Barakizou, S. Gannouni (Tunis, TN)

Relationship between left ventricular function components and cardiovascular risk factors in asymptomatic individuals. P895
F. Vancheri, M.Y. Henein (Caltanissetta, IT; Umea, SE)

Feasibility and accuracy of echocardiographic estimates of tricuspid annular displacement. P896
Y. Tan, A. Manouras, L.H. Lund, A. Venkateshvaran (Stockholm, SE)

The role of oxidative stress and inflammation for stress induced left ventricular diastolic dysfunction in non-severe chronic obstructive pulmonary disease patients. P897
Z. Cherneva, V.L. Lozanov, P.S. Sugareva, R.C.H. Cherneva (Sofia, BG)

Role and evolution of the right ventricle in heart failure patients treated with cardiac resynchronization therapy delivered by left ventricle pacing alone. P898
S. Iancovici, A. Deaconu, A. Scarlatescu, A. Amza, A. Acostachioaie, C. Iorgulescu, S. Bogdan, A.D. Radu, R. Vatasescu, M. Dorobantu (Bucharest, RO)

Reduced right ventricular longitudinal function in patients with chronic left ventricular disease can be due to left ventricular forward failure and not right ventricular dysfunction. P899
M. Fredholm, S.E. Ricksten, K. Karason, S.E. Bartfay, G. Dellgren, O. BechHanssen (Gothenburg, SE)

The Heart Model: Automated LVEF calculation in the real world.	P900
<i>G. Dhunnoo, A. Mills, E.F. Lloyd, A. Sabra, A. Margulescu, B. Bahlay, J. Etheridge, A. Ionescu (Swansea, GB)</i>	
Left ventricular diastolic and systolic functions are compromised in patients with hypothyroidism.	P901
<i>R. Tafarshiku, M.Y. Henein, V. BerishaMuharremi, I. Bytyci, P. Ibrahim, A. Poniku, G. Bajraktari (Pristina, XK; Umeå, SE)</i>	
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<i>K. Hu, D. Liu, M. Kirch, F. Liebner, C. Scheffold, S. Herrmann, F. Weidemann, B. Lengenfelder, G. Ertl, S. Frantz, P. Nordbeck (Wurzburg, Schweinfurt and Recklinghausen, DE)</i>	
Value of global longitudinal strain (GLS) in the short term prognosis of geriatric patients with asymptomatic severe aortic stenosis.	P905
<i>M. Ramos Sanchez, M. Quezada, A. Garcia, R. Ayala, C. Herrera, F.J. Gomez Pavon, J. Jaramillo, R. Toro (Madrid and Cadiz, ES)</i>	
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<i>J.M. Vieitez Florez, J.M. Monteagudo, P. Mahia, L. Perez, T. Lopez, I. Marco, F. Carrasco, A. Adeba, J.M. De La Hera, R. Hinojar, C. Fernandez-Golfin, J.L. Zamorano (Madrid, Malaga and Oviedo, ES)</i>	
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<i>A.E. Vijiliac, C. Neagu, A. Cherry, S. Onciul, D. Zamfir, R. Onut, M. Stoian, S. Iancovici, M. Dorobantu (Bucharest, RO)</i>	
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<i>H.S.A. Abdelgawad, M. Shehata, M. Abdelnabi, A. Almaghrabi, R. Abayazeed, M.A. Abdelhay (Alexandria, EG)</i>	
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<i>S. Stoebe, K. Kreyer, D. Lavall, U. Laufs, A. Hagendorff (Leipzig, DE)</i>	
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<i>A. Shimokawa, K. Yoshitani, Y. Shimahara, Y. Ohnishi (Suita, JP)</i>	
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<i>M. Amano, C. Izumi, Y.J. Kim, S.J. Park, S.W. Park, H. Tanaka, T. Hozumi, L.H. Ling, C.M. Yu, S. Fukuda, Y. Otsuji, J.K. Song, D.W. Sohn (Osaka, Kobe, Wakayama and Kitakyushu, JP; Seoul, KR; Singapore, SG; Hong Kong, HK)</i>	
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<i>D. Sharif, E. Azzam, A. SharifRasslan, I. Dobrecky Mery (Haifa, IL)</i>	

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Additional value of atrial parameters evaluated by echocardiography on the scales of cardioembolic risk in atrial fibrillation. P917

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R. Menezes Fernandes, T. Mota, J. Bispo, P. Azevedo, J. Guedes, H. Costa, D. Bento, H. Cafe, M. Shamasna, A.P. Fidalgo, I. Jesus (Faro, PT)

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M. Luntungan, A.L.P. Panda (Manado, North Sulawesi, ID)

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D. Molinero, P. Cabeza, N. Hernandez, W. Delgado, E. Silva (Cadiz, ES)

Tissue Doppler, Speckle Tracking and Strain Imaging

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N. Ojrzynska, E. Kowalik, M. Kowalski, A. Klisiewicz, M. Demkow, A. Witkowski, J. Grzybowski (Warsaw, PL)

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C. Kapelios, M. Bonou, D. Basoulis, C. Masoura, E. Athanasiadi, M. Papadopoulou, M. Skouloudi, M. Psychogiou, J. Barbetseas (Athens, GR)

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F. Bandera, G. Ghizzardi, M. Agnifili, S. Pizzocri, S. Boveri, M. Losito, V. Labate, E. Alfonzetti, M. Guazzi (Milan, IT)

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H. Linkova, R. Petr, E. Paskova, V. Kocka, P. Tousek (Prague, CZ)

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T. Onishi, T. Sawada, T. Takaya, A. Shimane, Y. Taniguchi, H. Kawai (Himeji, JP)

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J. Ahn, H.Y. Yu (Gumi and Cheonan, KR)

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N. Drinkovic, N. Drinkovic Jr (Zagreb, HR)

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O. Germanova, A. Germanov (Samara, RU)

Significant differences in atrial structural and functional parameters leading to differing mechanisms of atrial fibrillation in athletes compared to non-athletes.

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- Quantitative methods for assessing contractile reserve in patients with diastolic heart failure. P972
K. Hristova, N. Tselov, S.V. Tsonev, R. Marinov, V. Kostova, T.Z.V. Katova (Sofia, BG)
- Predictive value of galectin-3 for cardiac remodelling in patients with acute heart failure. P973
I.R. Lala, D.A. Darabantiu, D. Lungeanu, L. Pilat, M. Puschita (Arad and Timisoara, RO)
- Sacubitril/valsartan is well tolerated in patients with heart failure and a history of cancer. P974
M.K. Frey, E. Han, H. Arfsten, N. Pavo, M. Huelsmann, M. Gyoengyoesi, J. BerglerKlein (Vienna, AT)
- Echocardiography and nuclear medicine imaging techniques are insufficient for scar detection in patients referred for cardiac resynchronization therapy. P975
C. Kjellstad Larsen, E. Galli, J. Duchenne, J.M. Aalen, C. Stokke, G. Degtiarova, J.G. Fjeld, O. Gheysens, J. Saberniak, E. Kongsgaard, M. Penicka, J.U. Voigt, E. Donal, O.A. Smiseth, E. Hopp (Oslo and Akershus, NO; Rennes, FR; Leuven and Aalst, BE)

Imaging: Coronary Artery Disease

- Can calcium score predict the appropriate treatment for high risk patients? (a 5 years follow up study). P976
S. Stanciu, M. Gurzun, S. Dumitrescu, F. Naftanaila, A. Spanu, D. Cuzino (Bucharest, RO)
- CT phenotype of high-risk atherosclerotic plaques causing an acute coronary syndrome compared to silent vulnerable plaques. P977
R.I. Hodas, D. Opincariu, N. Rat, I. Rodean, M. Chitu, I. Benedek, T. Benedek (Targu Mures, RO)
- Acute myocardial infarction in young women without atherosclerotic disease. P978
F.B. Sozzi, M. Schiavone, E. Gherbesi, G. Malanchini, L. Mircoli, F. Colombo, C. Bonanomi, M. Vicenzi, M. Ciulla, F. Lombardi (Milan, IT)
- Subclinical left ventricular dysfunction and silent myocardial ischemia in asymptomatic middle-aged patients with type 2 diabetes mellitus. P979
A. Kisko, J. Lesko, L. Dernarova, N. Kishko (Presov, SK)

Imaging: Acute Coronary Syndromes

- RV longitudinal dysfunction predicts outcomes in anterior ST elevation myocardial infarction treated by primary PCI. P980
D. Zamfir, S. Onciul, A. Scarlatescu, C. Guzu, A. Pascal, I. Cojocar, M. Stoian, I. Petre, S. Iancovici, V. Bataila, M. Dorobantu (Bucharest, RO)

Imaging: Myocardial Disease

- Correlation between electrocardiographic and imaging data in patients with acute myocarditis: a single centre retrospective analysis. P982
A. Caretta, L.A. Leo, V.L. Paocchi, G.M. Viani, S.A. Schlossbauer, F.F. Faletra (Lugano, CH)
- ATTR cardiac amyloidosis and aortic stenosis: the same physiopathology, different prognosis? P983
I. Almeida, M. Victor, I. Cruz, A. Marques, C. Gomes, H. Pereira (Barreiro and Almada, PT)
- A head-to-head comparison between 2D and 3D segmental strain parameters in hypertrophic cardiomyopathy. P984
E. Pagourelas, O. Mirea, J. Duchenne, S. Unlu, J. Van Cleemput, C.E. Papadopoulos, J. Bogaert, V. Vassilikos, J.U. Voigt (Thessaloniki, GR; Leuven, BE)
- The use of strain analysis in patients under cardiotoxic chemotherapy: possible early detection of cardiotoxicity. P985
C. Ozturk, D. Validyev, U.M. Becher, G. Nickenig, V. Tiyerili (Bonn, DE)

Imaging: Congenital Heart Disease

- Arch anomalies in a form of isolated innominate or subclavian arteries case series, and literature review. P986
M. Mohammed, A. Abdulmajeed, T. Omar, A. Al Akhfash, F. Alhabshan (Riyadh, SA)
- Arch aComprehensive systolic right ventricular longitudinal strain analysis in congenital heart disease patients with different right ventricular loading conditions. P987
A. Van Berendoncks, D.J. Bowen, J. Mcghie, J.A. Cuypers, M. Kauling, J.W. RoosHesselink, A. E. Van Den Bosch (Antwerp, BE; Rotterdam, NL)
- The newly discovered congenital heart disease in grown-up patients: untimely diagnosis or echocardiographic casuistry? P988
A. Legkonogov, L.G. Legkonogova (Simferopol, RU)
- Speckle tracking echocardiography for assessment of baseline myocardial dysfunction and remodelling following tricuspid valve surgery in adults with Ebsteins anomaly. P989
E. Ostenfeld, P. Ricci, F. Fusco, C. Flick, C. West, M.A. Gatzoulis, S.V. BabuNarayan, W. Li (Lund, SE; London, GB)
- Multi-plane echocardiographic analysis of right ventricular function in patients with systemic and subpulmonic physiology. P990
A. Van Berendoncks, D.J. Bowen, J. Mcghie, J. Cuypers, M. Kauling, J.W. RoosHesselink, A. E. Van Den Bosch (Antwerp, BE; Rotterdam, NL)

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Morning Sessions

08:30 - 10:00 MAIN SESSION MOZART

Role of lung ultrasound in acute cardiac care

Chairperson(s): A. Djordjevic-Dikic (Belgrade, RS); E. Picano (Pisa, IT)

- 08:30 › B-lines evaluation in acute cardiac care. 991
I. Simova (Sofia, BG)
- 08:52 › Evaluating pneumothorax, pleural effusions and ARDS with lung. 992
L. Gargani (Pisa, IT)
- 09:15 › Role of lung ultrasound in shock patients. 993
P. Lichtenstein (JuanLesPins, FR)
- 09:37 › Use of lung ultrasound in pulmonary embolism diagnosis. 994
S. Comert (Istanbul, TR)

08:30 - 10:00 SPECIAL SESSION STRAUSS

Artificial intelligence demystified



Chairperson(s): A. Miyazawa (Barnet, GB); T. Pezel (Paris, FR)

- 08:30 › Place of AI in cardiovascular imaging today and tomorrow. 995
A. Fraser (Cardiff, GB)
- 08:52 › Artificial intelligence - Smartphone apps and new technologies. 996
P.P. Sengupta (Morgantown, US)
- 09:15 › Which AI for my heart failure patient? 997
B. Bijmens (Barcelona, ES)
- 09:37 › Artificial intelligence (AI) and echocardiography: a training model using real world data. 998
G. Strange (Sylvania, AU)

08:30 - 10:00 TEACHING COURSE HAYDN

Valvular heart disease 1: tips and pitfalls in aortic valve diseases

Chairperson(s): C. Fernandez-Golfin (Madrid, ES); M.J. Monaghan (London, GB)

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

- 08:30 › Aortic stenosis. 999
M.A. Clavel (Quebec, CA)
- 08:52 › Aortic regurgitation. 990
J. Vanoverschelde (Brussels, BE)
- 09:15 › Primary mitral regurgitation. 991
J. Hung (Boston, US)
- 09:37 › Mitral stenosis. 992
M.L. de Alcantara (Rio De Janeiro, BR)

08:30 - 9:45 CLINICAL IMAGING SHOENBERG

Hypertrophic cardiomyopathy: how to apply the guidelines to optimize patient outcome

Chairperson(s): N. Van De Veire (Gent, BE); S. Schroeder (Goeppingen, DE)

By attending this session the audience will appreciate 1) the application of echocardiography for diagnosis, risk stratification and treatment of HCM. 2) Rational use of contrast echocardiography and the 3) complementary role of other imaging modalities in the light of most updated guidelines and recommendations of ESC and EACVI.

- | | | |
|---------|--|------|
| 08:30 › | Risk stratification.
E. Ozpelit (Izmir, TR) | 1003 |
| 08:48 › | Different faces of echocardiographic left ventricular hypertrophy.
F. Knebel (Berlin, DE) | 1004 |
| 09:07 › | Echo and sudden cardiac death.
H. Soliman Aboumarie (London, GB) | 1005 |
| 09:26 › | Rational use of contrast from diagnosis to treatment.
J.R. Lindner (Portland, US) | 1006 |

08:30 - 10:00 SYMPOSIUM STEINER

Strange masses and emboli



Joint session with the Indian Academy of Echocardiography (IAE)

Chairperson(s): A. Salustri (Doha, QA); S. Govind (Bangalore, IN)

- | | | |
|---------|---|------|
| 08:30 › | Atrial septal aneurysms and atrial pouch.
G. Benfari (Verona, IT) | 1007 |
| 08:42 › | Coronary artery embolism.
K. Yiangou (Nicosia, CY) | 1008 |
| 08:55 › | Calcific masses as a source of embolism.
S. Govind (Bangalore, IN) | 1009 |
| 09:08 › | Non bacterial thrombotic endocarditis.
R. Mehrotra (Tobe Confirmed, IN) | 1010 |
| 09:21 › | Infective endocarditis, septic emboli.
D. Galzerano (Moio Della Civitella, IT) | 1011 |
| 09:34 › | Tumour embolism.
A. Gopal (To Be Confirmed, US) | 1012 |
| 09:47 › | Device embolism.
G. Athanassopoulos (Pireas, GR) | 1013 |

Morning Sessions

08:30 - 10:00 SYMPOSIUM SCHULZ

Dyspnea at Exercise in Heart Failure



Joint session in collaboration with the Heart Failure Association (HFA of the ESC)

Chairperson(s): P. Caso (Naples, IT); To be announced

- 08:30 › Can we image the limiting factors in exercise capacity? 1014
J. Celutkienė (Vilnius, LT)
- 08:52 › Pulmonary pressures at exercise: absolute cut-offs or slopes? 1015
E.A. Jankowska (Wrocław, PL)
- 09:15 › Measuring Left Atrial Pressures at Exercise? 1016
F. Bandera (San Donato Milanese, IT)
- 09:37 › 09:37 Invasive measurements are obsolete? 1017
F.H. Verbrugge (Heusden-Zolder, BE)

08:30 - 10:00 DEBATE SESSION MAHLER

Tea for two in the operating theater

Chairperson(s): R. Hahn (New York, US); M. Swaans (Hedel, NL)

- 08:30 › Percutaneous clip implantation for tricuspid regurgitation - The imager expertise. 1018
E. Donal (Rennes, FR)
- 09:00 › Percutaneous clip implantation for tricuspid regurgitation - The Interventionist expertise. 1019
G. Leurent (Rennes, FR)
- 09:30 › Percutaneous clip implantation for tricuspid regurgitation - The imager and the Interventionist expertise. 1020
G. Leurent (Rennes, FR); E. Donal (Rennes, FR)

08:30 - 10:00 WORKSHOP SCHUBERT 3

Focus on right heart pathology

Workshop on Transoesophageal Echocardiography (TOE)

To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment.

- 08:30 › Presenter: 1021
I. Stankovic (Belgrade, RS)

08:30 - 10:00 WORKSHOP BERG

Focus on Mitraclip

Workshop on Transoesophageal Echocardiography (TOE)

To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment.

- 08:30 › Presenter: 1022
V. Delgado (Leiden, NL)

08:30 - 10:00

RAPID FIRE ABSTRACTS

AGORA

Speckle tracking echocardiography**Chairperson(s): A. Hagendorff (Leipzig, DE); M. Garbi (Cambridge, GB)**

Fast paced and interactive session with key messages of 10 abstracts.

- 08:30 › Panel of experts: 1023
J. Bergler-Klein (Vienna, AT); D. Vinereanu (Bucharest, RO)
- 08:38 › Left ventricle myocardial deformation (strain) pattern in severe aortic valve stenosis. AMY-TAVI study. 1024
M. Bastos Fernandez, D. Lopez Otero, J. Lopez Pais, V. Pubul Nunez, F. Gude Sampedro, C. Neiro Rey, R. Trillo Nouche, A. Martinez Monzonis, J.R. Gonzalez Juanatey (Santiago de Compostela, ES)
- 08:46 › Global strain rate do not reduce biological variability compared to S', and do not normalize for body size. 1025
A. Stoylen, H.E. Molmen, H.E. Dalen (Trondheim and Horten, NO)
- 08:54 › Prognostic implications of global and regional RV strain in patients with heart failure and conduction delays. 1026
A. Janicijevic, I. Stankovic, A. Zivanic, M. Stefanovic, B. Putnikovic, A.N. Neskovic (Belgrade, RS)
- 09:02 › Mechanical dispersion of the left and right ventricle and the correlation with ventricular arrhythmias in hypertrophic cardiomyopathy. 1027
N.M. PopaFotea, M.M. Micheu, M. Dorobantu (Bucharest, RO)
- 09:10 › Early response to a low-dose acubitril/valsartan (ARNI) therapy among stable symptomatic patients with HFrEF. 1028
W. Sacharczuk, R. Dankowski, A. Baszko, A. Sowinska, S. Ozegowski, A. Szyszka (Poznan, PL)
- 09:19 › Anthracycline and trastuzumab-induced subclinical cardiac damage and its prevention in the SAFE trial. Myocardial strain imaging and 3D echo interim analysis data 1029
G. Barletta, L. Livi, F. Martella, I. Desideri, F. Venditti, V. Scotti, G. Pilato, A. Argiro', C. Becherini, C. Bacci, F. Terziani, L. Visani, V. Salvestrini, I. Meattini, M.R. Del Bene (Florence and Bagno a Ripoli, IT)
- 09:27 › Usefulness of novel fully automated 2D speckle tracking software for left ventricular, left atrial, and right ventricular longitudinal strain analysis. 1030
I. Nabeshima, K. Otani, T. Kitano, M. Takeuchi (Kitakyushu, JP)
- 09:35 › Incremental value of left atrial strain for predicting atrial fibrillation in hypertrophic cardiomyopathy. 1031
T. Filali, I. Ghrissi, P. Barsoum, R. Geha, S. Razkall, A. Benameur, F. Walylo (Aulnay sous Bois, FR)
- 09:43 › Evaluation viability in patients with ventricular dysfunction by 2D speckle tracking echocardiography: the impact of low dose dobutamine. A metaanalysis of prospective trials. 1032
H. Ballo, F. Doghman, A. Saraste, J. Knuuti (Turku, FI)
- 09:51 › Prominent longitudinal strain involvement of left ventricular basal segments in native hypertensive patients without clear-cut hypertrophy. 1033
M. Lembo, R. Esposito, C. Santoro, R. Sorrentino, F. Luciano, O. Casciano, L. Fiorillo, L. La Mura, M. Canonico, M. Galderisi (Naples, IT)

10:00 - 11:00 SPECIAL EVENT SHOENBERG

General Assembly

10:00 - 11:00 MEET THE EXPERTS AGORA

Meet the Experts session

Chairperson(s): N. Ajmone Marsan (Leiden, NL); R.O. Jurcut (Bucharest, RO)

10:10 > How to decide the best cardiac imaging in individual patient with HCM. 1034
N. Cardim (Lisbon, PT)

10:24 > Discussion.

10:30 > How to combine the different imaging modalities in HCM. 1035
N. Maroz-Vadalazhskaya (Minsk, BY)

10:50 > Discussion.

10:00 - 11:00 MODERATED POSTERS MODERATED EPOSTERS 1

Imaging: speckle tracking echocardiography

Chairperson(s): L.E. Sade (Ankara, TR); M. Penicka (Aalst, BE)

Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 08:30 - 12:00. Presentation and discussion moderated by the chairpersons take place between 10:00 - 11:00.

Prognostic role of left ventricle longitudinal strain for the prediction of survival after surgical ventricular repair. 1036
O. Nemchyna, N. Solowjowa, M. Dandel, J. Stein, Y. Hrytsyna, J. Knierim, S. Soltani, F. Schoenrath, V. Falk, C. Knosalla (Berlin, DE)

Differences in reverse remodelling between ischemic and non-ischemic left ventricular segments as assessed by myocardial work after sacubitril-valsartan therapy. 1037

A.A. Valentim Goncalves, A. Galrinho, T. Pereira-Da-Silva, L. Moura Branco, P. Rio, A. Teresa Timoteo, J. Abreu, R. Soares, J. Feliciano, R. Ilhao Moreira, R. Cruz Ferreira (Lisbon, PT)

Comparative assessment of phasic left atrial and regional left ventricular strain in patients with cardiac amyloidosis and LV hypertrophy. 1038

A.M. Brand, G. Baldenhofer, D. Frumkin, A. Huebscher, K. Stangl, F. Knebel (Berlin, DE)

Time course of left atrial performance in patients with paroxysmal atrial fibrillation undergoing radio-frequency catheter isolation of pulmonary veins. 1039

A. Katbeh, K. Iliodromitis, T. De Potter, P. Geelen, Z. Balogh, E. Stefanidis, E. Barbato, G. Van Camp, M. Penicka (Aalst, BE)

Unexpected prevalence of subtle systolic and diastolic dysfunction in genotype-positive phenotype-negative relatives of dilated cardiomyopathy patients. 1040

A. Paldino, G. De Angelis, M. Dal Ferro, G. Faganello, A. Porcari, G. Barbati, R. Korcova, P. Gentile, J. Artico, B. Pinamonti, M. Merlo, G. Sinagra (Trieste, IT)

Early detection of biventricular mechanical dysfunction in PLN R14del mutation carriers. 1041

K. Taha, W.P. Te Rijdt, H.A.C.M. De Bruin-Bon, M.J.M. Cramer, F.W. Asselbergs, B.J. Bouma, M.P. Van Den Berg, A.J. Teske (Utrecht, Groningen and Amsterdam, NL)

Assessment of left ventricular systolic function in obstructive sleep apnea with automatic function imaging and its relation with hypoxia. 1042

M.A. Chenyao, J. Sanderson, L. Mi, L. Hu, X. Lei, X. Jie, W. Yongxiang, F. Fang (Beijing, CN)

Association of left ventricular global longitudinal strain with myocardial perfusion evaluated by ¹³N-ammonia positron emission tomography in hemodialysis patients with preserved ejection fraction. 1043

S. Yamabe, R. Ito, T. Sakakibara, A. Yamada, S. Ohshima, Y. Ozaki (Toyoake and Nagoya, JP)

10:00 - 11:00

MODERATED POSTERS

MODERATED EPOSTERS 2

Multi-modality imaging in valvular heart disease**Chairperson(s): B.L.M. Gerber (Woluwe-St.Lambert, BE); R. Vidal-Perez (A Coruna, ES)***Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 08:30 - 12:00.**Presentation and discussion moderated by the chairpersons take place between 10:00 - 11:00.*

Simple echocardiographic scoring in screening for aortic stenosis by emergency physicians in the emergency department. 1044

A. Furukawa, Y. Abe, T. Miyaji, M. Hatakenaka, M. Naito, K. Ageta, S. Takeuchi, A. Morizane, T. Nishida, H. Ito (Kochi, Osaka and Okayama, JP)

T1-mapping and CMR feature tracking in mitral valve prolapse. 1045

M. Guglielmo, L. Fusini, G. Muscogiuri, A. Baggiano, A. Loffreno, F. Baessato, G. Bonalumi, M. Zanobini, F. Alamanni, M. Pepi, G. Pontone (Milan, Varese and Verona, IT)

Prognostic value of cardiac magnetic resonance imaging in mitral valve prolapse. 1046

A.L. Bouttier, A. Jobbe-Duval, C. Cueff, N. Piriou, P. Jaafar, S. Pattier, R. Capoulade, K. WarinFresse, T. Senage, J.M. Serfaty, J.C. Roussel, T. Le Tourneau (Nantes, FR)

Increased interstitial fibrosis in patients with mitral valve prolapse and mitro-annular dysjunction. 1047

A. Pavon, S. Hugelshofer, T. Rutz, P. Pascale, E. Pruvot, O. Muller, J. Schwitter, P. Monney (Lausanne, CH)

Evaluation of mitral annular disjunction in mitral valve prolapse: is echo imaging enough? 1048

V. Mantegazza, L. Fusini, P. Gripari, V. Volpato, G. Italiano, M. Muratori, G. Tamborini, M. Guglielmo, G. Pontone, M. Pepi (Milan, IT)

High single-beat Doppler signals in lowgradient aortic stenosis are associated with higher aortic valve calcium. 1049

E. El-Am, S. Alsidawi, D. Oguz, C. Scott, J. Thaden, S. Pislaru, K. Morant, P. Pellikka, J. Oh, V. Nkomo (Rochester, US)

Normal imaging findings after aortic valve implantation on 18-fluorodeoxyglucose with computed tomography and computed tomography angiography. 1050

A.R. Wahadat, W. Tanis, A. Scholtens, M. Bekker, L. Graven, L.E. Swart, A. Den Harder, M. Lam, L. De Heer, J.W. RoosHesselink, R.P.J. Budde (Rotterdam, The Hague, Amersfoort and Utrecht, NL)

Assessment of asymptomatic severe aortic regurgitation by doppler-derived echo indices: comparison with magnetic resonance quantification. 1051

Z. Hlubocka, H. Linkova, A. Praveckova, A. Polednova, G. Dostalova, M. Blaha, J. Maly, M. Penicka, A. Linhart, R. Kockova (Prague, CZ)

10:10 - 10:55

HOW-TO SESSION

STRAUSS

How to interpret a stress echocardiography**Chairperson(s): K. Hristova (Sofia, BG)***How-to session provides 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.*

10:10 > Presenter: 1052

E. Picano (Pisa, IT)

10:10 - 10:55 TEACHING COURSE SCHUBERT 6

Of heart and valves



Chairperson(s): A. Rossi (Verona, IT); A. Hagendorff (Leipzig, DE)

- 10:10 › How to evaluate the global and regional left systolic function. 1053
I. Stankovic (Belgrade, RS)
- 10:25 › How to evaluate cardiac cavity volumes. 1054
I. Stankovic (Belgrade, RS)
- 10:40 › Valves evaluation. 1055
I. Stankovic (Belgrade, RS)

11:00 - 12:30 MAIN SESSION MOZART

Multi-modality imaging approach to Fabry cardiomyopathy

Chairperson(s): M. Galderisi (Naples, IT); T. Palecek (Prague, CZ)

- 11:00 › Diagnosis and monitoring of enzyme replacement therapy: from ECG to standard echo. 1056
D. Mohty (Limoges Cedex, FR)
- 11:22 › The role of speckle tracking echocardiography for an early diagnosis. 1057
M. Lembo (Naples, IT)
- 11:45 › Is cardiac MRI absolutely needed for diagnosing Fabry cardiomyopathy? 1058
B.L.M. Gerber (Woluwe-St. Lambert, BE)
- 12:07 › Any role for nuclear cardiology techniques? 1059
W. Acampa (Naples, IT)

11:00 - 12:30 DEBATE SESSION STRAUSS

Is multi imaging modalities always required?



Chairperson(s): S. Ederhy (Paris, FR); V. Rigolin (Chicago, US)

This is a mobile app interactive session, Audience will be invited to interact during the presentations by answering questions when prompted by the speakers and can use "Ask" to send their questions directly to the chairpersons.

- 11:00 › Positioning of the topic: Left ventricle assessment requires multi imaging modalities. 1060
V. Rigolin (Chicago, US)
- 11:10 › Left ventricle assessment requires multi imaging modalities - PRO. 1061
M. Dweck (Edinburgh, GB)
- 11:20 › Left ventricle assessment requires multi imaging modalities - CONTRA. 1062
F.A. Flachskampf (Uppsala, SE)
- 11:30 › Rebuttal - Left ventricle assessment requires multi imaging modalities. 1063
M. Dweck (Edinburgh, GB); F.A. Flachskampf (Uppsala, SE)
- 11:36 › Conclusion and take home message. 1064
V. Rigolin (Chicago, US)
- 11:45 › Positioning of the topic: Cardiotoxicity assessment: Multi imaging modalities are always required. 1065
S. Ederhy (Paris, FR)
- 11:55 › Cardiotoxicity assessment: Multi imaging modalities are always required - PRO. 1066
C. Manisty (London, GB)
- 12:05 › Cardiotoxicity assessment: Multi imaging modalities are always required - CONTRA. 1067
M. Scherrer-Crosbie (Philadelphia, US)

Morning Sessions

12:15 ›	Rebuttal – Cardiotoxicity assessment: Multi imaging modalities are always required. <i>M. Scherrer-Crosbie (Philadelphia, US); C. Manisty (London, GB)</i>	1068
12:21 ›	Conclusion and take home message. <i>S. Ederhy (Paris, FR)</i>	1069

11:00 - 12:30 TEACHING COURSE HAYDN

Valvular heart disease 2

Chairperson(s): N. Ajmone Marsan (Leiden, NL); A.M. Iliesiu (Bucharest, RO)

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

11:00 ›	Secondary mitral regurgitation. <i>R.A. Levine (Boston, US)</i>	1070
11:22 ›	Tricuspid regurgitation. <i>L.P. Badano (Padova, IT)</i>	1071
11:45 ›	Standard echo for prosthesis. <i>A. Ionescu (Swansea, GB)</i>	1072
12:07 ›	Native valve and device-related endocarditis. <i>C. Astudillo (Vina Del Mar, CL)</i>	1073

11:00 - 12:30 CLINICAL IMAGING SHOENBERG

Imaging in the intensive care unit

Chairperson(s): A. Salustri (Doha, QA); S. Kaul (Portland, US)

By attending this session the audience will appreciate the pivotal, rational and point of care use of echocardiography for the management of critically ill patients in the light of latest EACVI recommendations.

11:00 ›	The use of FoCUS echo. <i>O.A. Breithardt (Kassel, DE)</i>	1074
11:22 ›	Non invasive approach to hemodynamic monitoring. <i>P. Trambaiolo (Roma, IT)</i>	1075
11:45 ›	Guiding the bedside invasive procedures. <i>A. Hagendorff (Leipzig, DE)</i>	1076
12:07 ›	Echo during and after CPR. <i>J.E. Moller (Odense M, DK)</i>	1077

11:00 - 12:30 SYMPOSIUM STEINER

Stress echo in heart failure: essential for diagnosis and patient

Chairperson(s): E. Picano (Pisa, IT); B.A. Popescu (Bucharest, RO)

11:00 ›	The incremental value of B-lines during stress echo. <i>M.C. Scali (Montepulciano (Siena), IT)</i>	1078
11:22 ›	In HFpEF: more than assessing E/e'.	1079
11:45 ›	In HFrEF: to predict prognosis and response to therapy. <i>J.A. Lowenstein (Buenos Aires, AR)</i>	1080
12:07 ›	In Athlete's Heart: to distinguish the super-fit from the super-sick. <i>A. La Gerche (Melbourne, AU)</i>	1081

Morning Sessions

11:00 - 12:30 SYMPOSIUM SCHULZ

3D: Only fancy images or real clinical tool



Joint session with the Saudi Heart Association (SHA)

Chairperson(s): A. Cohen (Paris Cedex 12, FR); A. Kinsara (Jeddah, SA)

- 11:00 › 3D for myocardial structure and function. 1082
Y. Turkistani (Makkah, SA)
- 11:22 › 3D in Valvular heart disease. 1083
M. Pepi (Milan, IT)
- 11:45 › 3D in intervention. 1084
F.A. Dalak (Riyadh, SA)
- 12:07 › 3D strain: is there an added value? 1085
P. Claus (Leuven, BE)

11:00 - 12:30 SYMPOSIUM MAHLER

TOE in congenital heart disease (CHD)

Chairperson(s): O. Milanese (Padova, IT); J. Simpson (London, GB)

- 11:00 › Appropriate use of TOE in congenital heart disease. 1086
M. Puchalski (Salt Lake City, US)
- 11:22 › Intraoperative TOE pitfalls and problems and how to make decisions. 1087
S. Wright (London, GB)
- 11:45 › TOE for interventional procedures in CHD. 1088
L. Mertens (Toronto, CA)
- 12:07 › 3D TOE: Academic toy or part of routine perioperative care? 1089
S. Kovalova (Brno, CZ)

11:00 - 12:30 WORKSHOP SCHUBERT 3

Focus on left atrial appendage closure

Workshop on Transoesophageal Echocardiography (TOE)

To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment

- 11:00 › Presenter: 1090
M.L. de Alcantara (Rio De Janeiro, BR)

11:00 - 12:30 WORKSHOP BERG

Focus on atrial septal defect closure

Workshop on Transoesophageal Echocardiography (TOE)

To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment

- 11:00 › Presenter: 1091
K. Papadopoulos (Athens, GR)

11:00 - 12:30

CLINICAL CASES

AGORA

Imaging myocardial - Pericardial disease

Chairperson(s): J. Bergler-Klein (Vienna, AT); V. Reskovic Luksic (Zagreb, HR)

Young clinicians will present their cases and experts will be asked to moderate the sessions, facilitate interaction with the audience, prompt discussions, challenge the presenters and the audience. The main objective of the session is to learn from challenging clinical case scenarios.

- | | | |
|---------|---|------|
| 11:00 › | Panel of experts:
M. Garbi (Cambridge, GB); A Ristic (Belgrade, RS) | 1092 |
| 11:08 › | Multi-modality imaging of a rare cause of constrictive physiology: pericardial ring.
N. Thabet, D. Labib, A. Samaan, M. Shaaban, A. Kharabish, A. Elsayy, H. Mahmoud-Elsayed (Aswan and Cairo, EG; Bad Segeberg, DE) | 1093 |
| 11:16 › | Exercise syncope as initial symptom of constrictive pericarditis in a young patient.
P.L. Cepas Guillen, A. Fernandez-Valledor, M. Izquierdo, M. Ramos, S. Prats, A. Doltra, B. Vidal, M. Roque (Barcelona, ES) | 1094 |
| 11:24 › | Effective image-guided medical management in effusive constrictive pericarditis.
A. Montes, A. Cecconi, T. Alvarado, A. Vera, A. Barrios, P. Caballero, M.J. Olivera, C. De Rueda, E. Gonzalez, F. De La Cuesta, C. Jimenez, J. Perich, A. Gamarra, L.J. Jimenez Borreguero, F. Alfonso (Madrid, ES) | 1095 |
| 11:32 › | A rare case of systemic sclerosis with cardiac tamponade and calcific effusive constrictive pericarditis.
S. Akturk, C. Tulunay Kaya, T. Sayin, D. M. Gerede Uludag, C. Erol (Ankara, TR) | 1096 |
| 11:40 › | The boy with the broken heart.
A. Paul (Kochi, IN) | 1097 |
| 11:49 › | Atrial thickening: a surprisingly "gouty" heart.
B. Rocha, G.J. Lopes Da Cunha, P.M. Lopes, M. Saraiva, C. Albuquerque, S. Cristina, G. Proenca, J. Abecasis, M. Trabulo, M. Andrade, S. Ramos, M. Mendes (Lisbon, Santarem and Cascais, PT) | 1098 |
| 11:57 › | Constrictive pericarditis: a challenge in Cardiology.
C. Kairis, C. Stefanidis, B. Saxpekidis, C. Petridis, L. Mosialos, T. Stosic, G. Tsinopoulos, E. Koufou (Drama, Xanthi, Thessaloniki and Serres, GR; Paralimni, CY) | 1099 |
| 12:05 › | When multimodality imaging is needed to understand the etiology of diffuse negative t waves.
A. Giuca, R. Bica, M. Rosca, S. Stanciu, B.A. Popescu, R. Jurcut (Bucharest, RO) | 1100 |
| 12:13 › | Multimodality imaging in the assessment of pericardial malign disease.
M. Codina, G. Ramirez-Escudero Ugalde, A. Manzanal Rey, N. Garcia Ibarrondo, S. Cisneros Carpio, A. Lambarri Izaguirre, R. Candina Urizar, K. Ugedo Alzaga, M. Castellanos Alcalde, M. Rodriguez Martinez, L. Sande Sardina, E. Galve Calvo, M.F. Arcocha Torres, J. Ormaetxe Merodio, L. Ruiz Gomez (Bilbao, ES) | 1101 |
| 12:21 › | Rare association of left ventricular non-compaction and hypertrophic cardiomyopathy.
V.T. Hotta, N.M.S. Monge, M.L.C. Vieira, F. Fernandes, C. Mady (Sao Paulo, BR) | 1102 |

Lunch Time Sessions

12:45 - 13:45

SATELLITE SYMPOSIUM

STEINER

Mitral to tricuspid regurgitation: why the echocardiographer is key in improving patient prognosis

Sponsored by Abbott

Chairperson(s): P. Lancellotti (Liege, BE) - M. Sitges (Barcelona, ES)

Learning objectives: To be confirmed

12:45 ›	Introduction - Mitral to tricuspid regurgitation: why the echocardiographer is key in improving patient prognosis. P. Lancellotti (Liege, BE)	1907
12:50 ›	Time to diagnose - Mitral & triscupid regurgitation. R. Hahn (New York, US)	1908
13:05 ›	Time to treat - Latest evidences on transcatheter therapies. R. Von Bardeleben (Mainz, DE)	1909
13:21 ›	Time to share - 'Early' vs 'late' cases. S. Lafitte (Pessac Cedex, FR)	1910
13:39 ›	Take home message - Mitral to tricuspid regurgitation: why the echocardiographer is key in improving patient prognosis. M. Sitges (Barcelona, ES)	1911

12:45 - 13:45

MODERATED POSTERS

MODERATED EPOSTERS 1

Complex cases and complications in cardiovascular heart disease

Chairperson(s): G. Scognamiglio (Naples, IT); B. Bonello (London, GB)

Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 12:00 - 14:30.

Presentation and discussion moderated by the chairpersons take place between 12:45 - 13:45.

Aortic arch thrombus mimicking coarctation of aorta in a neonate. S. Veerappan, N. Alphonso, A. Gooi (Robina, AU)	1104
Twins with uncertain significant mutations, slightly different cardiomyopathies and different outcomes. S. Blasco Turrion, I. Guillen Rodriguez, A. Moruno Tirado, A. Mendez, I. Valverde Perez (Puerto Real and Seville, ES)	1106
An unusual vegetation on a prosthetic pulmonary valve. F. Fusco, G. Scognamiglio, D. Colonna, M. Palma, G. Granata, M.G. Russo, B. Sarubbi (Naples, IT)	1107
Inferior vena cava diversion into the left atrium after surgical repair of atrial septal defect: a rare case of chronic hypoxemia. V. Vidal Urrutia, P. Garcia Gonzalez, J.L. Perez Bosca, G. Juan Samper, A. Cubillos Arango, F. Ridocci Soriano, J. Gradoli Palmero, J.P. Cardenas Tealdo, S. Sanchez Alvarez, C. Fernandez Diaz, J.M. Simon Machi, J. Vano Bodi, J. Abdala Lizarraga, R. Paya Serrano (Valencia, ES)	1108
Huge aortic aneurysm after surgical repair of coarctation. M.M. De La Torre Carpena, B. Redondo Bermejo, T.M. Perez Sanz, M.A. Acuna Lorenzo, M.I. Revilla Martinez, C. Tapia Ballesteros, M.J. Rollan Gomez (Valladolid, ES)	1109

12:45 - 13:45

MODERATED POSTERS

MODERATED EPOSTERS 2

Echocardiography: masses and sources of emboli

Chairperson(s): G. Bajraktari (Prishtina, XK); N. Maroz-Vadalazhskaya (Minsk, BY)

Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 12:00 - 14:30. Presentation and discussion moderated by the chairpersons take place between 12:45 - 13:45.

- | | |
|--|------|
| Huge floating mass in a folded ascending aortic graft. | 1110 |
| L. Genuardi, M. Manzara, P. Celli, P.G. Pino (Rome, IT) | |
| Atrial thrombi or cardiac tumors? The challenge of multimodality imaging of intracardiac masses. | 1111 |
| M. Castrichini, S. Albani, B. Pinamonti, R. Bussani, M. Belgrano, G. Sinagra (Trieste, IT) | |
| Discovering the origin of a mysterious heart cavity. | 1112 |
| V. Vidal Urrutia, P. Garcia Gonzalez, J.L. Perez Bosca, D. Escribano Alarcon, J.M. Simon Machi, J. Gradoli Palmero, J. Abdala Lizarraga, C. Fernandez Diaz, J. Vano Bodí, S. Sanchez Alvarez, J.P. Cardenas Tealdo, R. Paya Serrano (Valencia, ES) | |
| Primary and secondary malignant cardiac tumors - a 22 year case review. | 1113 |
| P. Garcia Bras, L. Moura Branco, A. Castelo, V. Vaz Ferreira, T. Branco Mano, A. Galrinho, A.T. Timoteo, J. Abreu, E. Pinto, P. Coelho, I. Bravio, R.C. Ferreira (Lisbon, PT) | |
| NSTEMI originated from an insulin injection needle. | 1114 |
| J.H. Kim (Goyang-si, KR) | |
| Ultra-slow low-dose thrombolytic therapy as an option of treatment in intracardiac thrombus: a case report. | 1115 |
| R. Alves Pinto, S. Torres, M. Formigo, C.X. Resende, T. Proenca, J.M. Carvalho, P.D. Grilo, A. Nunes, P.M. Araujo, E. Sousa, A. Neves, L. Coentrao, T. Honrado, M.J. Maciel, F. Macedo (Porto, PT) | |
| Atypical, cardiac location of melanoma. | 1116 |
| T. Zapolski, M.K. Mariusz Kozak, A.S. Agnieszka Styczen, M.K.G. Marta Karas Glodek, A.T. Andrzej Tomaszewski, E.C.C. Elzbieta Czekajska Chehab (Lublin, PL) | |

14:00 - 15:30 MAIN SESSION MOZART

Echocardiographic monitoring in mechanical ventricular support

Chairperson(s): J.D. Thomas (Chicago, US); C. West (London, GB)

- 14:00 › When to consider mechanical support based on echo... 1117
J.E. Moller (Odense M, DK)
- 14:22 › The echocardiographic evaluation of a patient on LVAD/RVAD. 1118
R. Stainback (Houston, US)
- 14:45 › How to evaluate the patient with IABP and Impella. 1119
J. Beitnes (Oslo, NO)
- 15:07 › ECMO: when to start weaning based on echo. 1120
M. Spartera (Oxford, GB)

14:00 - 15:30 SPECIAL SESSION STRAUSS

Multimodality imaging and challenging the heart team



Chairperson(s): G. Bajraktari (Prishtina, XK); A. Hagendorff (Leipzig, DE)

This is a mobile app interactive session, Audience will be invited to interact during the presentations by answering questions when prompted by the speakers and can use «Ask» to send their questions directly to the chairpersons.

- 14:00 › Heart team panel. 1121
F. Maisano (Zurich, CH); A. Berrebi (Issy Les Moulineaux, FR); R. Von Bardeleben (Mainz, DE), C. Selton-Suty (Nancy, FR)
- 14:00 › A case of right ventricular failure and severe secondary tricuspid regurgitation. 1122
E.A. Prihadi (Aartselaar, BE)
- 14:10 › Discussion.
- 14:30 › A difficult case of endocarditis. 1123
P.A. Erba (Pisa, IT)
- 14:40 › Discussion.
- 15:00 › A case of myocardial bridging. 1125
G. Pontone (Milan, IT)
- 15:10 › Discussion.

14:00 - 15:30 TEACHING COURSE HAYDN

Cardiac masses and sources of embolism

Chairperson(s): A. Cohen (Paris Cedex 12, FR); A. Moreo (Milan, IT)

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

- 14:00 › Intracardiac thrombi. 1125
K. Yiangou (Nicosia, CY)
- 14:22 › Valvular and device-related sources of embolism. 1126
S. Mankad (Rochester, US)
- 14:45 › Cardiac tumors. 1127
C. Zito (Messina, IT)
- 15:07 › Vascular sources of embolism. 1128
M. Sprynger (Liege, BE)

14:00 - 15:30 CLINICAL IMAGING SHOENBERG

Paradigm shifts in management of aortic stenosis

Chairperson(s): C. Fernandez-Golfin (Madrid, ES); J. Magne (Limoges, FR)

By attending this session the audience will appreciate what should be envisaged to best approach patients beyond the severity of stenosis, in the light of latest researches.

- 14:00 › Calcification. 1129
M. Dweck (Edinburgh, GB)
- 14:22 › Left Ventricular function. 1130
J. Magne (Limoges, FR)
- 14:45 › Moderate aortic stenosis and Heart failure. 1131
P. Pibarot (Quebec, CA)
- 15:07 › Time to expand indications of TAVI. 1132
V. Delgado (Leiden, NL)

14:00 - 15:30 LATE-BREAKING SCIENCE STEINER

Late Breaking Science

Chairperson(s): M. Pepi (Milan, IT); A. Fraser (Cardiff, GB);

- 14:00 › Prediction of CAD from Contrast and Non-Contrast Stress-Echocardiograms using Artificial Intelligence 1133
G. Woodward (Oxford, GB)
- 14:15 › Discussant - Prediction of CAD from Contrast and Non-Contrast Stress- Echocardiograms using Artificial Intelligence. 1134
R. Senior (London, GB)
- 14:18 › Percutaneous Edge-to-Edge Repair for Tricuspid Regurgitation: Stratification of Outcomes for Patients with Severe or Greater TR. 1135
R. Hahn (New York, US)
- 14:33 › Discussant - Percutaneous Edge-to-Edge Repair for Tricuspid Regurgitation: Stratification of Outcomes with Severe or Greater TR. 1136
J.L. Zamorano Gomez (Madrid, ES)
- 14:36 › Multicentric Atrial Strain COmparison between Two different modalities: the MASCOT HIT study. 1137
M. Cameli (Siena, IT)
- 14:51 › Discussant - MASCOT HIT. 1138
R. Fontes Carvalho (Porto, PT)
- 14:54 › Strain-oriented strategy for guiding cardioprotection initiation of breast cancer patients experiencing cardiac dysfunction. 1139
C. Santoro (Naples, IT)
- 15:09 › Discussant - Strain-oriented strategy for guiding cardioprotection initiation of breast cancer patients experiencing cardiac dysfunction. 1140
N. Ohte (Nagoya, JP)
- 15:12 › ENCORE presentation - The impact of aortic valve replacement on survival in patients with normal flow low gradient severe aortic stenosis: A Propensity-Matched Comparison (Eur Heart J Cardiovasc Imaging. 2019 Oct 1;20(10):10941101. doi: 10.1093/ehjci/jez.) 1141
R. Senior (London, GB)
- 15:27 › Discussant - The impact of aortic valve replacement on survival in patients with normal flow low gradient severe aortic stenosis: A Propensity-Matched Comparison. 1142
M. Vannan (Atlanta, US)

14:00 - 15:30

SYMPOSIUM

SCHULZ

Role of imaging modalities for clinical decision making in pericarditis**Joint session with the Czech Association of Cardiovascular Imaging of the Czech Society of Cardiology****Chairperson(s): M. Imazio (Torino, IT); R. Kockova (Prague, CZ)**

- 14:00 › Echocardiography: acute and recurrent pericarditis with and without tamponade. 1143
M.J. Andrade (Lisbon, PT)
- 14:22 › Echocardiography: chronic constrictive pericarditis. 1144
T. Palecek (Prague, CZ)
- 14:45 › The utility of CMR and CT in pericarditis. 1145
A. Ristic (Belgrade, RS)
- 15:07 › Imaging methods in guiding the treatment of pericarditis. 1146
A. Linhart (Prague, CZ)

14:00 - 15:30

CASE-BASED SESSION

MAHLER

How should I image left ventricular hypertrophy**Chairperson(s): N. Cardim (Lisbon, PT); E. Bossone (Lauro, IT)***This is a mobile app interactive session, Audience will be invited to interact on the arguments presented by answering questions when prompted by the chairpersons. How should I treat, Mobile App - Vote and Ask a Question.*

- 14:00 › A patient with shortness of breath, left ventricular hypertrophy and normal EF - Case presentation. 1147
R. Sorrentino (Pozzuoli, IT)
- 14:15 › How would I image? 1148
A. Calin (Bucharest, RO)
- 14:25 › How I did image? 1149
K. Hristova (Sofia, BG)
- 14:35 › A patient with shortness of breath, left ventricular hypertrophy and normal EF-Discussion. 1150
S. Nagueh (Houston, US)
- 14:45 › A patient with unexpected left ventricular hypertrophy - Case presentation. 1151
N. Ajmone Marsan (Leiden, NL)
- 15:00 › How would I image? 1152
R. Esposito (Frattamaggiore, IT)
- 15:10 › How I did image? 1153
L. Ernande (Paris, FR)
- 15:20 › A patient with unexpected left ventricular hypertrophy - Discussion. 1154
S. Nistri (Altavilla Vicentina, IT)

14:00 - 15:30

WORKSHOP

SCHUBERT 3

Focus on right heart pathology**Workshop on Transoesophageal Echocardiography (TOE)***To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment.*

- 14:00 › Presenter: 1155
H. Soliman Aboumarie (London, GB)

14:00 - 15:30 WORKSHOP BERG

Focus on Mitraclip

Workshop on Transoesophageal Echocardiography (TOE)

To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment.

14:00 > Presenter: 1156
E. Brochet (Paris, FR)

14:00 - 15:30 RAPID FIRE ABSTRACTS AGORA

Outcome in cardiovascular heart disease: the role of imaging

Chairperson(s): To be announced; P. Barker (Durham, US)

Fast paced and interactive session with key messages of 10 abstracts.

14:00 > Panel of experts: 1157
V. Pergola (London, GB); S. Kutty (Omaha, US)

14:08 > Autograft degeneration, clinical outcomes and predictors after 21 years follow up in Ross procedure. 1158
A single center experience.
C. Pericet Rodriguez, L. Pardo Gonzalez, A. Fernandez Ruiz, R. Gonzalez Manzanares, M. Ruiz Ortiz, M. Delgado Ortega, A. Rodriguez Almodovar, L. Carnero Montoro, A. Luque Moreno, M.J. Oneto Fernandez, N. Paredes Hurtado, R. Villalba Montoro, J. Casares Mediavilla, M. Pan Alvarez-Ossorio, D. Mesa Rubio (Cordoba, ES)

14:16 > Right ventricular electromechanical dyssynchrony in relation to right ventricular remodeling, dysfunction and exercise capacity in Ebstein anomaly. 1159
Y. Akazawa, T. Fujioka, A. Kuhn, W. Hui, C. Slorach, C. Roehlig, L. Mertens, M. Vogt, M. Friedberg (Toronto, CA; Munich, DE)

14:24 > Which parameters do correlate better with functional exercise capacity in children with repaired Tetralogy of Fallot? An echo and CMR study. 1160
Di Salvo (London, GB; Padua, IT)

14:32 > Baseline echocardiographic parameters associated with reintervention in children with aortic valve stenosis following balloon aortic valvuloplasty. 1161
K. Papneja, Z. Blatman, I.D. Kawpeng, J. Wheatley, H. Osce, B. Li, C. Manlhiot, C.P.S. Fan, M. Lafreniere-Roula, L.N. Benson, L. Mertens (Toronto, CA)

14:40 > Improved exercise tolerance and cardiac index at mid-term follow up after tricuspid valve surgery of Ebsteins anomaly. 1162
E. Ostenfeld, F. Simard, G. Smith, S. Ghonim, R. Rydman, D. Pennell, M.A. Gatzoulis, W. Li, S.V. BabuNarayan (Lund and Stockholm, SE; London, GB)

14:49 > Diagnostic performance of a new echocardiographic method for coronary arteries abnormalities assessment. 1163
F. Bianco, M. Colaneri, V. Bucciarelli, F.C. Surace, F.V. Iezzi, G. Giusti, M. Primavera, A. Biasi, S. Gallina, M. Pozzi (Chieti and Ancona, IT)

14:57 > Echocardiographic diagnosis and clinical significance of Eustachian valve hyperplasia. 1164
A. Legkonogov (Simferopol, RU)

15:05 > Anomalous origin of the coronary artery arising from the opposite sinus: clinical impact and prognosis. 1165
V. Vallejo Garcia, A.C. Martin Garcia, F. Blanco Fernandez, A. Martin Garcia, J.C. Castro Garay, P.L. Sanchez Fernandez (Salamanca, ES)

15:21 > Atrial strain predicts exercise capacity in patients with the fontan circulation. 1167
J.P. Cordeiro Rato Mesquita Da Silva, D. Martins, S. Cordeiro Mendes, R. Anjos (Lisbon, PT)

15:30 - 16:30

SPECIAL SESSION

AGORA

Hightech corner session 1 - Echocardiography at the digital era**Chairperson(s): E. van der Velde (Leiden, NL); S.Droogmans (Jette, BE)****2019 trends and new technologies in echocardiography.**

15:30 › 5 G and echocardiography: telemedicine and image transmission.

1168

F. De Lange (Amsterdam, NL)

15:45 › Discussion/Q&A.

15:50 › Virtual reality: from teaching to review structural heart disease.

1169

B. Mumm (Unterschleissheim, DE)

16:05 › Discussion/Q&A.

16:10 › High tech echocardiography to address undeserved population: a clinical experience in Africa.

1170

To be announced

16:25 › Discussion/Q&A.

15:30 - 16:30

MODERATED POSTERS

MODERATED ePOSTERS 1

Imaging: coronary artery disease**Chairperson(s): F. Antonini-Canterin (Pordenone, IT); J. Separovic Hanzevacki (Zagreb, HR)***Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 14:30 to 18:00.**Presentation and discussion moderated by the chairpersons take place between 15:30-16:30.*

Predictive value of coronary artery calcium score for myocardial ischaemia in positron emission tomography.

1172

*O.F. Clerc, F. Caobelli, P. Haaf, M.J. Zellweger (Basel, CH)*Additional role of FFR_{ct} and stress CT perfusion in the management of patients with stable chest pain compared to cCTA alone.

1173

*A. Baggiano, M. Guglielmo, G. Muscogiuri, L. Fusini, A. Del Torto, D. Andreini, S. Mushtaq, E. Conte,**A. D. Annoni, A. Formenti, E. Mancini, A. I. Guaricci, A. L. Bartorelli, M. Pepi, G. Pontone (Milan, IT)*

Coronary flow velocity assessment in routine echocardiography predicts adverse outcomes in three-year period in different subgroups.

1174

A. Zagatina, N. Zhuravskaya, O. Guseva, E. Kalinina, Y. Drozdova, D. Yurkin, D. Shmatov (Saint Petersburg, RU)

Comparison of fractional myocardial mass, a vessel-specific myocardial mass at risk, with coronary angiographic scoring systems for predicting myocardial ischemia.

1175

H.Y. Kim, J.H. Choi, K.H. Kim, S.M. Kim (Gwangju and Seoul, KR)

Coronary inflammation by CT peri-coronary fat attenuation in MINOCA and TakoTsubo syndrome.

1176

FN. Gaibazzi, C. Martini, A. Botti, A. Pinazzi, B. Bottazzi, R. Rendina, A.A. Palumbo (Parma, IT)

The additive prognostic value of end-systolic pressure-volume relation by CMR in patients with known or suspected coronary artery disease.

1177

*C. Cavallaro, A. De Luca, A. Meloni, C. Nugara, C. Cappelletto, C. Grigoratos, G. Aquaro, A. Barison,**G. Todiere, G. Novo, G. Di Sciascio, G. Sinagra, A. Pepe (Pisa, Trieste, Palermo and Rome, IT)*

High coronary wall shear strain developed more vulnerable plaque compared to low shear strain: a systematic review and meta-analysis.

1178

A.B. Bajraktari, I.B. Bytyci, S.E. Elezi, M.Y.H. Henein (Umea, SE; Pristina, XK)

Echocardiographic signs of aortic atherosclerosis in combination with clinical parameters for prediction of non-obstructive coronary atherosclerosis in men.

1179

E.I. Yaroslavskaya, V. Kuznetsov, E.A. Gorbatenko (Tyumen, RU)

15:30 - 16:30

MODERATED POSTERS

MODERATED ePOSTERS 2

3D echocardiography: new clinical implications

Chairperson(s): M. Vannan (Atlanta, US); J.D. Kasprzak (Lodz, PL)

Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 14:30 to 18:00. Presentation and discussion moderated by the chairpersons take place between 15:30-16:30.

2D and 3D assessment of the left ventricle volume and ejection fraction in a general population. 1180

F. Ericsson, B. Tayal, K. Hay Kragholm, T. Zaremba, N. Holmark Andersen, R. Mogelvang, A. Hagendorff, P. Soegaard (Aalborg, Hjorring and Copenhagen, DK; Leipzig, DE)

A novel insight into pathophysiology of hypertrophic cardiomyopathy using simultaneous three-dimensional volume-strain loops. 1181

E. Pagourelas, O. Mirea, J. Duchenne, S. Unlu, J. Van Cleemput, C.E. Papadopoulos, J. Bogaert, V. Vassilikos, J.U. Voigt (Thessaloniki, GR; Leuven, BE)

Clinical evidence of the mitral valve leaflet remodeling after st-elevation acute myocardial infarction: longitudinal observation using real-time 3D echocardiography. 1182

S. Nishino, N. Watanabe, T. Kimura, K. Ashikaga, N. Kuriyama, Y. Shibata (Miyazaki, JP)

Three-dimensional echocardiographic parameters for mitral valve quantification: a feasibility and validation study. 1183

E. Tafciu, G. Granata, F. Ancona, S. Stella, C. Capogrosso, G. Ingallina, F. Melillo, A. Castiglioni, M. De Bonis, O. Alfieri, E. Agricola (Milan, IT)

Left atrial volumes by 3-dimensional but not 2-dimensional echocardiography predict cardiac death and events in patients with heart failure with reduced ejection fraction. 1184

A.E. Velcea, A.A. Andronic, R.C. Rimbas, L.M. Luchian, A. Chitroceanu, E. Serban, S. Mihaila-Baldea, D. Vinereanu (Bucharest, RO)

Three-dimensional speckle tracking echocardiography for the global and regional assessment of myocardial deformation in breast cancer patients submitted to anthracyclines. 1185

M. Coutinho Cruz, L. Moura-Branco, G. Portugal, A. Galrinho, M. Mota-Carmo, A.T. Timoteo, J. Abreu, P. Rio, R. Ilhao-Moreira, T. Mendonca, A. Goncalves, T. Mano, S. Oliveira, R. Luz, R. CruzFerreira (Lisbon, PT)

Three-dimensional analysis of right ventricle strain in transplanted hearts and rejection: an ongoing prospective study. 1186

R.C.P.L.D. Costa, A.C.T. Rodrigues, C.H. Fischer, E.B. LiraFilho, C.G. Monaco, T.R. Afonso, M.L.C. Vieira, A.M. Caixeta, S.S. Morhy (Sao Paulo, BR)

Evaluation of left and right ventricular functions with 3D speckle tracking in patients with mitral stenosis. 1187

O. Seckin, S. Unlu, G. Tacoy (Ankara, TR)

15:40 - 16:25

HOW-TO SESSION

STRAUSS

How to perform a complete evaluation of the right ventricle by echocardiography

Chairperson(s): G. Vinco (Verona, IT)

How-to session provides 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.

15:40 > Presenter: 1188

N. Kagiya (Morgantown, US)

15:40 - 16:15 TEACHING COURSE SCHUBERT 6

Around the heart



Chairperson(s): M. Van Der Hoogstraete (Brussels, BE); A. Sozzi (Milan, IT)

- 15:40 › Pericardial evaluation. 1189
L. Gargani (Pisa, IT)
- 15:55 › Aortic evaluation and other great vessels. 1190
L. Gargani (Pisa, IT)
- 16:10 › Lung evaluation. 1191
L. Gargani (Pisa, IT)

16:30 - 18:00 MAIN SESSION MOZART

Cardiovascular Imaging for organ damage in hypertension.

Chairperson(s): R. Fontes Carvalho (Porto, PT); T. Kukulski (Zabrze, PL)

- 16:30 › Standard echocardiography. 1192
D. Vinereanu (Bucharest, RO)
- 16:52 › Added value of speckle tracking. 1193
L. Herbots (Hasselt, BE)
- 17:15 › Role of stress echo. 1194
R. Sicari (Pisa, IT)
- 17:37 › Role of vascular ultrasound. 1195
O. Vriz (San Daniele, IT)

16:30 - 18:00 DEBATE SESSION STRAUSS

POCUS on NICU or PICU



Chairperson(s): A. Seale (Birmingham, GB); A. McBrien (Belfast, GB)

This is a mobile app interactive session, Audience will be invited to interact during the presentations by answering questions when prompted by the speakers and can use "Ask" to send their questions directly to the chairpersons.

- 16:30 › Positioning of the topic: the role of Pocus in neonatal unit. 1196
A. Seale (Birmingham, GB)
- 16:40 › POCUS has an important role on the neonatal unit. 1197
D. Willem (Nijmegen, NL)
- 16:55 › POCUS is dangerous on the neonatal unit. 1198
L. Mertens (Toronto, CA)
- 17:10 › Rebuttal - The role of Pocus in neonatal unit. 1199
D. Willem (Nijmegen, NL); L. Mertens (Toronto, CA)
- 17:15 › Focus on the duct. 1200
T. Bharucha (Southampton, GB)
- 17:37 › Important clues to pathology. 1201
M. Bhat (To Be Confirmed, SE)

16:30 - 18:00 TEACHING COURSE HAYDN

Non-invasive hemodynamic assessment by echocardiography

Chairperson(s): A. N. Neskovic (Belgrade, RS); D. Mele (Cona, IT)

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

- 16:30 › VFluid responsiveness and congestion. 1202
P. Pellicori (Glasgow, GB)
- 16:52 › Left ventricular hemodynamics in heart failure. 1203
T. Marwick (Melbourne, AU)
- 17:15 › Pulmonary pressures and vascular resistance in pulmonary hypertension. 1204
A. Milan (Torino, IT)
- 17:37 › Cardiac tamponade and constrictive pericarditis. 1205
J.K. Oh (Rochester, US)

16:30 - 18:00 CLINICAL IMAGING SHOENBERG

Pulmonary Hypertension

Chairperson(s): E. Bossone (Lauro, IT); M.J. Andrade (Lisbon, PT)

By attending this session the audience will understand the pivotal role of echocardiography to detect and treat patients with pulmonary arterial hypertension and the added value of echo for monitorization of treatment.

- 16:30 › Role of echo in phenotyping PH. 1206
N. Ajmone Marsan (Leiden, NL)
- 16:52 › Role of echocardiography in screening. 1207
B. Mutlu (Istanbul, TR)
- 17:15 › Does echocardiographic monitorization improve outcome targeted therapies? 1208
C. Selton-Suty (Nancy, FR)
- 17:37 › Evolving strategies in the pharmacological treatment of pulmonary hypertension. 1209
I.M. Lang (Vienna, AT)

16:30 - 18:00 SYMPOSIUM VENICE

Left ventricular noncompaction: fiction or real?



Joint session with the Canadian Society of Echocardiography (CSE)

Chairperson(s): H. Leong-Poi (Toronto, CA); X. Zhou (Beijing, CN)

- 16:30 › Left ventricular non-compaction cardiomyopathy (LVNC) - a cryptic cardiomyopathy? 1210
H. Dalen (Trondheim, NO)
- 16:52 › LVNC: physiologic remodeling or cardiomyopathy? 1211
E. Oechslin (Toronto, CA)
- 17:15 › The role of different imaging modalities in differentiating cardiac LVNC from hypertrophic cardiomyopathy. 1212
D. Jassal (Winnipeg, CA)
- 17:37 › LVNC - why we need MRI. 1213
A.M.G. Almeida (Lisbon, PT)

16:30 - 18:00 SYMPOSIUM SCHULZ

Echocardiography during cardiac interventions



Joint session with the Working Group of Echocardiography of the German Cardiac Society

Chairperson(s): J. Mascherbauer (Vienna, AT); F. Knebel (Berlin, DE)

- 16:30 › Guiding mitral valve procedures. 1214
R. Von Bardeleben (Mainz, DE)
- 16:52 › Guiding LAA closure. 1215
A. Tzikas (Thessaloniki, GR)
- 17:15 › Guiding ASD and PFO Closure. 1216
T. ten Cate (Rotterdam, NL)
- 17:37 › Guiding electrophysiology procedures with echo and MRI. 1217
S. Stella (Vimodrone, IT)

16:30 - 18:00 SYMPOSIUM MAHLER

The fantastic 4: the 4 best papers of my journal in 2019

Chairperson(s): M. Pepi (Milan, IT); L. Pierard (Liege, BE)

- 16:30 › Circulation cardiovascular imaging. 1218
R. Gropler (St. Louis, US)
- 16:52 › Journal of the American College of Cardiology imaging. 1219
C. Shekhar (Edina, US)
- 17:15 › Journal of the American Society of Echocardiography. 1220
M.H. Picard (Boston, US)
- 17:37 › European Heart Journal-Cardiovascular Imaging. 1221
G. Maurer (Vienna, AT)

16:30 - 18:00 WORKSHOP SCHUBERT 3

Focus on left atrial appendage closure

Workshop on Transoesophageal Echocardiography (TOE)

To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment.

- 16:30 › Presenter: 1222
A. Bernard (Tours, FR)

16:30 - 18:00 WORKSHOP BERG

Focus on atrial septal defect closure

Workshop on Transoesophageal Echocardiography (TOE)

To provide basic skills in probe manipulation to obtain standard views and knowledge on spatial anatomic relationships by 2D/3D TOE echocardiography using modern training equipment.

- 16:30 › Presenter: 1223
H. Mahmoud-Elsayed (Birmingham, GB)

16:30 - 18:00

RAPID FIRE ABSTRACTS

AGORA

Speckle tracking echocardiography: diagnostic and prognostic aspects**Chairperson(s): C. Zito (Messina, IT); N. Cardim (Lisbon, PT)**

Fast paced and interactive session with key messages of 10 abstracts.

- 16:30 › Panel of experts: 1224
K. Hristova (Sofia, BG); J. Magne (Limoges, FR)
- 16:38 › Diagnostic accuracy of left ventricular diastolic strain imaging by speckle tracking echocardiography in detecting ischemic etiology of acute chest pain. 1225
K. Ishii, E. Hyodo, Y. Seo, T. Ishizu, E. Tada, H. Kihara, M. Daimon, A. Tanaka, T. Akasaka, H. Watanabe, H. Ito, J. Yoshikawa (Osaka, Nishinomiya, Tsukuba, Asahikawa, Tokyo, Wakayama, Urayasu and Okayama, JP)
- 16:46 › Prognostic impact of concomitant cardiac amyloidosis in aortic stenosis patients referred for transcatheter aortic valve implantation. 1226
V. Ferreira, S. Aguiar Rosa, I. Rodrigues, L. Moura Branco, A. Galrinho, P. Rio, L. Patricio, D. Cacula, R. Ramos, T. Mendonca, A. Castelo, P. Garcia Bras, T. Branco Mano, J. Reis, R. Cruz Ferreira (Lisbon, PT)
- 16:54 › Risk stratification of patients with asymptomatic moderate mitral regurgitation: the prognostic value of left atrial strain. 1227
M. Cameli, M.C. Pastore, F.M. Righini, G.E. Mandoli, F. D'ascenzi, M. Lisi, D. Nistor, S. Sparla, V. Curci, C. Di Tommaso, F. Marino, M. Stricagnoli, S. Mondillo (Siena, IT; Targu Mures, RO)
- 17:02 › New predictors of sudden cardiac death in hypertrophic cardiomyopathy. 1228
D.M. Adamczak, A. Rogala, M. Antoniuk, Z. Oko-Sarnowska (Poznan, PL)
- 17:10 › Evaluation of ventricular mechanics in elite female athletes. 1229
A.M.G. Almeida, M.N. Menezes, G. Lima-Silva, T. Guimaraes, A.R. Francisco, R. Placido, C. David, F.J. Pinto (Lisbon, PT)
- 17:19 › Quantitative left atrial function allows optimized prediction of cardiovascular events following myocardial infarction: a cardiovascular magnetic resonance imaging study 1230
J. M. Castillo, T. Boschilia, C. Mazzarollo, D.C.L. Araujo, K.B. Oliveira, J.V. Diniz, E.S. Albuquerque, A.D.M. Sena, M.P.C. Alencar, N. Sabeh-Junior, D. Brindeiro-Filho, C.A.M. Silveira (Recife, BR)
- 17:27 › Left atrial septal and lateral wall strains contain different pressure information: Utility in pulmonary hypertension. 1231
F.H. Khan, K. Inoue, O.S. Andersen, E. Gude, H. Skulstad, O.A. Smiseth, E.W. Remme (Oslo, NO; Ehime, JP)
- 17:35 › Acute myocarditis: prognostic role of speckle tracking echocardiography and cardiac magnetic resonance. 1232
R.L. Trovato, E. La Franca, C. Nugara, D. Di Lisi, A. Zarcone, D. Bellavia, G. Carmina, F. Clemenza, S. Novo, G. Novo (Alcamo (TP) and Palermo, IT)
- 17:43 › Can speckle tracking echocardiography predict outcome in hypoplastic left heart syndrome patients? 1233
N.S. Borrelli, G. Di Salvo, J. Sabatino, A. Ibrahim, M. Avesani, E. Filippini, M. Josen, M. Penco, A. Fraisse, G. Michielon (London, GB; L'Aquila, IT)
- 17:51 › The cardiac isovolumetric contraction time is an independent predictor of cardiovascular morbidity in the general population. 1234
A. Saed Alhakak, R. Mogelvang, G.B. Jensen, G. Gislason, T. Biering-Sorensen (Copenhagen, DK)

18:00 - 19:00

SPECIAL SESSION

STRAUSS

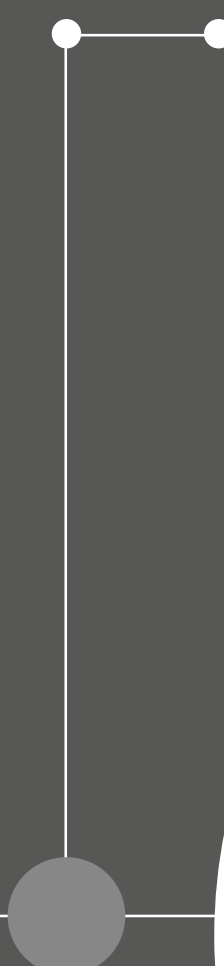
Echo@Jeopardy



Chairperson(s): B. Cosyns (Brussels, BE); P. Lancellotti (Liege, BE)

Cardiovascular imaging quiz where 3 expert teams will compete.

18:00 ›	Master slide Echo@Jeopardy.	1235
18:10 ›	Echo at Jeopardy - Presenters. <i>G.E. Mandoli (Siena, IT); M. Miglioranza (Porto Alegre, BR)</i>	1236
18:20 ›	EACVI Team. <i>L.E. Sade (Ankara, TR); M. Cameli (Siena, IT); C. Beladan (Bucharest, RO); V. Reskovic Luksic (Zagreb, HR)</i>	1237
18:30 ›	Local host Team. <i>J. Bergler-Klein (Vienna, AT); T. Binder (Vienna, AT); G. Goliash (Vienna, AT); G. Maurer (Vienna, AT)</i>	1238
18:40 ›	The rest of the world Team. <i>J. Hung (Boston, US); J.A. Lowenstein (Buenos Aires, AR); J. Cavalcante (Minneapolis, US); H. Dokainish (Burlington, CA)</i>	1239
18:50 ›	Case coordinators. <i>L.E. Sade (Ankara, TR); J. BerglerKlein (Vienna, AT); J. Hung (Boston, US)</i>	1240

A decorative line consisting of a horizontal segment, a vertical segment, and a diagonal segment, with dots at the endpoints and intersections.

• Friday Posters

HIGH SCORE POSTERS:

Look out for these abstracts acknowledged
by the reviewing committee

08:30 - 18:00

POSTER SESSION

POSTER AREA

Heart Imagers of Tomorrow (HIT) Clinical Case Poster session 3

All posters are on display from 08:30 to 18:00.

From 12:45 to 13:45 - Meet the presenters by their poster.

Lunch time HIT Clinical Case Poster hosts - 12:45 - 13:45.

R. Citro (Salerno, IT); T. Podlesnikar (Maribor, SI); E. Agricola (Milano, IT); R. Paakkanen (Helsinki, FI); E. Galli (Rennes, FR); N.E. Hasselberg (Oslo, NO)

P1241

Giant right atrium aneurysm presenting as right heart failure.

F.V. Moniz Mendonca, J.A.S. Sousa, J.M. Monteiro, M.R. Mraquel, M.N. Neto, G.C. Caires, D.F. Freitas (Funchal, PT)

P1242

Nonbacterial thrombotic endocarditis (NBTE) of the aortic valve: incidental finding in hospitalized patients with advanced heart failure.

G.G. Marin, C. Margineanu, D. Penes, C. Maresiu, S. Boianuiu, E. Stoica, R. Radu, E.L. Antohi, O. Chioncel (Bucharest, RO)

P1243

Mitral valve abscess caused by *Klebsiella pneumoniae* in a patient with diabetes melitus.

S. Mekhryakov, A. Kulesh, L. Syromyatnikova (Perm, RU)

P1244

Huge left atrial myxoma masks mitral regurgitation.

M. Toki, A. Hayashida, T. Sakaguchi, S. Aritaka, K. Yoshida (Okayama, JP)

P1245

The Eustachian valve: a structure not so innocent.

T.E. Graca Rodrigues, R. Placido, C. David, S. Goncalves, F.J. Pinto, A.G. Almeida (Lisbon, PT)

P1246

Bilateral endogenous endophthalmitis as the initial presentation of haec prosthetic valve infective endocarditis.

E. Parr, C. Mcaloon, A. Morley-Davis, P. Ridley, S. Duckett (Stoke-on-Trent, GB)

P1247

What are the suspicious echocardiographic features of a malignant cardiac mass?

P. Paolisso, G. Satri, L. Bergamaschi, E.C. D'angelo, M. Coriano, A. Foa, A. Rinaldi, I. Magnani, M. Graziosi, E. Biagini, M. Ferlito, D. Pacini, C. Pizzi, N. Galie, C. Rapezzi (Bologna, IT)

P1248

Straight from the heart.

A. Azul Freitas, J. Ferreira, V. Goncalves, C. Ferreira, J. Milner, L. Bento, S. Martinho, P. Alves, V. Marinho, E. Jorge, L. Goncalves (Coimbra, PT)

P1249

Thymoma invading the right atrium - multimodality imaging and its importance for managing and therapeutics

V. Ferreira, I. Bravio, L. Moura Branco, S. Ranchordas, X. Duarte, C. Pedro, N. Abecasis, J. Neves, A. Castelo, P. Garcia Bras, R. Cruz Ferreira (Lisbon and Carnaxide, PT)

P1250

Percutaneous closure of two mitral perivalvular leaks: when the imaging guides the hands during threatening complications.

D. Cocco, F. Melillo, L. Pannone, A. Ruggio, S. Stella, G. Ingallina, C. Capogrosso, F. Ancona, M. Montorfano, E. Agricola (Milan, IT)

P1251

Left ventricular dysfunction masking symptoms of acute aortic dissection in a postpartum woman with peripartum cardiomyopathy: a case study.

N. Wahjoepramono, M. Hasan, H.S. Prameswari, T.I. Dewi, E. Martanto (Bandung, ID)

P1252

A case report of acromegalic cardiomyopathy with severe left ventricular hypertrophy.

M.D. Kuklina, K.V. Melkozerov, V.Y. Kalashnikov (Moscow, RU)

P1253

Gerbode defect makes sense after 20 years of a prosthetic mitral valve.

M. Y. Mehtap Yeni (Isparta, TR)

P1254

Submitral aneurysm : a rare cause of complete heart block.

R.E.D.D.Y. Damodhar Gouni (Kochi, IN)

P1255

Salvage mitralclip implantation for postmyocardial infarction mitral regurgitation: 2 case reports.

J.P. Dias Ferreira Reis, T. Mano, T. Mendonca, G. Portugal, L. Ferreira, A. Galrinho, A. Fiarresga, D. Cacela, L. Moura Branco, R. Ferreira (Lisbon, PT)

P1256

Additional value of echocardiography in critical patient: a quick and effective tool to improve diagnosis and treatment.	P1257
<i>G. Simeti, A. Collevicchio, M. Previtero, S. Iliceto, L. Badano, D. Muraru (Padua and Milan, IT)</i>	
A rare case of myocardial infarction with non-obstructive coronary arteries occurring after carboxytherapy.	P1258
<i>S. Garibaldi, M. Toselli, F. Preti, A. Menozzi (Parma, IT)</i>	
When it rains, it pours: Late presentation STEMI in a patient with intricate symptomatology due to concomitant acute pancreatitis and pneumonia.	P1259
<i>E. Nicolae, R. Aflorij, A.C. Popescu (Bucharest, RO)</i>	
Chagas disease, a new challenge to the old continent.	P1260
<i>J.P. Dias Ferreira Reis, T. Mano, P. Rio, A. Galrinho, B. Valente, P. Silva Cunha, M. Oliveira, L. Moura Branco, R. Ferreira (Lisbon, PT)</i>	
A heart with red flags.	P1261
<i>C.C. Oliveira, C. Vieira, C. Rodrigues, I. Campos, P. Medeiros, R. Flores, F. Mane, C. Braga, A. Salgado, J. Marques (Braga, PT)</i>	
If anything can go wrong, it will: management of a pericardial effusion in a young patient.	P1262
<i>J.P. Dias Ferreira Reis, T. Mendonca, T. Mano, G. Portugal, P. Silva Cunha, M. Oliveira, A. Galrinho, L. Moura Branco, R. Ferreira (Lisbon, PT)</i>	
Acute cerebrovascular infarct in a young adult with double septal defect and double outlet ventricle.	P1263
<i>K. Nacional, R. Lorilla, K.E. Bagaoisan (Quezon, PH)</i>	
Interrupted aortic arch associated with aortopulmonary window, patent ductus arterious and ventricular septal defect: echo diagnosis with successful single stage repair in LMIC	P1264
<i>H.A. Qadeer, M.M. Muhammad, M.K.M. Malik, D.C. Choudhary, B.H. Hasan, S.M. Mohsin (Karachi, PK; Lancaster PA 17601, US)</i>	
A home for two: a case of a twin pregnancy complicated by twin-to-twin transfusion in a woman with a repaired total anomalous pulmonary venous connection.	P1265
<i>R. Di Cosola, A.M. Colli, C. Bonanomi, M. Schiavone, E. Gherbesi, I. Cusmano, L. Di Odoardo, F. Lombardi (Milan and Vimerate, IT)</i>	
Infectious endocarditis-still a diagnostic dilemma.	P1266
<i>R.A. Mocan, C. Muresan, S. Schiau, L. Jacquemin (Mulhouse, FR)</i>	
Negative baseline diagnostic imaging does not exclude pulmonary embolism in patients with recurrent syncope.	P1267
<i>U. Kocabas, H. Altay, F. Ozkalayci, I. Isiklar, S. Pehlivanoglu (Istanbul, TR)</i>	

08:30 - 18:00

POSTER SESSION

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Heart Imagers of Tomorrow (HIT) Poster session 3

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From 12:45 to 13:45 - Meet the presenters by their poster.

Lunch time Heart Imagers of Tomorrow Clinical Case Poster hosts - 12:45 - 13:45.

E. Donal (Rennes, FR); L.P. Badano (Padova, IT); G. Di Salvo (London, GB); S. Habjan (Ljubljana, SI); V. Van Deursen (Groningen, NL); M. Mansour (Beirut, LB)

Relationship between left ventricle mass index and abdominal obesity in patients with metabolic syndrome hospitalized due to acute coronary syndrome.

A. Furman-Niedziejko, P. Rostoff, I. Palka, M. Golonka, K. Golinska-Grzybala, J. Nessler (Krakow, Cracow and Miechow, PL)

Systolic blood pressure at age 40 is associated with left atrial volumes at age 64.

P. Selmer Roenningen, T. Berge, M.G. Solberg, S. Enger, S. Nygaard, O. Pervez, E.B. Orstad, B.A. Kvisvik, E.N. Aagaard, M.N. Lyngbakken, I. Ariansen, H. Rosjo, K. Steine, A. Tveit (Baerum, Oslo and Akershus, NO)

Systolic dysfunction in obese and extreme obese patients and preliminary results after bariatric surgery.

S. Tsonev, Z. Kuneva, K. Grozdev, A. Gateva, Z. Kamenov, D. Vasilev (Sofia, BG)

Echocardiographic evaluation of left ventricular filling pressure in patients with heart failure with preserved ejection fraction : usefulness of inferior vena cava measurement.

J. Motiejunaite, P. Jourdain, B. Gellen, M.T. Bailly, A.A. Bouchachi, M. Humbert, A. Rouquette, T. Damy, D. Chemla, P. Assayag, E. Berthelot (Paris, Poitiers, Kremlin Bicêtre and Creteil, FR)

Effects of surgical septal myectomy on left ventricular function in patients with hypertrophic obstructive cardiomyopathy.

A. Furugen, H.D. Doi, M.H. Hashimoto, R.K. Koshima, K.M. Mitsube (Sapporo, JP)

Early surgery versus watchful waiting in patients with moderate aortic stenosis and left ventricular systolic dysfunction.

I. Moon, S.P. Lee, M.K. Kim, J.B. Park, H.K. Kim, Y.J. Kim, D.W. Sohn (Seoul, KR)

In-hospital outcome of patients with infective endocarditis: is echocardiography enough?

A. Motoc, J. Kessels, B. Roosens, P. Lacor, N. Van De Veire, J. De Sutter, S. Droogmans, B. Cosyns (Brussels and Ghent, BE)

Excess mortality associated with atrial fibrillation complicating tricuspid regurgitation.

Y. Peri, Y.A.N. Topilsky, B.E.N. Sadeh, I.L.A.N. Merdler, A.R.I.E. Steinvil (Tel Aviv, IL)

Cardiac remodeling in secondary tricuspid regurgitation: should we just look at the tricuspid annulus diameter?

A. Guerin, J. Dreyfus, E. Vabret, T. Le Tourneau, Y. Lavie-Badie, C. Sportouch, J.C. Eicher, S. Marechaux, E. Donal (Rennes, Saint Denis, Nantes, Toulouse, Montpellier, Dijon and Lille, FR)

Budget impact of global longitudinal strain for the early detection of cardiotoxicity incorporation in the brazilian private healthcare system.

M. Miglioranza, R.C. Lucchetta, J.L. Barros Pena, J.M. Castillo, W.P. Oliveira Jr, A.L.C. Almeida, M.V.C. De Resende, B.S. Riveros, M.P. Rosim, M. Medeiros, W.M. Dos Santos, L. Okumura, M.E. Nita, M. Vieira (Porto Alegre and São Paulo, BR)

Echocardiographic assessment of right ventricular systolic function in patients with chronic hepatitis C virus infection.

E. Ahmed, I. Z. Abdel Aziz, A. H. Abdel Moneem, H. H. Hegazy (Ismailia, EG)

Vascular and left ventricular mechanics after surgical correction of aortic coarctation of children.

T. Matanovskaia, U.S. Sinelnikov, E.N. Orekhova (Perm, RU)

Are left atrial and left ventricular strains independent from each other?

G. Malaescu, A. Petrescu, R. Capota, J. Duchenne, M. Cvijic, S. Bezy, J.U. Voigt (Leuven, BE)

Follow-up evaluation of right chambers mechanics is associated with prognosis in group 1 pulmonary arterial hypertension.

F. Biondi, S. Albani, F. Lo Giudice, L. Howard, A. De Luca, V. Tsampasian, E.G.M. Pisanisi, G. Sinagra, D. Stolfo (Trieste and Pisa, IT; London, GB)

The compression ratio of PDA device measured by 3D-TEE. <i>M. Zuo (Chengdu, CN)</i>	P1283
The role of three-dimensional echocardiography in the evaluation of geometry and function of the left ventricle in patients with chronic chagas cardiomyopathy. <i>A. C. L. Barros-Filho, H. T. Moreira, K. S. M. Martins, M. V. Simoes, A. Schmidt, B. C. Maciel, J. A. Marin Neto, M. M. D. Romano (Ribeirao Preto, BR)</i>	P1284
A retrospective clinical and anatomical characteristics study of transaortic extended left ventricular myectomy for obstructive hypertrophic cardiomyopathy. <i>A. Furugen, H.D. Doi, K.M. Mitsube, M.H. Hashimoto, R.K. Koshima (Sapporo, JP)</i>	P1286
Male gender and left atrial volume index predict non valvular atrial fibrillation recurrence. The NeAfi echo registry. <i>R. Sorrentino, V. Capone, L. Esposito, F. Lo Iudice, A.M. De Roberto, M. Lembo, C. Santoro, R. Esposito, M.E. Canonico, M. Galderisi (Naples, IT)</i>	P1288
Echocardiographic prediction of pulmonary arterial capacitance in patients with heart failure with preserved ejection fraction. <i>M. Fontes Oliveira, M. Tropa, R. Costa, A. Dias Frias, S. Cabral, M. Santos, S. Torres, A. Reis (Porto, PT)</i>	P1289
Allometric scaling in human myocardial mass to morphology and flow of coronary artery tree. <i>H.Y. Kim, E.S. Kim, J.H. Choi, K.H. Kim, S.M. Kim (Seoul, KR)</i>	P1290
Are we ready for machine learning in HCM risk stratification? <i>D.M. Adamczak, M. Bednarski, A. Rogala, M. Antoniuk, T. Kiebalo, Z. Oko-Sarnowska (Poznan, PL)</i>	P1291
Prevalence and mechanisms of mitral regurgitation and its association with advanced heart failure in patients with a systemic right ventricle. <i>E. Surkova, T. Segura, K. Dimopoulos, C. Flick, C. West, R. Senior, M. Gatzoulis, W. Li (London, GB)</i>	P1292
Coronary artery flow velocity alteration by transthoracic echo in a group of young adult males. <i>O. Sukhanova, A. Zagatina, N. Zhuravskaya, A.V. Ivanov, D. Shmatov (Saint Petersburg, RU)</i>	P1293
Distribution of infective lesions detected with radiolabeled leucocyte scintigraphy in carriers of various types of cardiac implantable electronic devices. <i>K. Holcman, P. Rubis, B. Malecka, A. Zabek, W. Szot, K. Boczar, A. Lesniak-Sobelga, M. Hlawaty, S. Wisniewska-Smialek, A. Stepień, P. Podolec, M. Kostkiewicz (Kraków and Krakow, PL)</i>	P1294

08:30 - 12:30

POSTER SESSION

POSTER AREA

Clinical case poster session 4

All posters are on display from 08:30 to 12:30.

From 10:00 to 11:00: Meet the presenters by their poster.

Echocardiography: Dimensions, Volumes and Mass

Incidental finding of stent migration detected by echocardiography: a case report.

P1295

*M. Alfarano, V. Presta, L. Genuardi, G.M. Forteleoni, M. Michelangeli, P. Celli, C. Manzara, P.G. Pino (Rome and Sassari, IT)***Echocardiography: Systolic and Diastolic Function**

Effects of contact-to-balloon time on variations of the left ventricle global and regional function during hospitalization of STEMI patients: an echocardiographic study.

P1296

V. Cammalleri, M. Stelitano, S. Muscoli, G. Marsili, W. Manzoni, A. Tavernese, C. Monaco, F. Zanin, G. Uccello, M. Bonanni, A. Mauceri, M. Macrini, A. Di Landro, R. Mollace, F. Romeo (Rome, IT)

Rupture of a Broken Heart: A rare case of acute mitral regurgitation due to papillary muscle rupture complicating Takotsubo cardiomyopathy.

P1297

*D. Chen, D. Abi-Hanna, J. Lambros (Sydney, AU)***Echocardiography: Valve Disease**

A conservative strategy for an uncommon complication of endocarditis.

P1298

J. Ferreira, A. Freitas, S. Gardete, G. Simoa, H. Ferreira, J. Simoes, M. Beringuilho, D. Faria, D. Roque, C. Morais (Amadora, PT)

Right sided infective endocarditis with paradoxical embolization.

P1299

B. Hammad, R. Abayazeed, A. Elbadry, N. Hisham, E. Elsharkawy (Alexandria, EG)

Analysis of clinical and echocardiographic follow-up of patients with heart failure and severe secondary mitral regurgitation 1 year after MitraClip implantation, single centre experience.

P1300

R. Petr, H. Linkova, E. Paskova, F. Bednar, T. Budesinsky, V. Kocka (Prague, CZ)

Opposite outcomes of two equally destructive forms of infective endocarditis.

P1301

R. Carvalho, S. Fernandes, L. Santos, F. Montenegro Sa, J. Guardado, F. Soares, J. Morais (Leiria, PT)

B-cell lymphoma presenting as an ejection systolic murmur.

P1302

T. Constantinides, M. Ioannides, K. Yiagou, P. Avraamides (Nicosia, CY)

Pseudo-severe aortic stenosis due to mechanical dyssynchrony in a patient with low contractile reserve.

P1303

*U. Breskvar, M. Mrak, A. Zupan Mezmar, D. Zizek (Ljubljana, SI)***Echocardiography: Masses and Sources of Emboli**

Is antibiotic profilaxis really not needed in mitral valve prolapse?

P1304

S. Suma, S. Coli, W. Serra, I. Spaggiari, A. Botti, F. Cozza, S. Garibaldi, N. Gaibazzi (Parma, IT)

Rare complication of a frequent disease.

P1305

S. Boeangiu, E. Stoica, M. Anton, C. Maresiu, C. Margineanu, G. Marin, D. Penes, O. Chioncel (Bucharest, RO)

A large cardiac mass of left sections in a young man.

P1306

V. Scheggi, P. L. Stefano, B. Alterini (Florence, IT)

An echocardiographic observation over the disappearing process of the prosthetic valve thrombus caused by the inflammatory hypercoagulability; a case report.

P1307

S. Suzuki, Y. Takeuchi, N. Hiramatsu, H. Tsuneyoshi, T. Shimada (Shizuoka, JP)

A peculiar case of an acute pulmonary embolism.	P1308
<i>I. Campos, P. Azevedo, V.H. Pereira, A. Costeira-Pereira, N. Salome, C. Vieira, C. Costa-Oliveira, C. Marques Pires, P. Medeiros, R. Flores, F. Mane, J. Marques (Braga, PT)</i>	
A jellyfish in the sea.	P1309
<i>J. Tong, E. Lee, P. Joseph Francis (Singapore, SG)</i>	
Prosthetic valve endocarditis or thrombus?	P1310
<i>M. Martins De Carvalho, D. Mendes De Oliveira, R. Alves Pinto, T. Proenca, C.X. Resende, P. Diogo, S. Torres, A. Nunes, P. Araujo, M. Freitas Silva, P. Dias, J. Almeida, F. Macedo, A.J. Almeida, M.J. Maciel (Porto, PT)</i>	
A rare case of asymptomatic cyst in interatrial septum longterm observation.	P1311
<i>J. Lewek, A. Bielecka-Dabrowa, M. Banach, M. Maciejewski (Lodz, PL)</i>	
Implications of a large atrial roof thrombus	P1312
<i>P. Fountoulakis, E. Hamodraka, A. Siama, A. Tsoukas, A.J. Manolis (Athens, GR)</i>	
A curious case of endocarditis.	P1313
<i>I. Campos, A. Marques, L. Sousa, S. Fonseca, I. Apolinario, C. Costa Oliveira, C. Veira, A. Costeira Pereira, N. Salome, V.H. Pereira, C. Marques Pires, P. Medeiros, J. Marques, I. Brandao (Braga, PT)</i>	
A singular explanation of stroke in young adults.	P1314
<i>I. Campos, P. Azevedo, A. Costeira Pereira, N. Salome, C. Vieira, V.H. Pereira, C. Costa Oliveira, C. Marques Pires, P. Medeiros, R. Flores, F. Mane, R. Mare, J. Marques (Braga, PT)</i>	
Right ventricular masses-cause and consequence.	P1315
<i>R. Albegali (Peshawar, PK)</i>	
Huge tumor up to the heart	P1316
<i>E.L. Zamfir, F. Ferrari, L. Pollarolo, F. Pizzetti, F. Brucculeri, G. Biaggi, F. Nardi (Casale Monferrato, IT)</i>	
Transesophageal Echocardiography	
Very late onset of platypnoea orthodeoxia syndrome as first clinical scenario of patent foramen ovale.	P1317
<i>S.M. Binno, L. Moderato, G. Pastorini, B. Matrone, D. Aschieri, L. Moccia, P. Magri, C. Franco, G.Q. Villani (Piacenza, IT)</i>	
Tissue Doppler, Speckle Tracking and Strain Imaging	
Clinical utility of global longitudinal strain in acute myocarditis: a case report	P1318
<i>D. Lai Chin Kon, O. McConnell, I. Andrade, A. Simpson, M. Luckie (Manchester, GB)</i>	
Speckle tracking echocardiography in patients with acute coronary syndrome: the added value.	P1319
<i>D. Di Lisi, A. Polizzi, R. Bentivegna, C. Nugara, M. Lunetta, F. Immordino, S. Novo, G. Novo (Palermo, IT)</i>	
Intraoperative and Interventional Echocardiography	
Percutaneous mitral valve leaflet plication to reduce systolic anterior motion and mitral regurgitation using the transcatheter mitral clip system.	P1320
<i>M. Drakopoulou, S. Soulaïdopoulos, G. Oikonomou, K. Stathogiannis, K. Aggeli, K. Toutouzas, D. Tousoulis (Athens, GR)</i>	
Echocardiography, Other	
A case of multiple levels of ventricular obstruction.	P1321
<i>D. Oikonomidis, A. Klitirinos, M. Koutouzis, A. Kalangos, E. Lazaris, C.H. Papadopoulos (Athens, GR)</i>	
Role of echocardiography in the assessment of mechanical complications of acute myocardial infarction: case report series.	P1322
<i>C. Gonzalez Garay, S.K. Farias Vergara, M.C. Lopez Rincon, B.A. Gaxiola Cadena, A.M. Guzman Ayon (Monterrey, MX)</i>	

From a suspicion of pulmonary arterial hypertension to a rare form of Takayasu disease.

P1323

K. Wrona, M. Polak, K. Mizia-Stec (Katowice, PL)

Right atrial pseudo-aneurysm complicating epithelioid hemangio-endothelioma.

P1324

M. Jameesh, O. Ibrahim, E. Khalifa, S. Helmy (Doha, QA)

Imaging: Cardiac Dimensions, Volume, and Mass

Lymphoma encasing the heart: intra-cardiac or extra-cardiac mass?

P1325

S. Ahmad, M. Lashein, W. Khan (Preston, GB)

Imaging: Valve Disease

Recurrent isolated pulmonary valve endocarditis complicated by heart failure, septic pulmonary embolism and multiple lung abscesses in an intravenous drug abuser.

P1326

B. Zaborska, T. Imiela, G. Makowicz, E. Pilichowska-Paszkiet, U. Grochowicz, A. Budaj (Warsaw, PL)

Imaging: Heart Failure

A bridge to success.

P1328

S. Ranchordas, P. Oliveira, M. Madeira, M. Marques, T. Nolasco, C. Aguiar, M.J. Andrade, M. Sousa Uva, M. Abecasis, J.P. Neves (Carnaxide, PT)

Imaging: Coronary Artery Disease

An unexpected finding in a patient with previous coronary artery bypass grafts and atypical chest pain.

P1329

S. Karanikas, A. Pavlidis, S. Hamid, B. Wasan, C. Shakespeare, N. Papamichael (London, GB)

A rare coronary anomaly in the adult: an extremely large arteriovenous fistula.

P1330

P. Garcia Bras, D. Caceia, L. Moura Branco, R. Ramos, V. Vaz Ferreira, A. Castelo, T. Branco Mano, R. Ilhao Moreira, R.C. Ferreira (Lisbon, PT)

Imaging: Myocardial Disease

A case of late presenting ARVC in a rugby coach

P1331

A. Sultan, A. Dhawan, V. J. Karthikeyan, L. Fenney, J. Spicer, S. Ghag (Wigan, GB)

Breaking the dichotomy of myocardial infarction and stress cardiomyopathy

P1332

C. Jimenez Mendez, A. Cecconi, A. Vera, F. De La Cuerda, E. Gonzalez Bartol, A. Benedicto, A. Rojas, G. Diego, P. Martinez Vives, L. Dominguez, T. Bastante, M.J. Oliveira, P. Caballero, J. Jimenez-Borreguero, F. Alfonso (Madrid, ES)

Imaging: Congenital Heart Disease

The importance of multimodality imaging in the characterization of a congenital myocardial diverticulum.

P1333

G. Ramirez-Escudero Ugalde, A.M.R. Arantza Manzanal Rey, N.G.I. Nora Garcia Ibarrondo, M.C.P. Mireia Codina Prat, L.R.G. Lara Ruiz Gomez, M.C.A. Maria Castellanos Alcalde, A.L.I. Amaia Lambarri Izaguirre, K.U.A. Koldo Ugedo Alzaga, R.C.U. Roberto Candina Urizar, C.A.O. Cristina Asla Ormaza (Bilbao, ES)

Multimodal imaging assessment of a very rare cause of heart failure in adults.

P1334

R.O. Darabont, A.E. Balinisteanu, R.C. Rimbis, A. Nicula, D. Vinereanu (Bucharest, RO)

Cor triatriatum sinister: the importance of multimodality imaging.

P1335

C. Asla Ormaza, A. Manzanal Rey, N. Garcia Ibarrondo, M. Codina Prat, G. Ramirez-Escudero Ugalde, G. Aurrekoetxea Bajeneta, I. Bravo Martinez, M. Castellanos Alcalde, K. Ugedo Alzaga, A. Lambarri Izaguirre, R. Candina Urizar, L. Ruiz Gomez (Bilbao, ES)

Sometimes the heart could appear different if seen under a magnetic resonance scanner: misdiagnosed cases of isolated left ventricle apical hypoplasia and double chambered left ventricle. P1336

G. Trocchio, S. Moscatelli, N. Stagnaro, F. Rizzo, L. AitAli, P. Festa, G. Magnano, M. Marasini (Genova, Genoa and Massa, IT)

Left ventricle outpouchings. Assessing diagnostic complexity. P1337

S. Blasco Turrion, L. Marcos Fuentes, A. Moruno Tirado, F. Coserria Sanchez, I. Valverde Perez (Puerto Real and Seville, ES)

Anomalous left coronary artery from pulmonary artery syndrome diagnosed in adulthood: case of a mother of five. P1338

L. Szabo, K. Borszeki, E. Rabai, Z. Dohy, C. Czibalmos, F.I. Suhai, A. Toth, I. Hartayanszky, B. Merkely, H. Vago (Budapest, HU)

Imaging: Aortic Disease

Clinical masks of aortic aneurysm: staged rupture of an aortic aneurysm under the guise of a recurrent infection. P1339

A.L. Volkova, V.A. Bykov, E.V. Petrova, V.A. Grigoryev, M.Y.U. Tyurin, O.V. Averkov, G.N. Mednikov, D.G. Baldin (Moscow, RU)

Cross-Modality and Multi-Modality Imaging, Other

Clinical report: alert to iatrogenia. P1340

B. Redondo Bermejo, M.M. De La Torre Carpena, M.C. Alonso Rodriguez, C. Tapia Ballesteros, J.C. Munoz San Jose, T. Escudero Caro, M. Revilla Martinez, M.J. Rollan Gomez (Valladolid, ES)

An old patient with two tales: left cor triatriatum and atrial septal defect. P1341

L.N. Agoston Vas Coldea, P. Vrancianu, A. Tutu, R. Agoston, I. Muresan, T. Mocan (Cluj Napoca, RO)

Secondary cardiac tumour- a metastasis from renal cell carcinoma via transvenous extension. P1342

T. Iqbal Penwala, A.R. Sanusi, S.A. Yahaya, P.E. E Samonte, L.K. Tan (Kuala Lumpur, MY)

Post traumatic retained foreign body in the heart: an interesting case. P1343

S. Kesavan, A. Alhasan, A. Kelion (Oxford, GB)

Right ventricular mass: multimodality diagnostic approach to an incidental finding. P1344

J. Ambrozic, A. Kovac, R. Zbacnik, S. Ponorac, P. Kogoj, L. Dimitrovska, Z. DolencStrazar, B. Antolic, M. Sinkovec (Ljubljana and Ljubljana, SI)

Tumors metastatic to the heart :Echo, CT, CMR Imaging. P1345

L. Lanzoni, S. Bonapace, C. Dugo, A. Chiampan, E. Adamo, A. Anselmi, L. Ghiselli, A. Inno, E. Barbieri (Negrar, Verona and Negrar, IT)

Not all chest pains are scary: a case report of an important - but often forgotten - diagnosis. P1346

A. Neto, D. Seabra, N. Moreno, S. Magalhaes, L. Pires, P. Pinto (Penafiel, Matosinhos and Porto, PT)

8:30 - 12:30

POSTER SESSION

POSTER AREA

Poster session 4

All posters are on display from 14:00 to 18:00.

From 15:30 to 16:30: Meet the presenters by their poster.

Echocardiography

Impact of left ventricular ejection fraction and aortic valve sclerosis on cardiovascular outcome in patients with acute ischemic stroke.

P1348

M. Kim, H.L. Kim, K.T. Park, W.H. Lim, J.B. Seo, S.H. Kim, M.A. Kim, J.H. Zo (Seoul, KR)

Echocardiography: Technology

POCUS by general and family physician - advancing physical examination.

P1349

J. Dos Santos, P. Fernandes, F. Rocha Goncalves, P. Pereira Rodrigues, J. Ribeiro, A. Goncalves (Porto and Vila Nova de Gaia, PT)

New 3D Doppler flow method for quantitation of aortic regurgitation.

P1350

E.A.R. Berg, J. Avdal, T. Espeland, H. Torp, S. Aakhus (Trondheim, NO)

Echocardiography: Dimensions, Volumes and Mass

Right ventricular diameter added to D- dimer independently influence on prognosis of patients with pulmonary embolism and intermediate risk.

P1351

M. Bosevski, G. Krstevski, A. Gjorgievski, I. Mitevka, S. Jovanova, E. Srbinovska Kostovska (Skopje, MK)

The truncated ellipsoid method is more accurate than the are-length method, a comparison of 2D echocardiographic methods for calculation of left ventricular mass using cardiac magnetic resonance.

P1352

C. Burup Kristensen, N. Vejlstrup, C. Hassager, K.A. Myhr, F.H.G. Pedersen, S.M. Sattler, R. Mogelvang (Copenhagen, DK)

Echocardiography: Systolic and Diastolic Function

Left ventricular performance patterns in patients with dilated cardiomyopathy and advanced heart failure.

P1353

E. Kinova, D. Somleva, N. Spasova, A. Borizanova, A. Goudev (Sofia, BG)

Prognostic value of the left ventricular longitudinal and circumferential function in patients with takotsubo syndrome during the acute phase.

P1354

K. Koshino, N. Yamaguchi, T. Oshima, K. Hiroe, Y. Ohta, S. Okada, T. Ohta, K. Tanabe (Matsue and Izumo, JP)

Short-term cardiac side-effects from radiotherapy in women with breast cancer.

P1355

T. Witkowski, K. Konat-Baska, D. Dupla, A. Maciejczyk, R. Matkowski, E.A. Jankowska, W. JKosmala (Wroclaw, PL)

Effects of sacubitril/valsartan on vascular resistance in patients with heart failure with reduced ejection fraction and arterial hypertension.

P1356

I. Bayraktarova, T. Katova (Sofia, BG)

Left atrial function decreases with age in patients with repaired tetralogy of Fallot decrease.

P1357

Y. Hosono, K. Takahashi, S. Akimoto, M. Ifuku, T. Iso, K. Yazaki, M. Yamada, K. Matsui, K. Akimoto, K. Nakanishi, M. Nii, S. Kawasaki, M. Kishiro, T. Shimizu (Tokyo and Shizuoka, JP)

New insights into cardiac dysfunction assessed by left atrial function in patients with type 1 diabetes mellitus.

P1358

M. Ifuku, K. Takahashi, T. Iso, S. Akimoto, Y. Hosono, K. Yazaki, R. Yazawa, T. Fukae, H. Haruna, N. Takubo, M. Awata, T. Nishida, F. Ikeda, H. Watada, T. Shimizu (Tokyo, JP)

Left ventricle hypertrophy and diastolic dysfunction in haemodialysis patients after surgical reduction of arteriovenous fistula blood flow.

P1359

A. Valerianova, L. Kovarova, Z. Hruskova, V. Bednarova, V. Tuka, P. Trachta, J. Malik (Prague, CZ)

Tricuspid peak systolic S wave tissue doppler velocity > 12 cm/s avoid 50% of right heart catheterization in Pulmonary Arterial Hypertension.

P1360

C. Fauvel, O. Raitiere, J. Burdeau, N. Si Belkacem, F. Bauer (Rouen, FR)

Loading conditions might mimic right ventricular longitudinal dysfunction in patients with chronic left heart disease and forward failure.

P1361

O. Bech-Hanssen, M. Fredholm, S.E. Bartfay, K. Karason, G. Dellgren, S.E. Ricksten (Gothenburg, SE)

Echocardiography: Valve Disease

Echocardiographic findings and BNP levels in patients with valve-in-valve implantation in small failed mitroflow aortic prosthesis.

P1362

S. Muscoli, V. Cammalleri, J. Cosma, M. Zuccaro, M. Macrini, R. Mollace, A. Tavernese, A. Mauceri, M. Stelitano, G. Uccello, P. De Vico, F. Romeo (Rome, IT)

Risk factors of severe tricuspid regurgitation after left-sided valve surgery

P1363

R. Horita, K. Mahara, Y. Izumi, M. Terada, K. Kishiki, S. Takanashi (Tokyo, JP)

Contractile reserve predicts reverse remodelling after successful percutaneous mitral valve repair in patients with functional mitral regurgitation

P1364

P. Mortelmans, P. Debonnaire, B.P. Paelinck, D. De Bock, P. Coussement, M.J. Claeys, C.M. Van De Heyning (Edegem and Brugge, BE)

Different response of myocardial contractility by layer following acute pressure unloading after transcatheter aortic valve implantation.

P1365

S. Cimino, V. Maestrini, S. Monosilio, F. Luongo, M. Neccia, L.I. Birtolo, V. Petronilli, D. Cantisani, N. Salvi, D. Filomena, M. Mocci, S. Quaranta, M. Mancone, F. Fedele, L. Agati (Rome, IT)

Low-flow, low-gradient severe aortic stenosis: might mitral regurgitation be a culprit?

P1366

J. Ferreira, M. Beringuilho, D. Faria, D. Roque, H. Ferreira, J. Augusto, A. Freitas, J. Morais, C. Morais (Amadora, PT)

Prevalence of left ventricular hypertrophy, diastolic dysfunction and pulmonary hypertension in patients with severe aortic valve stenosis.

P1367

S. Stoebe, J. Kandels, B. Tayal, U. Laufs, P. Sogaard, A. Hagendorff (Leipzig, DE; Aalborg, DK)

Effect of angiotensin receptor blocker in patients with moderate or severe aortic stenosis: a randomized controlled trial.

P1368

I. Hwang, J.M. Lee, J.B. Park, Y.E. Yoon, S.P. Lee, H.K. Kim, Y.J. Kim, G.Y. Cho, S.J. Park, K.H. Kim, G.R. Hong (Seongnam, Seoul and Gwangju, KR)

Mitral regurgitation reduction after transcatheter aortic valve implantation (TAVI).

P1369

E. Ostrowska Kaim, M. Stapor, J. Trebacz, R. Sobczynski, J. Konstanty-Kalandy, Ł. Wiewiorka, J. Nawara-Skipirzepsa, R. Musial, K. Zmudka, B. Kapelak, J. Legutko (Cracow, PL)

Correlation of aortic stenosis by integrated transthoracic and transesophageal echocardiography with calcium score.

P1370

S. Schwartzberg, Y. Shapira, M. Vaturi, M. Nassar, A. Hamdan, I. Yedidya, H. Ofek, S. Kazum, D. Monakier, R. Kornowski, A. Sagie (Petah Tikva, IL)

The effect of ideal BSA in patients with low-flow, low-gradient severe aortic stenosis.

P1371

M. Matangi, M. Cases, T. Zhu, U. Jurt, D. Brouillard (Kingston, CA)

Echocardiography: Masses and Sources of Emboli

Cardiac source of embolism diagnosed by transeophageal echocardiography - what to expect in nowadays clinical practice.

P1373

T. Branco Mano, S. Aguiar Rosa, A.T. Timoteo, P. Rio, L. Moura Branco, A. Galrinho, J. Abreu, A. Castelo, V. Vaz Ferreira, P. Garcia Bras, T. Mendonca, A. Leal, F. Gameiro, R. Cruz Ferreira (Lisbon, PT)

Clinical outcomes of patients with solid left atrial appendage thrombi. Predictors of thrombus resolution and impact of anticoagulation regimens.

P1374

D. Nelles, M. Lambers, M. Schafigh, R. Schueler, V. Vij, J.W. Schrickel, G. Nickenig, C. Hammerstingl, A. Sedaghat (Bonn, Essen and Cologne, DE)

Doppler Echocardiography

- Echocardiographic estimation of right ventricle wall tension: hemodynamic comparison and long term follow up. P1375
U. Annone, P. Bocchino, W. Grosso Marra, A. Milan, F. D'ascenzo, C. Magnino, A. Montefusco, P. Omede, F. Veglio, M. Rinaldi (Turin, IT)

Transesophageal Echocardiography

- The utility of platelets indices in predicting the presence of left atrial appendage thrombus in patients with atrial fibrillation. P1376
A. Vijan, C. Delcea, A. Andrus, I. Doha, G.A. Dan (Bucharest, RO)
- Predicting the presence of coronary artery disease by transesophageal echocardiography. P1377
H. Heidari, H. Ran, C. Roth, C. Hengstenberg, T. Binder, G. Gollasch, M. Schneider (Vienna, AT; Nanjing, CN)

Tissue Doppler, Speckle Tracking and Strain Imaging

- Impact of maternal diabetes on fetal left atrial function. P1378
F. Pathan, P. Lam, S. Sivapathan, S. Orde, K. Negishi, R. Nanan (Sydney, AU)
- Tissue Doppler and speckled tracking of left ventricle post coarctation repair. P1380
F. Hassan, E. Abdelsattar, S. Emam, R. Ebrahim, H. Ebrahim (Cairo, EG)
- The utility of left ventricle deformation in patients with myocarditis with midle-range and preserved ejection fraction. P1381
G. Krljanac, I. Veljic, A. Ristic, R. Maksimovic, I. Milinkovic, M. Asanin, D. Stanisavljevic, M. Polovina, P.M. Seferovic (Belgrade, RS)
- Evidence for longitudinal aorta strain relationship with noninvasive left ventricular myocardial work: another component for the ventricular-aorta coupling? P1382
I. Armenis, E. Demerouti, A. Motsi, G. Athanassopoulos (Piraeus Greece, GR)
- The effects of doxorubicin on left and right ventricular strain in patients with lymphoma: insights from a retrospective study. P1383
S. Vahabi, M. Stewart, A. Kasim, H. Hancock, M. Norouzi, J. Maddox, D. Austin (Middlesbrough, Stockton-on-Tees and Newcastle Upon Tyne, GB)
- Longitudinal strain in basal, midventricular and apical segments in aortic stenosis and mitral regurgitation and the relationship to pulmonary capillary wedge pressure at exercise. P1384
P. Hartmund Frederiksen, N.L. Christensen, R. Bakkestroem, R.C. Storch, A. Banke, J. Dahl, J.E. Moller (Odense, DK)
- Mechanical dispersion of the right atrium in dilated cardiomyopathy: does the etiology matter? P1385
A.E. Vijiic, S. Iancovici, S. Onciul, I. Petre, D. Zamfir, R. Onut, M. Stoian, M. Dorobantu (Bucharest, RO)
- A change in left ventricular global longitudinal strain is a prognostic indicator in congestive heart failure patients with preserved ejection fraction. P1386
E. Sakaguchi, A. Yamada, M. Hoshino, K. Takada, N. Hoshino, Y. Kawada, S. Yamabe, Y. Ozaki (Toyoake, JP)
- Correlations between left atrial strain parameters and left ventricular function in young patients presenting with acute ST elevation myocardial infarction. P1387
A.I. Scarlatescu, M.M. Micheu, M. Stoian, D. Zamfir, I. Petre, M. Dorobantu (Bucharest, RO)
- LA and LV strains are closely linked in patients with diastolic dysfunction and preserved ejection fraction. P1388
G. Malaescu, R. Capota, A. Petrescu, J. Duchenne, J.U. Voigt (Leuven, BE)
- Less dependent to loading conditions, TAPSE and S peak systolic tricuspid velocity are the 2 most robust indices to investigate right ventricular systolic function. P1389
C. Fauvel, O. Raitiere, J. Burdeau, N. Si Belkacem, F. Bauer (Rouen, FR)

Myocardial work indices in the assessment of the systolic function of the left ventricle in amateur half marathon runners. P1390

R. Dankowski, A. Szalek, J. Tschurl, W. Sacharczuk, A. Baszko, L. Woznicka-Leskiewicz, A. Posadzy-Malaczynska, A. Szyszka (Poznan, PL)

Global longitudinal strain in chronic asymptomatic aortic regurgitation: a metaanalysis. P1391

D. De Campos, R. Teixeira, A. Botelho, C. Saleiro, J. Lopes, L. Puga, J. M. Ribeiro, J. Sousa, L. Goncalves (Coimbra, PT)

Association of iron deficiency with left ventricular longitudinal function abnormalities in patients with acute myocarditis. P1392

W. Kosmala, P. Franczuk, E. Jasic-Szpak, M. Tkaczyszyn, M. Drozd, N. Sidorowicz, K. Kulej-Lyko, T. Walczak, A. Zapolska, M. Przewlocka-Kosmala, P. Ponikowski, E.A. Jankowska (Wroclaw, PL)

Intervendor difference in global and regional 2D speckle tracking strain. comparison against cMR tagging. P1393

T. Tamakloe, H. Langet, M.A. Amzulescu, E. Saloux, A. Manrique, A.C. Pouleur, D. Vancraeynest, A. Pasquet, J.L. Vanoverschelde, B.L.M. Gerber (Brussels, BE; Suresnes and Caen, FR)

Left atrial strain as a tool to explore disturbed system biology involving cerebral cognition in diabetes: A sub study of the European multicenter MOPEAD project. P1394

S.K. Saha, A. Kiotsekoglou, A. Borysenko, A. Gopal, S.C. Govind (Sundsvall, SE; Roslyn, US; Bangalore, IN)

New predictors of burned-out phase in hypertrophic cardiomyopathy. P1395

D.M. Adamczak, A. Rogala, M. Antoniuk, Z. Oko-Sarnowska (Poznan, PL)

Three-dimensional cardiac mechanics for prediction of events in Chagas disease. P1396

V.T. Hotta, M.C.D. Abduch, M.L.C. Vieira, B.M. Ianni, C. Mady, E.A. Bocchi (Sao Paulo, BR)

Stress Echocardiography

NR rehabilitation in pulmonary arterial hypertension: REHABHTP. P1397

A. Missana, M. Azzolini Jacquin, D. Baudouy, C. Sanfiorenzo, S. Leroy, M. Sermesant, E. Ferrari, P. Mocerì (Nice and sophia antipolis, FR)

Echocardiographic continuous monitoring of exercise stress test using probe fixation device. P1398

K. Wdowiak-Okrojek, P. Wejner-Mik, Z. Bednarkiewicz, P. Lipiec, J.D. Kasprzak (Lodz, PL)

Global longitudinal systolic deformation of the left ventricle during stress echocardiography with physical exercise may identify patients with severe coronary artery disease P1399

A. Stepanova, M.N. Alekhin (Moscow, RU)

Improving ischemia diagnosis: 3D speckle-tracking stress echocardiography. P1400

M. Pascual Izco, E. Casas Rojo, A. Kardos, G.L. Alonso Salinas, A. Garcia Martin, R. Hinojar Baydes, J.M. Monteagudo Ruiz, J.D. Sanchez Vega, J. Ramos Jimenez, J.J. Jimenez Nacher, S. Ruiz, J.L. Moya, J.L. Zamorano Gomez, C. Fernandez-Golfin Loban (Madrid, ES; Milton Keynes, GB)

The prognostic value of the reduction of coronary flow velocity reserve in non-ischemic heart failure patients P1401

C. Borguezan Daros, Q. Ciampi, H. Zanella, L. Cortigiani, N. Gaibazzi, F. Rigo, J.L. De Castro E Silva Pretto, A. Djordjevic-Dikic, M. Amor, P.M. Merlo, R. Citro, P. Colonna, J. Lowenstein, M.A.R. Torres, E. Picano (Criciuma, Passo Fundo and Porto Alegre, BR; Benevento, Lucca, Parma, Mestre-Venice, Salerno, Bari and Pisa, IT; Mexico City, MX; Belgrade, RS; buenos aires, AR)

The behavior of regional longitudinal strain depends on the coronary reserve in a simultaneous analysis during Dipyridamol Stress Echocardiography Test. P1402

R. Arbucci, D. Lowenstein Haber, P. Merlo, G. Zambrana, G. Rousse, M. Amor, D. Sevilla, S. Sciolini, A. Saad, J.A. Lowenstein (Buenos Aires, AR)

Prognostic value of B-lines during stress lung ultrasound. P1403

K. Coviello, M.C. Scali, A. Zagatina, N. Zhuravskaya, L. Cortigiani, N. Gaibazzi, C. Borguezan Daros, K. Wierzbowska-Drabik, J.D. Kasprzak, A. Djordjevic-Dikic, I. Simova, D. Morrone, F. Lattanzi, Q. Ciampi, E. Picano (Pisa, Lucca, Parma and Benevento, IT; Saint Petersburg, RU; Criciuma, BR; Lodz, PL; Belgrade, RS; Sofia, BG)

Additional power of automated longitudinal strain during dobutamine stress echo for detecting inducible ischemia in left anterior descending artery stenosis

P1404

F. Ilardi, C. Santoro, M. Lembo, R. Dulgheru, R. Esposito, R. Sorrentino, S. Marchetta, V. Sellitto, P. Lancellotti, G. Esposito, M. Galderisi (Naples, IT; Liege, BE)

3D Echocardiography

3D echocardiographic assessment of right ventriculo-arterial coupling in mitral valve prolapse.

P1405

L.F. Filippetti, O.H. Huttin, C.V. Venner, R.A. Aubert, Y.J. Juilliere, C.S.S. SeltonSuty (Vandoeuvre les Nancy, FR)

Normal reference values of right atrial strain parameters using three-dimensional speckle-tracking echocardiography in healthy adults.

P1406

A. Nemes, A. Kormanyos, P. Domsik, A. Kalapos, N. Ambrus, C. Lengyel, T. Forster (Szeged, HU)

Three dimensional echocardiography in cardiac myxomas.

P1407

D. Galzerano, S. Di Michele, I. Elmahi, M. Al Shaihid, M. Al Amri, F. Arshi, O. Vriza, F. Colivicchi, J. Al Buraiki (Riyadh, SA; Rome, IT)

Age and gender dependency of left ventricular and left atrial volume ratio assessed by three-dimensional echocardiography.

P1408

M. Takeuchi, K. Otani, T. Kitano, Y. Nabeshima (Kitakyushu, JP)

Sizing of mitral annuloplasty rings using three-dimensional transoesophageal echocardiography.

P1409

K. Yoshitani, T. Fujii, S. Ito, A. Shimokawa, Y. Ohnishi (Suita, JP)

Right ventricle to pulmonary circulation coupling is primarily defined by the circumferential right ventricle function.

P1410

F. Bandera, G. D'alesio, G. Ghizzardi, M. Losito, S. Boveri, E. Alfonzetti, M. Guazzi (Milan, IT)

Intraoperative and Interventional Echocardiography

Ultra-soundguided transseptal access in catheter ablation of left-sided tachyarrhythmias - single centre experience.

P1411

D. Zizek, B. Antolic, N. Kajdic, N. Zorz, U. Breskvar, A. Zupan Meznar, M. Jan (Ljubljana, SI)

A new light to improve the view of the anatomical details during micro-invasive trans-ventricular repair of degenerative prolapse of mitral valve.

P1412

A. Vairo, M. Marro, G. Speziali, M. Rinaldi, S. Salizzoni (Turin, IT)

Complexity of changes in right ventricular function in patients undergoing cardiac surgery.

P1413

P. Wejner-Mik, J.D. Kasprzak, E. Szymczyk, K. Wdowia-Okrojek, A. Ammer, G. Religa, P. Lipiec (Lodz, PL)

Echocardiography, Other

Diagnostic methods of ventricular tachyarrhythmias prediction power study.

P1414

T. Atabekov, R. Batalov, S. Krivolapov, S. Sazonova, S. Popov (Tomsk, RU)

Obesity and epicardial fat in a Spanish infant population by echocardiography.

P1415

C.H. Aristizabal Duque, J. Fernandez Cabeza, I.M. Blancas Sanchez, M. Ruiz Ortiz, M. Delgado Ortega, A. Rodriguez Almodovar, M. Pan Alvarez Osorio, E. Romo Pena, F.J. Fonseca Del Pozo, M. Romero Sardana, D. Mesa Rubio (Cordoba and cordoba, ES)

Clinical importance of consecutive transthoracic echocardiography in the patients with hypertrophic cardiomyopathy.

P1416

K. Kim, H.R. Kim, M.G. Kang, H.Y. Park, J.S. Koh, S.J. Hwang, J.Y. Hwang, J.R. Park (Jinju, KR)

Acceptability of a virtual reality system for examination of congenital heart disease patients.

P1417

G. Wheeler, S. Deng, K. Pushparajah, J. A. Schnabel, J. M. Simpson, A. Gomez (London, GB)

Clinical profile and outcome of infective endocarditis patients transferred to a tertiary center.

P1418

M. Gonzalez, N. Vallejo, R. Nunez, C. Llibre, E. Berastegui, J. Lopez Ayerbe, C. Munoz, A. Bayes Genis (Badalona, ES)

Imaging: Cardiac Dimensions, Volume, and Mass

Sex-related differences in cardiac remodeling in health and hypertension.

P1419

A.I.H. Phua, S.W. Tara, T.T. Le, J.A. Bryant, D.F.K. Toh, B.W.Y. Ang, B. Su, S.A. Cook, C.W.L. Chin (Adelaide, AU; Singapore, SG)

Imaging: Systolic and Diastolic Function

2D speckle tracking (st) with 4D echocardiography and muga scan assesse impact of type ii diabetes mellitus on left ventricular systolic function in patients with negative myocardial perfusion imagi.

P1420

T. Ahmed, M. Naim, N. Abdelaziz (Cairo, EG)

Patients with severe aortic regurgitation showed systolic dysfunction and increased stroke work despite preserved EF; clues for reconsidering optimal time point of surgery.

P1421

J.C. Reil, G.H. Reil, J.S. Borer, N. Hecker, A. Aboud, H.S. Schaefer, H.F. Langer, H.H. Sievers, S. Ensminger (Luebeck, Oldenburg and Homburg, DE; New York, US)

Imaging: Valve Disease

Relationship between imaging parameters of aortic valve stenosis and the type and timing of the symptoms developed.

P1422

T. Sevilla, A. Revilla-Orodea, J. Lopez, C. Baladron, I. Gomez, J.A. San Roman (Valladolid, ES)

Significantly higher 1-year mortality rate in patients undergoing TAVR with higher right ventricular volumes, as calculated by preprocedural CT angiography.

P1423

E. Maret, Z. Rozenbaum, L. Lax, H. Shmilovich, A. Finkelstein, A. Steinvil, A. Halkin, S. Banai, D. Cohen, Y. Topilsky, S. Berliner, D. Fleischmann, G. Aviram (Stockholm, SE; Tel Aviv, IL; Stanford, US)

Long-term follow-up in patients undergoing early surgery (repair) for severe degenerative mitral regurgitation.

P1424

G. Tamborini, V. Mantegazza, M. Muratori, L. Fusini, L. Manfredonia, S. Ghulam Ali, C. Cefalu, G. Italiano, V. Volpato, P. Gripari, M. Pepi (Milan and Rome, IT)

Association between severity of mitral regurgitation and right ventricular function in patients with moderate to severe mitral regurgitation assessed by invasive hemodynamics measurements.

P1425

M. Omar (Odense, DK)

Imaging: Arrhythmias

Non-cardiac sources of thromboembolic complications in atrial fibrillation.

P1426

O. Germanova, A. Germanov (Samara, RU)

Mechanical dispersion assessed with echocardiography versus scar characterization with cardiac magnetic resonance to predict malignant arrhythmia in cardiac resynchronization therapy patients.

P1427

A. Doltra, Y. Bertolani, M. Linhart, J. Acosta, J.M. Tolosana, L.L. Mont, A. Berruezo, M. Sitges (Barcelona, Girona and Seville, ES)

Mortality in non-ischemic cardiomyopathy is low and close to the general population.

P1428

D. Melichova, T.M. Nguyen, I.M. Salte, L.G. Klæbo, B. Sjøli, S. Karlsen, T. Dahlslett, I.S. Leren, T. Edvardsen, H. Brunvand, K.H. Haugaa (Arendal and Oslo, NO)

Imaging: Heart Failure

B-Type natriuretic peptide prediction of right catheterization parameters in the first year after heart transplant.

P1429

A.A. Valentim Goncalves, T. PereiraDaSilva,

R. Soares, L. De Sousa, R. Ilhao Moreira, P. Rio, J. Feliciano, M. Cruz Coutinho, J. Reis, T. Mano, T. Mendonca, R. Cruz Ferreira (Lisbon, PT)

Analysis of echocardiographic study findings prior to an allogeneic hematopoietic stem cell transplantation. P1430
V. Vallejo Garcia, A. Martin Garcia, J.C. Castro Garay, L. Lopez Corral, A.C. Martin Garcia, A. Cabanillas Cabral, E. Diaz Pelaez, M. Barreiro Perez, L. Rodriguez Estevez, Y. Castillo, D. Avila, C. Sanchez Pablo, E. Cambronero Cortinas, D. Caballero Barrigon, P.L. Sanchez Fernandez (Salamanca, ES)

Safety of thoracentesis in patients with refractory heart failure: lung ultrasound guidance is obligatory and blind procedures are not justified. P1431
A. Lazarevic, M. Dobric, M. Kantar, B. Goronja, S. Krivokuca, J. Jovanic, N. Lazarevic, M. Duronjic, E. Picano (Banja Luka, BA; Belgrade, RS; Pisa, IT)

Heart failure subgroups according to left ventricular ejection fraction A latent class analysis. P1432
C. Morbach, C. Henneges, F. Sahiti, M. Breunig, V. Cejka, G. Ertl, S. Frantz, C.E. Angermann, S. Stoerk (Wuerzburg and Wurzburg, DE)

Antiarrhythmic effects of sacubitril-valsartan therapy assessed by mechanical dispersion index. P1433
A.A. Valentim Goncalves, A. Galrinho, T. Pereira-Da-Silva, L. Moura Branco, P. Rio, A. Teresa Timoteo, J. Abreu, R. Soares, R. Ilhao Moreira, T. Mendonca, M. Coutinho Cruz, J. Reis, T. Mano, R. Cruz Ferreira (Lisbon, PT)

Imaging: Coronary Artery Disease

Evolution of coronary wall shear stress following implantation of bioabsorbable vascular scaffolds - first results of a 1-year follow-up pilot study. P1434
T. Benedek, I. Ferent, A. Benedek, D. Cernica, C. Nita, A. Puiu, L. Itu, S. Rapaka, S. Puneet, I.S. Benedek (Targu Mures and Brasov, RO; Princeton, US)

The impact of intermediate wall shear strain on changes of plaque morphology in CAD: A systematic review and metaanalysis. P1435
I. Bytyci, A.B. Artan Bajraktari, S. Elezi, M.Y. Michael (Umea, SE; Prishtina, XK)

Diagnostic yield and accuracy of CT coronary angiography compared to invasive coronary angiography: real world data from a district general hospital in the United Kingdom. P1436
A.M. Masoud, W.T. Topping, M.L. Lynch (Stevenage, GB)

Imaging: Acute Coronary Syndromes

Integrated ST segment elevation score as a new predictor of the myocardial scar extent determined with LGE-CMR at 1-month followup after STEMI. P1437
A. Mester, T. Benedek, D. Opincariu, A. Benedek, M. Ratiu, R. Hodas, D. Cernica, I. Kovacs, N. Rat, M. Chitu, I. Benedek (Targu Mures and Targu-Mures, RO)

The impact of on-admission hyperglycemia in patients with STEMI on the left ventricular function and 60 days mortality. P1438
A. Aldujeli, N. Stoskute, J. Plisiene, R. Unikas (Kaunas, LT)

Imaging: Myocardial Disease

Familial dilated cardiomyopathy: assessment of left ventricular systolic and diastolic function by echocardiogram in asymptomatic patients. P1439
M. Quezada, M. Ramos, R. Ayala, M. Calderon-Dominguez, P. Guerrero De La Riva, Z. Villa Benayas, M. Munoz Carrasco, R. Toro (Madrid and Cádiz, ES)

Predictors of systemic embolisms in a large cohort of left ventricular noncompaction patients. P1441
G. Casas, G. Oristrell, J. Limeres, R. Barriales, J.R. Gimeno, P. Garcia Pavia, E. Zorio, E. Villacorta, J. Jimenez Jaimez, A. Bayes, J.M. Garcia Pinilla, A.J. Palomino, A. Evangelista, I. Ferreira, J.F. Rodriguez-Palomares (Barcelona, A Coruna, Murcia, Madrid, Valencia, Salamanca, Granada, Badalona and Malaga, ES)

Outcomes of patients with left ventricular noncompaction and preserved ejection fraction. P1442
G. Casas, G. Oristrell, J. Limeres, R. Barriales, J.R. Gimeno, P. Garcia Pavia, E. Zorio, E. Villacorta, J. Jimenez Jaimez, A. Bayes, J.M. Garcia Pinilla, A.J. Palomino, A. Evangelista, I. Ferreira, J.F. Rodriguez-Palomares (Barcelona, A Coruna, Murcia, Madrid, Valencia, Salamanca, Granada, Badalona and Malaga, ES)

Sex differences of coronary physiology can be justified by fractional myocardial mass.

P1443

H.Y. Kim, K.H. Kim, J.H. Choi (Gwangju and Seoul, KR)

Imaging: Pericardial Disease

Occurrence and predictors of right ventricular dysfunction after pericardiocentesis.

P1444

H. Matsutani, M. Amano, C. Izumi, M. Baba, R. Abe, S. Hashiwada, K. Kuwano, M. Shimada, J. Sakamoto, M. Miyake, T. Tamura, S. Matsuo (Tenri and Osaka, JP)

Imaging: Congenital Heart Disease

DORv and window: a case of an uncorrected double outlet right ventricle with dtransposition of great arteries with concomitant aortopulmonary window in a 31-year-old female.

P1445

R. Enero, S. Obillos, P. Yao, E. Dizon, V. Choa, L. Go, A. Cheng, A. Carreon (Manila, PH)

Correlation of B-Type natriuretic peptide with LV and RV function assessed by echocardiography in adults congenital heart diseases patients.

P1446

C. Kavouras, K. Dimopoulos, A. La Leggia, R. Barracano, M. Brida, I. Cazzoli, M. Gatzoulis, W. Li (London, GB)

Imaging: Aortic Disease

Ascending aorta longitudinal strain in bicuspid aortic valve patients: a comparison with healthy volunteers and patients with degenerative aortic aneurysm.

P1447

A. Guala, G. Teixido-Tura, A. Ruiz-Munoz, M. Gandara, L. Madrenas, N. Izagirre, A. Lopez Sainz, F. Valente, L. Galian, T. Gonzalez-Alujas, L. Servato, A. Sao Aviles, A. Evangelista, I. Ferreira, J. Rodriguez-Palomares (Barcelona, ES)

Thoracic aorta and circulating transforming growth factor- β in marfan syndrome and marfanoid habitus.

P1448

E. Malev, S. Reeve, E. Timofeev, E. Luneva (Saint Petersburg and Saint-Petersburg, RU)

Cross-Modality and Multi-Modality Imaging, Other

CMR-driven computational modeling of right ventricular flow dynamics.

P1449

F. Capuano, L. Romano, Y.H. Loke, S. Dellegrottaglie, M. Notorio, R. Cocchia, B. Ranieri, F. Ferrara, C. Contaldi, G. Mirto, G. Coppola, C. Mauro, E. Balaras, E. Bossone (Naples and Salerno, IT; Washington, US)

14:00 - 18:00

POSTER SESSION

POSTER AREA

Clinical case poster session 5

All posters are on display from 14:00 to 18:00.

From 15:30 to 16:30: Meet the presenters by their poster.

Echocardiography: Masses and Sources of Emboli

Pulmonary artery sarcoma mimicking as pulmonary thromboembolism for a young man: the role of multimodality imaging for diagnosis.

P1450

R. Ereminiene, E. Sakaviciute, R. Ereminas, A. Jankauskas, L. Poskiene, A. Ruminaite, S. Miliauskas, R. Benetis, E. Ereminiene (Kaunas, LT)

Massive fatal venous thrombosis.

P1451

M.M. De La Torre Carpenté, B. Redondo Bermejo, T.M. Perez Sanz, M.A. Acuna Lorenzo, M.I. Revilla Martinez, C. Tapia Ballesteros, E.S. Guillem Ares, A.C. Munoz Fuster, M.J. Rollan Gomez (Valladolid, ES)

A rare case of embolic blindness in an adult patient with univentricular heart after fontan operation.

P1452

J. Lewek, A. Bielecka-Dabrowa, M. Banach, M. Maciejewski (Lodz, PL)

Unfortunate association between obstructive hypertrophic cardiomyopathy and infective endocarditis.

P1453

N. Balaucu, R. Ianos, B. Ulici, R. Beyer, H. Rosianu (Cluj Napoca, RO)

A rare case of unexpected right atrial mass following aortic valve replacement.	P1454
<i>A. Varga, R.C. Serban, C.F. Suciu, H. Suciu, I. Tilea (Targu Mures and TARGU MURES, RO)</i>	
Successfully surgical management of "transit thrombus".	P1455
<i>A. Vera Sainz, T. Bastante, E. Gonzalez, F. De La Cuerda, C. Jimenez, C. De Rueda, A. Montes, A. Cecconi, A. Rojas, G. Diego, A. Benedicto, L. Dominguez, E. Monguio, L.J. Jimenez Borreguero, F. Alfonso (Madrid, ES)</i>	
Pacemaker and percutaneous aortic valve endocarditis - a complex decision.	P1456
<i>A. Cardoso, G. Dias, P. Von Hafe, B. Faria, M. Fernandes, O. Azevedo, S. Leite, I. Machado, A. Lourenco (Guimaraes, PT)</i>	
Septic and aseptic valvular involvement in hypocomplementemic urticarial vasculitis syndrome.	P1457
<i>V. Scheggi, I. Olivotto, B. Alterini (Florence, IT)</i>	
Recurrent endocarditis on mitral valve prosthesis.	P1458
<i>S. Suma, C. Spaziani, T. Manca, A. Ramelli, A. Vezzani, F. Nicolini, T. Gherli, V. Brambilla, D. Sartorio, A. Botti, F. Cozza, S. Garibaldi, N. Gaibazzi (Parma, IT)</i>	
Flu-like syndrome complicated in a rare form of infective endocarditis.	P1459
<i>D. Kristo, J. Nacher Jimenez, J. Moya Nur, J. Roda, B. Seidelberger, E. Casas Rojo, R. Hinojar, M. Pasqual, D. Sanchez, J. Vieitez, C. Golfin, J. Zamorano (Madrid, ES)</i>	
Atrial myxoma with atypical location in an asymptomatic patient.	P1460
<i>E. Shirka, A. Doko, V. Paparisto, R. Osmenaj, H. Gjergo, A. Demiraj, A. Kacani, B. Prendi, A. Beqiraj, A. Rrapo, A. Goda (Tirana, AL)</i>	
Transesophageal Echocardiography	
Concomitant potential cardioembolic sources in a patient with an acute ischemia of the limb.	P1461
<i>M. Carrington, A. Briosia, M. Quadrado, A. Manuel, G. Marques, M.J. Ferreira, I. Joao, H. Pereira (Evora and Almada, PT)</i>	
Tissue Doppler, Speckle Tracking and Strain Imaging	
Additive value of global longitudinal strain measurement in patients with known or suspected ischaemic heart disease undergoing stress echo.	P1462
<i>F. Castellano, A. Lupo, C. Nugara, O.F. Triolo, G. Evola, D. Di Lisi, R. Trapani, S. Novo, G. Novo (Palermo, IT)</i>	
3D Echocardiography	
Severe stenosis due to obstructive prosthetic thrombosis with truevue, a new echocardiographic tool.	P1463
<i>C. Merino Argos, T. Lopez Fernandez, R. Eiros Bachiller, S. C. Valbuena Lopez, J. Caro Codon, R. Dalmau Gonzalez-Gallarza, F. Dominguez Melcon, S. O. Rosillo Rodriguez, G. Guzman Martinez, I. Marco Clement, L. Martin Polo, L. Martinez Marin, L. Rodriguez Sotelo, I. D. Poveda Pinedo, J. L. Lopez-Sendon (Madrid, ES)</i>	
A case of cortriatriatum dexter accidentally discovered in an adult.	P1464
<i>H.S.A. Abdelgawad, M. Abdelnabi, A. Almaghrabi, M. Shehata, M.A. Abdelhay (Alexandria, EG)</i>	
Ventricular septal defect and pulmonary artery aneurysm; How does it look by three dimensional echocardiography.	P1465
<i>H.S.A. Abdelgawad, M. Abdelnabi, A. Almaghrabi, M. Shehata, M.A. Abdelhay (Alexandria, EG)</i>	
Pacman heart documented by multimodality echocardiographic techniques.	P1466
<i>S. Cardoso Torres, C. Sousa, J. Rodrigues, A. Nunes, P. Araujo, P. Grilo, C.X. Resende, F. Macedo, M.J. Maciel (Porto, PT)</i>	
Natural history and outcome of a patient with untreated congenital pulmonary stenosis added value of 3d echo in decision making.	P1467
<i>M.L. De Alcantara, A.S. Felix, A.P.R.V. Siciliano, H.E. Veronesi, C.E.F. Vedovelli, E.M. Nunes (Rio de Janeiro, BR)</i>	
A rare cause of chest pain:sudden rupture of aortic valsalva sinus aneurysm.	P1468
<i>N. Shaaban, H. Shehata, M. Abdelnabi, A. Maghraby, N. Othman (Alexandria, EG)</i>	

Intraoperative and Interventional Echocardiography

- Rare cause of papillary muscle rupture post cardiac surgery. P1470
E. Lopez Rodriguez, F. Calvo Iglesias, E. Blanco Gonzalez, M.A. Varela Martinez, J.J. Legarra Calderon (Vigo, ES)
- Aortic, mitral and tricuspid valve transcatheter therapy in patient with severe chronic heart failure. P1471
B.M. Szlosarczyk, K. Golinska-Grzybala, J. Rzucidlo-Resil, J. Trebacz, M. Stapor, M. Konieczynska, A. Gackowski (Krakow, PL)
- Concealed thrombus in a 12-year-old boy diagnosed by disappearance of intricate comb-like pectinate muscle form in the left atrial appendage. P1472
Y. Takeuchi, S. Suzuki, H. Tsuneyoshi, H. Sakamoto, T. Shimada (Shizuoka, JP)

Echocardiography, Other

- Detection of cardiac sources of cerebrovascular events in patient with systemic lupus erythematosus with neuropsychiatric manifestations. P1473
M. Gegenava, T. Gegenava, T. Huizinga (Leiden, NL)
- Right or left; which sided the infective endocarditis is? P1474
A.A. Baskurt, E. Ozpelit, Z. Kumral, B. Akdeniz (Izmir, TR)
- Is it rupture or pressure collapse? P1475
A. Mustafa, S. Wahba, A. Shaker, M. Nady, K. Al-Rawy (Cairo, EG)

Imaging: Valve Disease

- Percutaneous paravalvular leak closure after transcatheter aortic valve replacement expedited with multimodality imaging. P1476
O. Ozden Tok, M. Abdelnabi, G. Bingol, A. Almaghraby, O. Goktekin, N. Piazza (Istanbul, TR; Alexandria, EG; Montreal, CA)

Imaging: Heart Failure

- Features of structural and functional parameters of the right and left heart and their relationship with the spirometry parameters in patients with CHF of ischemic genesis with COPD. P1477
V. Evdokimov, A. Evdokimova, E. Yushchuk, S. Ivanova (Moscow, RU)
- Evaluation of reversibility of alcoholic cardiomyopathy using doubaimine stress echocardiography. P1478
D.G. Park, W.W. Seo, S.E. Kim, J.H. Lee, K.R. Han, D.J. Oh (Seoul, KR)
- Prognostic value of integrated cardiopulmonary ultrasound in heart failure patients with reduced and preserved ejection fraction. P1479
L. Gargani, N. Pugliese, F. Frassi, S. Masi, P. Landi, S. Taddei, R. Sicari (Pisa, IT)

Imaging: Coronary Artery Disease

- A case of triple left ventricular aneurysms diagnosed by CT and echocardiography. P1480
K. Makino, G. Hashimoto, S. Ide, H. Hayama, Y. Isekame, T. Otsuka, R. Iijima, H. Hara, M. Moroi, M. Suzuki, M. Nakamura (Tokyo, JP)

Imaging: Acute Coronary Syndromes

- Embolic infarct in a known coronary artery disease patient. P1481
E. Pomiato, P. Milewski, A. Comunello, E. Schoepf, R. Oberhollenzer, R. Cemin (Bolzano, IT)

Imaging: Myocardial Disease

Surviving free wall rupture.

P1482

E. Pomiato, P. Milewski, A. Comunello, E. Schoepf, R. Oberhollenzer, R. Cemin (Bolzano, IT)

Imaging: Myocardial Disease

Non-invasive multimodality imaging in diagnosis and management of cardiac sarcoidosis (CS).

P1483

U. Breskvar, A. Zupan Meznar, N. Kajdic, B. Antolic, D. Zizek (Ljubljana, SI)

Imaging: Pericardial Disease

Unusual manifestation of constrictive pericarditis.

P1484

K. Golinska Grzybala, A. Gackowski (Krakow, PL)

Imaging: Congenital Heart Disease

Multiple hindrances in and outside the heart : right ventricular outflow tract obstruction in a child with severe post-subclavian coarctation of aorta and ventricular septal defect.

P1485

S. Naganur (Chandigarh, IN)

An unexpected case of paediatric heart failure.

P1486

P. Theocharis, M.L. Morrison, N. Storrington, K. Adhavaryu, S. Jivanji, E. Rosenthal, O. Miller, S. Mathur, S. Speggiorin (London, GB)

Anomalous right coronary artery from mid left anterior descending artery.

P1487

S.A. Fyyaz, A. Katsigris, S. David, K. Alfakih (London, GB)

Anomalous origin of left coronary artery from right pulmonary artery in association with scimitar syndrome.

P1488

S. Aly, R. Lizano Santamaria, S.J. Yoo (Toronto, CA)

Late cardiovascular manifestations of Gregg syndrome: Importance of multimodal imaging approach to optimize diagnosis.

P1489

S.A. Higuera Leal, O.M. Perez-Fernandez, A. Bernal, S. Gallo-Bernal, J.F. Forero, H.M. Medina (Bogota, CO)

Congenital right coronary artery fistula into right atrium diagnosed with help of multimodality imaging.

P1490

D. Erciyes, O. Ozden Tok, S. Yurdakul, S. Bakan, O. Goktekin (Istanbul, TR)

Aneurysm of the membranous septum after spontaneous closure of ventricular septal defect combined with bicuspid aortic valve.

P1491

M. Drakopoulou, E. Nyktari, S. Soulaïdopoulos, G. Oikonomou, K. Toutouzas, D. Tousoulis (Athens and Heraklion, GR)

A rare case of a spontaneous rupture of a congenital inter ventricular septum diverticulum in an adult.

P1492

E.A. Khalifa, S. Helmy, S. F. Mohamed, A. Ghareep, M. Alkuwari (Doha, QA)

Univentricular heart diagnosed by echocardiography in a patient with good functional capacity.

P1493

R. Pourkia, M.M. Ansari-Ramandi, N. Ziaie, M. Pourkia (Babol and Tehran, IR)

Imaging: Aortic Disease

Incidental finding of aortic aneurysm formation following 34 years of coarctation repair by dacron patch aortoplasty.

P1494

E.A. Khalifa, S. Helmy, S. F. Mohamed, M. Alkuwari (Doha, QA)

Imaging: Peripheral Vascular Disease

Suddenly haunted by a turbulent heart beat in the right ear. Post-traumatic monolateral pulsatile tinnitus caused by cervical arteriovenous malformation: colour-Doppler ultrasound and angio-CT find.

P1495

V. Silvestri, R.I.T.A. Mele (Rome, IT)

Cross-Modality and Multi-Modality Imaging, Other

Congenital anomalous origin of the left coronary system.	P1496
<i>S. Ahmad, I. Ahmed, R. Jibran, C. Raimondo (Preston, Wigan and Blackpool, GB)</i>	
Atypical variant of takotsubo cardiomyopathy due to an unusual non-emotional trigger.	P1497
<i>O.M. Perez Fernandez, S.A. Higuera Leal, C.P. Jaimes, L.M. Contreras, J. Gelves, D. Isaza, H. Medina (Bogota, CO)</i>	
Right atrial thrombus in a young septic patient with lymphoma.	P1498
<i>S. Habjan, B. Erzen, M. Miklic, A. Skarlovnik (Ljubljana, SI)</i>	
A case of missing left ventricular apex	P1499
<i>I.A. Jappari, T.T. Naing, A. Schumacher-Maurer, T. Vineet, H.C. Tang (Singapore, SG)</i>	
Reptilian heart in a man.	P1500
<i>E.O. Ozpelit, E.E.O. Ozcan, M.E.O. Ozpelit, N.O. Ozgul (Izmir, TR)</i>	
Huge lateral wall ventricular pseudoaneurysm complicating a silent myocardial infarction.	P1501
<i>A. Almaghraby, M. Abdelnabi, H. Shehata, Y. Saleh, O. Ozden Tok, R. Laymouna, E. Elsharkawy (Alexandria, EG; Michigan, US; Istanbul, TR)</i>	
A clinical case of mitral annulus disjunction syndrome revealed by cardiac MRI.	P1502
<i>K. Mitrousi, M. Hamilton (Bristol, GB)</i>	

14:00 - 18:00

POSTER SESSION

POSTER AREA

Poster session 5

All posters are on display from 14:00 to 18:00.

From 15:30 to 16:30: Meet the presenters by their poster.

Echocardiography

Aortic root distensibility and stiffness assessed by echocardiography as predictors of coronary artery lesion severity in patients undergoing coronary angiography.

P1503

*H.M. El-Naggar, H.S. Anwar, H.A. Helmy, S.R. Demitry (Assiut, EG)***Echocardiography: Technology**

Inter-vendor comparison of left atrial 2-dimensional strain using multilayer analysis.

P1504

*A. Ferkh, L. Stefani, S. Trivedi, P. Brown, F. Pathan, L. Thomas (Sydney, AU)***Echocardiography: Dimensions, Volumes and Mass**

Echocardiographic assessment of different pulmonary hypertension groups.

P1505

M. Fontes Oliveira, M. Trepá, R. Costa, A. Dias Frias, I. Silveira, S. Cabral, M. Santos, S. Torres, A. Reis (Porto, PT)

The correlation between left atrial volume index and cerebrovascular stroke.

P1506

*A. Almaghraby, M. Abdelnabi, T. Kemalolu Oz, Y. Saleh, H. Shehata, M. Shehata, H. Badran,**M. Elgowelly (Alexandria and Cairo, EG; Istanbul, TR; Michigan, US)*

Early and late morphological changes in the athlete's heart: a longitudinal cohort study in young elite athletes.

P1507

*A.W. Bjerring, H.E.W. Landgraaf, S. Leirstein, M. Lihagen, M. Skei, K. Murbraech, H. Brun, T.M. Stokke, K.H. Haugaa, J. Hallen, T. Edvardsen, S.I. Sarvari (Oslo, NO)***Echocardiography: Systolic and Diastolic Function**

Left ventricular diastolic function plays a different role on mortality depending on the severity of systolic dysfunction in acute heart failure patients with reduced ejection fraction.

P1508

K. Nakamura, A. Yamada, S. Jinno, M. Kato, A. Takahashi, K. Sugimoto, T. Ishikawa, Y. Ozaki, J. Ishii (Toyoake, JP)

Obesity and diastolic function of the left ventricle by echocardiography in a Mediterranean child population.

P1509

*C. Aristizabal Duque, J. Fernandez Cabeza, I.M. Blancas Sanchez, M. Ruiz Ortiz, M. Delgado**Ortega, A. Rodriguez Almodovar, E. Romo Pena, F.J. Fonseca Del Pozo, M. Romero Sardana, M. Pan Alvarez Osorio, D. Mesa Rubio (Cordoba and cordoba, ES)*

Assessment of left ventricular relaxation time constant by noninvasive left ventricular pressure-strain loop: invasive validation.

P1510

V. Meledin, D. Haberman, G. Gandelman, L. Poles, G. Goland, J. George, A. Gerafi, O. Edri, S. Shimon (Rehovot, IL)

Comparison between echocardiographic right ventricular-pulmonary arterial coupling and right ventricular longitudinal strain to identify pulmonary hypertension in heart failure.

P1511

N. Seidova, A. Manouras, L.H. Lund, A. Venkateshvaran (Stockholm, SE)

Combination of mitral annular peak systolic and early diastolic velocities with early transmitral peak flow velocity: a new prognostic echo index in patients with acute coronary syndrome.

P1512

K. Nakamura, A. Yamada, M. Kato, S. Jinno, A. Takahashi, K. Sugimoto, T. Ishikawa, Y. Ozaki, J. Ishii (Toyoake, JP)

Myocardial work analysis is a potential novel tool to diagnose subclinical cardiac dysfunction in cirrhotic cardiomyopathy.

P1513

A.M. Chitroceanu, R.C. Rimbis, S.I. Visoiu, A.E. Balinisteanu, M.L. Luchian, M. Rimbis, C. Pop, D. Vinereanu (Bucharest, RO)

Increased myocardial oxygen demand is associated with impaired left ventricular strain in patients with morbid obesity referred for bariatric surgery.

P1514

L.M. Grymyr, S. Nadirpour, E. Gerdt, B.G. Nedreboe, J.J. Hjertaas, K. Matre, D. Cramariuc (Bergen and Hugesund, NO)

Hemodynamic determinants of tricuspid annular pulmonary systolic excursion (TAPSE)/ systolic pulmonary arterial pressure (SPAP) ratio in Heart Failure with reduced Ejection Fraction.

P1515

F. Bandera, G. Ghizzardi, M. Agnifili, S. Pizzocri, S. Boveri, E. Alfonzetti, M. Saviano, G. D'alesio, F. Bedogni, M. Guazzi (Milan, IT)

Detecting right ventricular systolic dysfunction in patients with acute STElevation myocardial infarction: echocardiography is good enough.

P1516

Z. Pickure, A. Kalinin, K. Pickurs, E. Zakharova, M. Alekhin, A. Lejnieks (Riga, LV; Moscow, RU)

Prognostic value of echocardiographic parameters for RV function in long term follow up of patients presenting with ST elevation myocardial infarction.

P1517

C. Guzu, D. Zamfir, S. Onciul, A. Pascal, A. Scarlatescu, A. Diaconeasa, M. Stoian, I. Cojocar, I.I. Petre, S. Iancovici, V. Bataila, M. Dorobantu (Bucharest, RO)

Echocardiography: Valve Disease

Relationship between post-operative asymptomatic status and reverse remodeling of large left atrium in patients with aortic stenosis who underwent aortic valve replacement.

P1518

T. Hozumi, J. Morimoto, T. Nishi, K. Takemoto, S. Fujita, T. Wada, K. Shimamura, M. Kashiawagi, Y. Shiono, A. Kuroi, Y. Matsuo, Y. Ino, T. Kubo, A. Tanaka, T. Akasaka (Wakayama, JP)

Echocardiographic indices association with frailty in elderly patients: an evaluation tool by heart team for a tailored treatment of severe aortic stenosis..

P1519

A. Mazzone, S. Sbrana, P. Quadrelli, G. Trianni, T. Gasbarri, M. Baroni, E. Cerone, S. Storti, C. Susini, M. Ravani, M. Marotta, C. Vassalle, P. Del Sarto, M. Solinas, S. Berti (Massa and Pisa, IT)

Aortic flow reversal caused by aortic regurgitation deteriorates renal function.

P1520

K. Yamaguchi, H. Yoshitomi, T. Nakamura, K. Okazaki, Y. Morita, Y. Kawahara, Y. Kagawa, T. Ouchi, H. Sato, N. Watanabe, A. Endo, K. Tanabe (Izumo, JP)

Prosthetic heart valve-related stroke: a single center experience.

P1521

A. Almaghraby, M. Abdelnabi, Y. Saleh, O. Abdelkarim, O. Ozden Tok, R. Laymouna, H. Shehata, M. Shehata, H. Badran (Alexandria and Cairo, EG; Michigan, US; Istanbul, TR)

Long term follow-up after early mitral valve surgery. Role of 3D echocardiographic right chambers evaluation in predicting tricuspid regurgitation development.

P1522

V. Volpato, V. Mantegazza, L. Manfredonia, L. Fusini, P. Gripari, G. Tamborini, M. Pepi (Milan, IT)

Impact of different techniques for mitral valve repair on left ventricular function: a 2D/3D echocardiographic analysis.

P1523

S. Cimino, L. I. Birtolo, V. Maestrini, F. De Leo, M. Vinciguerra, D. Filomena, S. Monosilio, F. Luongo, M. Neccia, V. Petronilli, D. Cantisani, E. Greco, F. Miraldi, F. Fedele, L. Agati (Rome, IT)

Postoperative echocardiographic evaluation of patients underwent transcatheter aortic valve implantation for severe aortic stenosis: a single center experience.

P1524

I. Colluoglu, H. Dursun, Z. Tanriverdi, D. Kaya (Karabuk, Izmir and Sanliurfa, TR)

Residual functional mitral regurgitation post-MitraClip is associated with worse hemodynamics and predicts poor outcome at 2-year follow-up.

P1525

C.M. Van De Heyning, P. Debonnaire, P.B. Bertrand, P. Mortelmans, S. Deferm, B.P. Paelinck, D. De Bock, P. Coussement, P.M. Vandervoort, M.J. Claeys (Edegem, Brugge and Genk, BE)

Echocardiography: Masses and Sources of Emboli

Updated prevalence of lambls excrescences using the latest three-dimensional transesophageal echocardiography. P1526
T. Takahashi, K. Kusunose, S. Hayashi, S. Morita, Y. Torii, Y. Hirata, M. Yamao, S. Nishio, O. Yuichiro, M. Abe, N. Yamada, H. Yamada, T. Wakatsuki, M. Sata (Tokushima, JP)

Papillary fibroelastomas: diagnostic challenges and clinical and morphologic features. P1527
A. Castelo, M. Silva, A. Goncalves, L. Branco, P. Coelho, N. Banazol, E. Pinto, P. Bras, V. Ferreira, J. Fragata, R. Ferreira (Lisbon, PT)

Doppler Echocardiography

Prognostic impact of pulmonary arterial wave reflection in heart failure. P1528
H. Hayama, T. Uejima, J. Cho, L. Takahashi, H. Hara, Y. Hiroi, G. Hashimoto, M. Masao, M. Nakamura (Tokyo, JP)

Impact of the new PH guidelines on echocardiographic definition leading to double demand of right heart catheterization. P1529
C. Fauvel, O. Raitiere, J. Burdeau, N. Si Belkacem, F. Bauer (Rouen, FR)

Transesophageal Echocardiography

Dense spontaneous echo contrast and thrombus in patients on new oral anticoagulant and warfarin therapy: a retrospective audit. P1530
A. Thakur, A. Thananjeyan, C. Garrett, M. Reeks, S. Khaja, I. Shugman, U. Premawardhana, K.K. Kadappu (Sydney and Campbelltown, AU)

Changes in mitral annular dynamics with three different types of annuloplasty devices: measurement using three-dimensional transoesophageal echocardiography. P1531
S. Ito, K. Yoshitani, M. Yahagi, Y. Onishi (Suita, JP)

Tissue Doppler, Speckle Tracking and Strain Imaging

Segmental assessment of left ventricle in patients with Fabry's disease. P1532
V. Losi, M.S. Rodolico, D.C. Faro, S. Licciardi, C. Tamburino, I.P. Monte (Catania, IT)

Early evaluation of global longitudinal strain and biomarkers at initiation of trastuzumab treatment in breast cancer patients. P1533
A. Banke, M. Schou, J. Dahl, P. Frederiksen, L. Videbaek, M. Ewertz, S. Cold, J. Moeller (Odense and Copenhagen, DK)

Clinical feasibility of 4D myocardial speckle tracking strain analysis in soccer referee: comparison to 2D strain. P1534
L. Stefani, B.L. Leone, E.Z. Zappelli, L.T. Toncelli, G.G. Galanti (Florence, IT)

Interventricular interaction can result in right ventricular dysfunction in interventricular septum involved myocardial infarction patient. P1535
C.S. Park, A. Gwon, H.S. Ahn, G.H. Kim, J.S. Cho, H.J. Youn (Seoul, KR)

Myocardial work in patients with aortic stenosis before and short term after transcatheter aortic valve replacement. P1537
R. Jasaityte, A. Thiele, L.P. Ernst, G. Baldenhofer, S. Spethmann, M. Laule, H. Dreger, K. Stangl, F. Knebel (berlin, DE)

Light exercise may induce an increase in the propagation velocity of naturally occurring shear waves. P1538
M. Strachinaru, L.B.H. Keijzer, D.J. Bowen, M.L. Geleijnse, A.F.W. Van Der Steen, J.G. Bosch, N. De Jong (Rotterdam, NL)

Role of global longitudinal strain diastolic index in assessment of coronary artery disease in patients with stable angina and normal or borderline ejection fraction. P1539
M.I. Bolog, M. Dumitrescu, E. Pacuraru, F. Romanoschi, A. Rapa (Bucharest, RO)

- Imaging parameters vs. operator dependence of global longitudinal strain values. P1540
H. Blessberger, J. Bergler-Klein, S. Graf, B. Syeda, H. Wagner, J. Kammler, C. Steinwender, T. Binder (Linz and Vienna, AT)
- Left ventricular global longitudinal strain can predict the risk of ventricular arrhythmias in hypertrophic cardiomyopathy patients with preserved left ventricle function. P1541
V. Marinho, P. Alves, C. Domingues, J. Ferreira, J. Milner, N. Antonio, R. Martins, L. Elvas, F. Goncalves, L. Goncalves (Coimbra, PT)
- Reference values for multilayer longitudinal strain in children: preliminary findings from healthy individuals. P1542
M. Chinali, A.M. De Roberto, C. Esposito, A. Del Pasqua, M. Iacomino, P. Ciliberti, M. Galderisi, G. Rinelli (Rome and Naples, IT)
- The assessment of regional myocardial strain in classifying amyloid cardiomyopathy. P1543
P. Geenty, S. Shivapathan, T. Deshmukh, P. Brown, A. Boyd, M. Taylor, F. Kwok, M. Altman, D. Richards, G. Stewart, L. Thomas (Sydney, AU)
- Independent prognostic significance of non invasive left atrial stiffness in outpatients with heart failure and reduced ejection fraction. P1544
I. Bytyci, N. Riccardo, A. Bajraktari, M. Mazzola, G. Bajraktari, M. Henein, F.L. Dini (Umea, SE; Pisa, IT; Pristina, XK)
- Predictors of survival in patients with pulmonary hypertension receiving specific vasodilator therapy. P1545
R. Enache, D.N. Radu, R. Badea, L. Predescu, P. Platon, A. Calin, C.C. Beladan, M. Rosca, C. Ginhina, I.M. Coman, B.A. Popescu (Bucharest, RO)
- Reproducibility of right atrial myocardial deformation by two-dimensional speckle tracking. P1546
K. Shiino, Y. Mori, N. Kawasaki, C. Nakashima, M. Nakashima, Y. Nagahara, S. Kan (Nagoya, JP)
- Left ventricular papillary muscle strain as an indicator of hypertrophic cardiomyopathy. P1547
M. Ikeda, Y. Kajikawa, M. Hirota, A. Ueda (Fukuyama, JP)
- Changes in left ventricular deformation with weight loss in obese adolescents with intellectual and developmental delays (IDD). P1548
D. Forsha, L. Ptomey, T. Johnson, N. Goth, L. Kuzava, R. France, M. Kathol, M. Artman, J. Donnelly (Kansas City, US)
- The quantitative value of PSI and time interval between AV closure and regional peak longitudinal strain in the assessment of CAD severity by the use of resting 2D ST_TTE. P1549
S. Farooq Al Kareem, H. Ali Farhan Al Farhanal, Y. Abdul Raheem (Najaf and Baghdad, IQ)
- Stress Echocardiography**
- Detection of symptom related coronary arteries in patients with coronary artery disease by 4D stress echo with adenosine triphosphate. P1550
N. Nelassov, M. Morgunov, N. Doltmurzieva, R. Sidorov, E. Arzumanjan, D. Safonov, A. Nechaeva, E. Kreneva, O. Eroshenko (RostovonDon, RU)
- Exercise echocardiographic determinants of exercise tolerance in aortic stenosis. P1551
P. Fazendas, A. G. Francisco, A. G. Manuel, H. Pereira, A. G. Almeida (Almada and Lisbon, PT)
- Dobutamine stress echocardiography as a screening tool for coronary artery disease detection in patients with end-stage liver disease awaiting transplantation. P1552
C. Masoura, M. Bonou, C. Kapelios, D. Dambasis, M. Skouloudi, J. Barbetseas (Athens, GR)
- Regional peak systolic longitudinal strain during dipyridamole stress echocardiography in patients with normokinetic response determined by visual assessment. P1553
K. Wierzbowska-Drabik, J.D. Kasprzak, M. Sobczak, N. Gaibazzi, E. Picano (Lodz, PL; Parma and Pisa, IT)
- Assessment of functional mitral regurgitation with leg lift and exercise echocardiography using the average pixel intensity method. P1554
V. Kamoen, M. El Haddad, T. De Backer, F. Timmermans (Gent, BE)

Delta mapse: an easy-to-use tool to evaluate coronary artery stenosis during dypiridamole pharmacological stress echocardiography.

P1555

L. Moderato, S.M. Binno, G. Pastorini, C. Dallospedale, G. Benatti, D. Lazzeroni, M. Piepoli, D. Aschieri, G.Q. Villani (Piacenza, Parma and Milan, IT)

Significance of combined cardiopulmonary and echocardiographic stress test to distinguish the hemodynamic and metabolic responses of hypertensive patients with or without heart failure.

P1556

N.R. Pugliese, M. Mazzola, N. De Biase, A. Natali, L. Gargani, R. Pedrinelli, F.L. Dini (Pisa, IT)

3D Echocardiography

Predictive significance of right ventricle dysfunction on clinical outcome in patients with HFpEF.

P1557

V.I. Skidan, E.V. Rosseykin, E.N. Pavlyukova, G.P. Nartsissova (Khabarovsk, TOMSK and Novosibirsk, RU)

Diagnosis and prediction of late cardiotoxicity in non Hodgkin's lymphoma by 3D echocardiography, vascular ultrasound, and cardiac biomarkers.

P1558

D. Mihalcea, A. Balinisteanu, G. Cosmulescu, A.M. Vladareanu, D. Vinereanu (Bucharest, RO)

3D echocardiography improves the agreement between left ventricular and right ventricular stroke volumes in healthy individuals.

P1559

A.P. Pilalidou, V.K. Kantartzi, C.A. Adamopoulos, L.Z. Zitiridou, M.D. Dimtsa, S.S. Sotiriou, A.K. Karakanas, N.S. Stamatiadis, V.M. Moschovidis, N.K. Koutavas, I.Z. Zaravalis, M.K. Konstantinidou, C.G. Gogos, I.S. Styliadis, V.S. Sachpekidis (Thessaloniki, GR)

Acute changes of mitral annular dimensions after transcatheter egde-to-edgerepair: an indirect annuloplasty method?

P1560

K. Papadopoulos, I. Ikonmidis, M. Chrissoheris, A. Chalapas, P. Kourkovelis, G. Pattakos, P. Vardas, K. Spargias (Athens, GR)

Three-dimensional speckle-tracking echocardiography-derived normal reference values of left atrial volumes and volume-based functional properties in healthy adults.

P1561

A. Nemes, A. Kormanyos, P. Domsik, A. Kalapos, N. Ambrus, C. Lengyel, T. Forster (Szeged, HU)

Normal reference values of three-dimensional speckle-tracking echocardiography-derived right atrial volumes and volume-based functional properties in healthy adult subjects.

P1562

A. Nemes, A. Kormanyos, P. Domsik, A. Kalapos, N. Ambrus, C. Lengyel, T. Forster (Szeged, HU)

Intraoperative and Interventional Echocardiography

A new dimension in patent foramen ovale size estimation.

P1563

L. Demulier, B.P. Paelinck, I. Coomans, D. Hemelsoet, J. De Backer, L. Campens, D. De Wolf (Gent and Edegem, BE)

Changes in coronary flow velocity measuring during coronary bypass grafting can predict elevation of cardiac troponin.

P1564

A. Zagatina, M. Novikov, N. Zhuravskaya, V. Balakhonov, D. Shmatov (Saint Petersburg, RU)

Echocardiography, Other

2D echocardiographic nomograms for athletes (from young to master): an overview and critical review.

P1565

M. Cantinotti, N. Assanta, A. D'andrea, F. D'ascenzi, E. Franchi, G. Santoro, M. Galderisi (Massa, Salerno, Siena and Naples, IT)

Evaluation of haptic feedback for interaction with volumetric image data in virtual reality.

P1566

S. Deng, E. Singh, G. Wheeler, K. Pushparajah, J. A. Schnabel, J. M. Simpson, A. Gomez Herrero (London, GB)

Left atrial function - association with left ventriculoarterial function in hypertensive patients.

P1567

N. Georgieva, A. Borizanov, Petkova, E. Kinova, A. Goudev (Sofia, BG)

Echocardiographic changes and ventricular mechanics in the indeterminate form of chagas disease.

P1568

J.M. Del Castillo, C. Mazzarollo, J. V. Diniz, K. B. Oliveira, D. C. L. Araujo, M. P. C. Alencar, E.S. Albuquerque, A. D. M. Sena, D. Brindeiro-Filho, C. A. M. Silveira (Recife, BR)

Left ventricle structure and function relations with renin-angiotensin-aldosterone system activity and plasma markers of fibrosis in patients with ACS underwent PCI.

P1569

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

Evaluation of The Echocardiographic Parameters of Patients Enrolled to The CZECH-ICIT Study.

P1570

H. Poloczko, J. Krejci, P. Hude, E. Ozabalova, J. Godava, T. Honek, L. Spinarova, S. Belaskova (Brno, CZ)

Echocardiograms on Twitter: the good, the bad and the ugly.

P1571

N. Irenji, C. Mcaloon (Birmingham, GB)

Imaging: Cardiac Dimensions, Volume, and Mass

The role of 3D echocardiography in the evaluation of left ventricular remodeling.

P1572

O. Guseva, O. Guseva, O. Mamaeva, N. Pavlova, D. Pavlov, M. Mitusova, A. Podlesov, I. Evsikova, S. Strelyukhina, S. Lebedeva, S. Scherbak (Saint-Petersburg, RU)

Imaging: Systolic and Diastolic Function

Late recovery of left ventricular function in patients with non-severe ischemic mitral regurgitation and multivessel disease qualified to cardiosurgery treatment.

P1573

R. Piatkowski, J. Kochanowski, M. Budnik, M. Grabowski, P. Scislo, D.A. Kosior, G. Opolski (Warsaw, PL)

Imaging: Valve Disease

Variation in myocardial work performance after surgical and transcatheter aortic valve replacement: A pilot echocardiographic study.

P1574

N. Hatam, S. Donuru, G. Musetti, S.H. Lotfi, K. Spetsotaki, H. Steffen, R. Autschbach, R. Zayat (Aachen and Solingen, DE)

Preserved myocardial work efficiency after transcatheter aortic valve implantation-induced left bundle branch block.

P1575

L.G. Klæboe, P.H. Brekke, K.H. Haugaa, T. Edvardsen (Oslo, NO)

Exercise echocardiography in asymptomatic or mildly symptomatic patients with moderate or severe aortic stenosis.

P1576

J.C. Peteiro Vazquez, A. Bouzas-Mosquera, A. Varela-Cancelo, J. Brouillon, J.M. Vazquez-Rodriguez (A Coruna, ES)

Mitral regurgitant 'splay': an important clue to severity of regurgitation.

P1577

P.C. Wiener, E. Friend, R. Bhargava, L. Kadem, G. Pressman (Philadelphia, US; Montreal, CA)

The prognostic value of left ventricle longitudinal strain and cardiac biomarkers in asymptomatic patients with chronic severe aortic regurgitation.

P1578

R. Verseckaitė, D. Vaiciulienė, J. Laukaitienė, R. Jonkaitienė, V. Mizariene, R. Jurkevicius (Kaunas, LT)

Detection of mechanical prosthetic valve dysfunction: an integrated multimodality imaging approach.

P1579

L. Fusini, M. Muratori, G. Teruzzi, N. Corrieri, E. Innocenti, G. Tamborini, M. Mapelli, S. Ghulam Ali, F. Alamanni, P. Montorsi, M. Pepi (Milan, IT)

Global regurgitant volume - approaching the critical mass in valvular-driven heart failure.

P1580

G. Spinka, P. Bartko, H. Arfsten, G. Heitzinger, N. Pavo, S. Kastl, S. Prausmueller, G. Strunk, J. Mascherbauer, C. Hengstenberg, M. Huelsmann, G. Goliasch (Vienna, AT)

Imaging: Arrhythmias

The global myocardial work index is a powerful predictor of major arrhythmic events in patients with organic heart disease and reduced left ventricular ejection fraction.

P1581

M. Previtero, G. Sammarco, D. Genovese, D. Azzolina, R. M. Tenaglia, N. Ruozzi, C. Palermo, S. Iliceto, D. Muraru, L. P. Badano (Padua and Milan, IT)

Outcomes, predictors and treatment of intraatrial reentrant tachycardias in Adult with Congenital Heart Disease.

P1582

E. Cambronero Cortinas, P. Moratalla-Haro, A.E. Gonzalez-Garcia, P. Avila-Alonso, M. Bret-Zurita, N. Rivero-Jimenez, R. Peinado-Peinado, J.M. Oliver-Ruiz (London, GB; Albacete and Madrid, ES)

Imaging: Heart Failure

- Usefulness of remote intrathoracic impedance alerts for echo-guided CRT optimization. P1583
M. Appignani, T. Salvatore, E. Di Girolamo (Chieti, IT)
- Characteristics of a new subgroup in chronic heart failure: heart failure with mid-range ejection fraction (HFmrEF). P1584
V. Alberts, C. Weytjens, B. Cosijns (Brussels, BE)
- Cardiac magnetic resonance estimated extracellular volume fraction, but not native T1 mapping, detects scar in patients referred for cardiac resynchronization therapy. P1585
C. Kjellstad Larsen, J. Duchenne, E. Galli, J.M. Aalen, E. Kongsgaard, E. Lyseggen, P.A. Sirnes, J. Bogaert, C. Linde, M. Penicka, E. Donal, J.U. Voigt, O.A. Smiseth, E. Hopp (Oslo and Moss, NO; Leuven and Aalst, BE; Rennes, FR; Stockholm, SE)
- Lung ultrasound and left atrial deformation analysis: a promising methods for the diagnosis of heart failure with preserved ejection fraction. P1586
G. Agoston, L. Gargani, I. Szabo, B. Illes, A. Varga (Szeged, HU; Pisa, IT; Targu Mures, RO)

Imaging: Coronary Artery Disease

- Echocardiographic estimation of the impact of long-term treatment with Trimetazidine on myocardial dysfunction in patients with ST elevation myocardial infarction. P1587
T. Svanidze, T. Saralidze, I. Mamatsashvili, T. Bediashvili (Tbilisi, GE)
- Micro rna expression profiling may predict cardiac remodeling after stemi. P1588
I. Ikonomidis, D. Vlastos, S. Katsanos, M. Gazouli, J. Thymis, C. Triantafyllou, M. Varoudi, I. Andreadou, H. Triantafyllidi, G. Makavos, A. Kapelouzou, A.R. Vrettou, A. Frogoudaki, D. Cokkinos, E.K. Iliodromitis (Athens, GR)
- Yield of invasive coronary angiography following the UK NICE 2016 guideline expansion of CT coronary angiography. P1589
S. Fyyaz, J. Hudson, O. Olabintan, A. Katsigris, S. David, S. Plein, K. Alfakih (London and Leeds, GB)

Imaging: Acute Coronary Syndromes

- Regional differences in longitudinal strain and response to adenosine stress in patients with myocardial infarction and ST-segment elevation. Results from Extreme trial. P1590
L. Manfredonia, G. Locorotondo, F. Graziani, S.E. Ravenna, E. Ruscio, M. Filice, G. Ingrassiotta, F. Palma, E. Addamo, A. Lombardo, G.A. Lanza, F. Crea (Rome, IT)
- Accuracy of two-dimensional speckle tracking echocardiography for the detection of significant coronary artery disease in patients with suspected acute coronary syndrome. P1591
A.M. Anwar, A. R.A.H.M. Elhadary, M. Elbaz, W.A.E.L. Attia, I.B.R.A.H.I. Faragallah (Jeddah, SA; cairo, EG)

Imaging: Myocardial Disease

- Papillary-annular continuum is a dynamic component of obstruction in outflow tract of left ventricle in patients with hypertrophic cardiomyopathy. P1592
E.N. Pavlyukova, A.V. Evtushenko, A.F. Kanev, R.S. Karpov (Tomsk and Kemerovo, RU)
- Myocardial work in a cohort of systemic sclerosis patients. P1593
S.L. Magda, E.C. Popa, R. Rimbaz, A.M. Gheorghiu, A.C. Ciobanu, D. Vinereanu (Bucharest, RO)
- Relationship between left ventricular morphology and systolic performance and coronary microcirculatory dysfunction in hypertrophic cardiomyopathy. P1594
S. Aguiar Rosa, L. Branco, A. Galrinho, A. Fiarresga, L. Lopes, M. Celas, F. Silva, A.F. Carvalho, M. Mota Carmo, R. Cruz Ferreira (Lisbon, PT; London, GB)
- Prognostic role of late gadolinium enhancement for sudden cardiac death risk in non-ischemic dilated cardiomyopathy. P1595
I. Rodriguez Sanchez, J.J. Onaindia, V. Gomez, U. Aguirre Larrakoetxea, S. Velasco, A. Urkullu, A. Ullate, A. Capelastegui, E. Astigarraga, J. Florido, R. Natividad, N. Garcia Ibarrondo, C. Goena, I. Rilo (Galdakao, Galdacano, Baracaldo, Bilbao, Mendara and Donostia, ES)

Imaging: Congenital Heart Disease

- Pulmonary hypertension in cardiology practice: clinical echocardiographic evaluation. P1596
A. Legkonogov (Simferopol, RU)
- 15-year follow-up of regional right and left ventricular function after the Senning operation: a colour-Doppler myocardial imaging study. P1597
A. Moya, L. Roggen, E. Troost, P. De Meester, W. Budts, A. Van De Bruaene (Leuven, BE)
- Ruptured Sinus of Valsalva: clinical and echocardiographic features at presentation and long-term results after surgical and percutaneous repair. P1598
F. Fusco, M. Castro, M. Rigby, D. Shore, G. Scognamiglio, M. Gatzoulis, W. Li (London, GB; Naples, IT)
- Longue term outcome after surgical repair of complete atrioventricular septal defect: 2D versus 3D echocardiographic evaluation. P1599
C. Ciuca, E. Angeli, L. Careddu, M. Di Dio, F. Petridis, L. Ragni, T. Hasan, A. Donti, D. Gargiulo, A. Balducci (Bologna, IT)

Imaging: Aortic Disease

- Aortic dilatation in patients with chronic descending aorta dissection is related to maximum false-lumen systolic flow deceleration rate as evaluated by 4D-flow MRI. P1600
A. Ruiz Munoz, A. Guala, G. Teixido-Tura, L. Dux-Santoy, A. Sao-Aviles, A. Lopez-Sainz, C. Granato, L. Servato, G. Casas, T. Gonzalez-Alujas, L. La Mura, L. Galian, I. Ferreira, A. Evangelista, J.F. Rodriguez-Palomares (Barcelona, ES)
- Relationship between aortic distensibility and aortic regurgitation assessed by CMR in bicuspid valve patients. P1601
L. La Mura, G. Teixido-Tura, A. Guala, A. Ruiz-Munoz, A. Lopez Sainz, F. Valente, M. Pisaniello, S. Strada, C. Granato, L. Galian Gay, T. Gonzalez-Alujas, M. L. Servato, I. Ferreira, J. F. Rodriguez-Palomares, A. Evangelista (Barcelona, ES)

Cross-Modality and Multi-Modality Imaging, Other

- An adult with mitochondrial cardiomyopathy. P1602
A. Kandil, J. Daniel, R. Nata, P. Felix (King's Lynn, GB)
- Changes of cardiac function in cirrhotic patients after liver transplantation. P1603
H.M. Kim, H.K. Kim, J.H. Lee, E.A. Park, J.B. Park, S.P. Lee, Y.J. Kim, D.W. Sohn, Y.B. Lee, Y.J. Kim, J.H. Yoon (Incheon and Seoul, KR)
- T1 mapping in asymptomatic patients with extracardiac sarcoidosis. P1604
R. Panovsky, M. Doubkova, T. Holecek, J. Machal, V. Feitova, L. Masarova, L. Opatril, V. Kincl (Brno, CZ)

Saturday 7 December



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08:30 - 10:00 SYMPOSIUM STRAUSS

007 at work: unmasking cardiac amyloidosis in your patient!
Chairperson(s): B. Michalski (Ksawerow, PL); W. Jaber (Cleveland, US)

- 08:30 › Dr No: no myocardial hypertrophy can go unexplained – amyloidosis red flags! 1605
G. Abushahba (Doha, QA)
- 08:52 › GoldenEye: what and when cardiac MRI can see more. 1606
G. Vinco (Verona, IT)
- 09:15 › Casino Royale: are we able to predict prognosis? 1607
C. Santoro (Naples, IT)
- 09:37 › License to kill: a campaign for the use of longitudinal strain! 1608
JP. Debonnaire (Brugge, BE)

08:30 - 10:00 TEACHING COURSE HAYDN

Standard and advanced echocardiographic evaluation in cardiomyopathies
Chairperson(s): S. Caselli (Zurich, CH); P. Colonna (Bari, IT)

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

- 08:30 › Physiologic vs pathologic hypertrophy. 1609
A. D'Andrea (Naples, IT)
- 08:52 › Hypertrophic cardiomyopathy. 1610
X. N. Cardim (Lisbon, PT)
- 09:15 › Infiltrative diseases. 1611
R.O. Jurcut (Bucharest, RO)
- 09:37 › Storage diseases. 1612
A. Linhart (Prague, CZ)

08:30 - 10:00 SYMPOSIUM STEINER

Cardiovascular imaging in infectious cardiac diseases

Joint session with the Cardiovascular Imaging Department of the Brazilian Society of Cardiology (DIC)
Chairperson(s): M.V. Resende (Sao Paulo, BR); C. Hengstenberg (Wien, AT)

- 08:30 › Infective myocarditis and endocarditis: state of the art. 1613
P.A. Erba (Pisa, IT)
- 08:52 › Infective endocarditis: the role of imaging. 1614
J. Van Melle (Groningen, NL)
- 09:15 › Infective cardiovascular diseases outside Europe. 1615
M. Vieira (Sao Paulo, BR)
- 09:37 › Chagas disease: current status. 1616
A.L.C. Almeida (Feira De Santana, BR)

Morning Sessions

08:30 - 10:00 SYMPOSIUM SCHULZ

Machine learning: how to implement it into my practice?



Joint session with the ESC Working Group on e-Cardiology

Chairperson(s): P.P. Sengupta (Morgantown, US); R. Nijveldt (Nijmegen, NL)

- 08:30 › Automatic image quality control. 1617
M. Tabassian (Leuven, BE)
- 08:52 › Processing large hospital databases. 1618
L. Bousset (Lyon, FR)
- 09:15 › End-to-end pipelines: are we there yet? 1619
R. Deo (San Francisco, US)
- 09:37 › Chagas disease: current status. 1620
M. Debruijne (Rotterdam, NL)

08:30 - 10:00 SYMPOSIUM MAHLER

How to image and when to treat the tricuspid valves Joint with Poland



Joint session with the Polish Cardiac Society

Chairperson(s): F.F. Faletra (Lugano, CH); J.D. Kasprzak (Lodz, PL)

- 08:30 › How to quantify tricuspid regurgitation? 1621
P. Lipiec (Lodz, PL)
- 08:52 › Right ventricular function in tricuspid valve diseases. 1622
P. Szymanski (Warszawa, PL)
- 09:15 › Tricuspid valves - all about 3D echo? 1623
L.P. Badano (Padova, IT)
- 09:37 › When and how to treat tricuspid regurgitation? 1624
H. Soliman Aboumarie (London, GB)

08:30 - 10:00 SPECIAL SESSION AGORA

Hightech corner session 2 Artificial Intelligence for dummies



Chairperson(s): A. Gimelli (Pisa, IT); E. Donal (Rennes, FR)

2019 trends and new technologies in echocardiography.

- 08:30 › Artificial Intelligence for dummies. 1625
W. Kosmala (Wroclaw, PL)
- 08:48 › Discussion/Q&A.
- 08:54 › Which models for myocardial work analysis. 1626
V. Le Rolle (Rennes, FR)
- 09:12 › Discussion/Q&A.
- 09:16 › What does mean digital health in echocardiography? 1627
To be announced
- 09:34 › Discussion/Q&A.
- 09:38 › Clustering Strain curves : does it help? 1628
B. Bijmens (Barcelona, ES)
- 09:56 › Discussion/Q&A.

10:00 - 11:00

SPECIAL SESSION

AGORA

Hightech corner session 3 - New concepts in echocardiography**Chairperson(s): I. Simova (Sofia, BG); R. Steeds (Birmingham, GB)****2019 trends and new technologies in echocardiography.**

10:00 › Flow rate in the aortic stenosis.

R.S. Khattar (London, GB)

1629

10:15 › Discussion/Q&A.

10:20 › Ultrafast echocardiography: current and future applications.

M. Pernot (Bordeaux, FR)

1630

10:35 › Discussion/Q&A.

10:30 › Theranostics in contrast echocardiography.

W. Mathias Jr (Sao Paulo, BR)

1631

10:55 › Discussion/Q&A.

10:00 - 11:00

MODERATED POSTERS

MODERATED EPOSTERS 1

Interventional echocardiography**Chairperson(s): G. Karatasakis (Athens, GR); S. Loizos (Athens, GR)***Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 08:30 - 12:30.**Presentation and discussion moderated by the chairpersons take place between 10:00 - 11:00.*

Final non-invasive echo-guided assessment of left atrial pressure after percutaneous edge-to-edge procedure for mitral regurgitation.

1633

M. Gavazzoni, M.Z. Zuber, A.P. Pozzoli, M.T. Taramasso, F.M. Maisano (Zurich, CH)

3D transoesophageal echocardiography in detection of anterior leaflet laceration during mitralclip implantation.

1634

M. Mariani, A.G. Cerillo, S. Maffei, F. Marchi, G. Benedetti, L. Zezza, E. Cerone, U. Paradossi, S. Sorbo, F. Pizzino, S. Chiappino, G. Trianni, A. Al Jabri, M. Ravani, S. Berti (Massa and Florence, IT)

Catch me if you can: a rare case of two-staged MitraClip detachment.

1635

M.G. Bucci, M. Previtali, M.C. Araujo Dos Anjos, G. Binda, A. Mazzola, F. Airolidi, D. Tavano, I. Michev, M. Bianchi, D. Vicinelli, G. Ambrosio, S. De Servi (Milan and Perugia, IT)

Endomyocardial biopsy of right atrial mass with unfortunate consequence of right-to-left shunt.

1636

K.H.K. Kam, D.R. Au, P.R.O.F. Lee (Hong Kong, HK)

Percutaneous treatment of severe tricuspid regurgitation in a 'bicuspid' tricuspid valve.

1637

L. Safi, T. Pasala, A. Shah, Y. Dudi, C. Ruiz (Hackensack, US)

A case of capturing changes in interatrial blood flow and anatomical structure during percutaneous PFO closure with platypnea orthodeoxia syndrome using intra-cardiac echocardiography.

1638

G. Hashimoto, S. Ide, H. Hayama, K. Makino, T. Otsuka, M. Suzuki, R. Iijima, H. Hara, M. Moroi, M. Nakamura (Tokyo, JP)

Echocardiographic photorealistic imaging of leiomyomatosis intravascularis.

1639

M. Budnik, P. Czub, F. Majstrak, J. Kochanowski, P. Scislo, G. Opolski (Warsaw, PL)

10:00 - 11:00

MODERATED POSTERS

MODERATED EPOSTERS 2

Multimodality imaging in valvular heart disease**Chairperson(s): D. Pellerin (London, GB); A. Ionescu (Swansea, GB)**

Moderated ePosters are on display at their assigned Moderated Poster plasma screen from 08:30 - 12:30.
Presentation and discussion moderated by the chairpersons take place between 10:00-11:00.

- Pulmonary valve in carcinoid disease: be suspicious of functional assessment. 1640
A.L. Gamarra Lobato, A.M. Rojas, A. Cecconi, L. Dominguez, A. Benedicto, G. Diego, M.T. Nogales, E. Monguio, D. Munoz, J. Perich, A. Montes, C. De Rueda, C. Jimenez, L.J. Jimenez, F. Alfonso (Madrid, ES)
- Bicuspid pulmonary valve - an unusual cause of dilated pulmonary artery. 1641
S. Qayyum, J. Sehmi, D. Auger, A. Griguer, P. Jain, M. Khan, N. Keenan (Greater London, GB)
- Mitral annulus disjunction, a rare form of focal arrhythmogenic cardiomyopathy. 1642
A. Nagy, A. Apor, C.S. Czimbalmos, N. Szegedi, A. Toth, H. Vago, D. Becker, L. Geller, B. Merkely (Budapest, HU)
- Unusual management of dislodged TAVR prosthesis, Nightmare in Cath lab. 1644
A. Alnabti, G. Abushahba, S. Abujalala, E. Khalifa, A.M. Alkhulaifi, C. Carr (Doha, QA)
- Unexpected aortic bioprosthetic valve thrombosis. 1645
J. Ramos Jimenez, M. Pascual Izco, A. Carvelli, D. Kristo, R. Hinojar Baydes, J.D. Vega Sanchez, J.J. Jimenez Nacher, J.L. Moya Mur, A. Ayala, A. Garcia, A. Gonzalez, J.L. Zamorano Gomez, C.Fernandez Golfín (Madrid, ES)
- Complicated aortic prosthetic valve endocarditis. 1646
M. Do Lago Palacio Estrela, M.G. Paiva, R.L. Ferreira, A.S.L. Gazola, P.S.C. Pedreira, C.W.O. Bermudez, R. Murakami, E.C.K. Pitombeira, A.G. Oliveira, S.M.C. Lira, M.C.C. Gomes, G.M. Silveira, M.P. Wetten, T.C.A. Rotta, L.C.F. Passarelli (Sao Paulo, BR)

10:10 - 10:55

HOW-TO SESSION

STRAUSS

How to make decisions in ICU with the help of Echo**Chairperson(s): S. Price (London, GB)**

How-to session provides 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.

- 10:10 › Presenter: 1647
H. Soliman Aboumarie (London, GB)

10:10 - 10:55

TEACHING COURSE

SCHUBERT 6

Last but not least**Chairperson(s): M. Van Der Hoogerstraete (Brussels, BE); A Sozzi (Milan, IT)**

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

- 10:10 › The right ventricle. 1648
E. Surkova (London, GB)
- 10:32 › How to report results. 1649
E. Surkova (London, GB)

Morning Sessions

11:00 - 12:30 SPECIAL SESSION STRAUSS

EuroEcho 2019 highlights



Chairperson(s): T. Edvardsen (Oslo, NO); B.A. Popescu (Bucharest, RO)

- | | | |
|---------|---|------|
| 11:00 › | Heart failure.
<i>M. Galderisi (Naples, IT)</i> | 1650 |
| 11:15 › | New technologies.
<i>M. Cikes (Zagreb, HR)</i> | 1651 |
| 11:30 › | Valvular heart disease.
<i>J. Magne (Limoges, FR)</i> | 1652 |
| 11:45 › | Congenital heart disease.
<i>T. Bharucha (Southampton, GB)</i> | 1653 |
| 12:00 › | Acute Cardiac Care.
<i>S. Price (London, GB)</i> | 1654 |
| 12:15 › | Prevention.
<i>L.E. Sade (Ankara, TR)</i> | 1655 |

11:00 - 12:00 SYMPOSIUM HAYDN

Imaging in non ischaemic cardiomyopathy



Joint session with the Association of the Interamerican Society of Cardiology (ECOSIAC)

Chairperson(s): M.S. Casella (Ramos Mejia, AR); M. Miglioranza (Porto Alegre, BR)

- | | | |
|---------|--|------|
| 11:00 › | ECOSIAC recommendations for imaging in Chagas disease.
<i>J.A. Lowenstein (Buenos Aires, AR)</i> | 1656 |
| 11:22 › | Hypereosinophilic cardiomyopathy.
<i>C. Zito (Messina, IT)</i> | 1657 |
| 11:45 › | Storage disease cardiomyopathy.
<i>P. Colonna (Bari, IT)</i> | 1658 |
| 12:07 › | Arrhythmogenic cardiomyopathy: is enough with task force recommendations?
<i>S. Spina (Ramos Mejia, AR)</i> | 1659 |

11:00 - 12:00 SYMPOSIUM STEINER

Bicuspid aortic valve and ascending aorta dilatation



Joint session with the Italian Society of Echocardiography and Cardiovascular Imaging (SIECVI)

Chairperson(s): A. Evangelista Masip (Barcelona, ES); F. Antonini-Canterin (Pordenone, IT)

- | | | |
|---------|---|------|
| 11:00 › | Need for measurement standardisation.
<i>M. Pepi (Milan, IT)</i> | 1660 |
| 11:22 › | A large italian survey the REBECCA registry.
<i>R. Citro (Salerno, IT)</i> | 1661 |
| 11:45 › | Imaging and molecular biomarkers.
<i>X. To be announced (X, FR)</i> | 1662 |
| 12:07 › | Multimodality imaging for optimal surgical timing.
<i>X. To be announced (X, FR)</i> | 1663 |

Morning Sessions

11:00 - 12:00 SYMPOSIUM SCHULZ

What I need to know about right ventricle?



Joint session with the Hungarian Association of Cardiovascular Imaging

Chairperson(s): A.I. Nagy (Budapest, HU); L. Rudski (Cote St Luc, CA)

- 11:00 > How to explore it in echocardiography? 1664
T. Le Tourneau (Nantes, FR)
- 11:22 > Its role in heart failure. 1665
G. Agoston (Szeged, HU)
- 11:45 > Right ventricle and sport. 1666
A. Kovacs (Budapest, HU)
- 12:07 > Arrhythmogenic right ventricular cardiomyopathy. 1667
P. Nihoyannopoulos (London, GB)

11:00 - 12:00 SYMPOSIUM MAHLER

The role of echocardiography in rheumatic disease



Joint session with the Argentina Society of Cardiology

Chairperson(s): S. Baratta (C.A.B.A., AR); E. Galli (Rennes, FR)

- 11:00 > Reumathoid arthritis and aortic valve stenosis. 1668
TV. Volberg (Buenos Aires, AR)
- 11:22 > Antiphospholipid syndrome: how scoring the valve involvement. 1669
A. Rossi (Verona, IT)
- 11:45 > Systemic Lupus Erythematosus: the involvement of the right heart. 1670
F. Cintora (Junin, AR)
- 12:07 > Which role for echocardiography in stratifying prognosis in rheumatic diseases. 1671
L. Hunter (Somerset West, ZA)

11:00 - 12:30 RAPID FIRE ABSTRACTS AGORA

Stress echocardiography in 2020

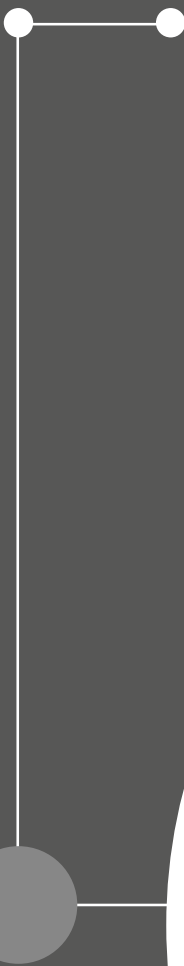
Chairperson(s): R. Sicari (Pisa, IT); Z. Vered (Zerifin, IL)

Fast paced and interactive session with key messages of 10 abstracts.

- 11:00 > Panel of experts: 1672
Q. Ciampi (Benevento, IT); R. Capoulade (Nantes, FR)
- 11:08 > Accuracy and prognostic value of physiologist-led stress echocardiography for coronary disease. 1673
J.N. Khan, T. Griffiths, K. Sandhu, S. Cabezon, C.S. Kwok, S. Baig, T. Naneishvili, V.C.K. Lee, A. Pasricha, E. Robins, P. Kanagala, R. Butler, S. Duckett, G. Heatlie (Coventry and Stoke-on-Trent, GB)
- 11:16 > Is Arterial hypertension an intermediate step to heart failure with preserved ejection fraction? 1674
N.R. Pugliese, M. Mazzola, I. Fabiani, N. De Biase, A. Natali, L. Gargani, R. Pedrinelli, F.L. Dini (Pisa and Milan, IT)
- 11:24 > ABCDE vasodilator stress echocardiography in non-ischemic heart failure. 1675
N. Kuznetsova, C. Borguezan Daros, H. Zanella, Q. Ciampi, L. Cortigiani, N. Gaibazzi, A. Zagatina, J.L. De Castro E Silva Pretto, A. Djordjevic-Dikic, I. Simova, M. Amor, P.M. Merlo, J. Lowenstein, M.A.R. Torres, E. Picano (moscow and Saint Petersburg, RU; Criciuma, Passo Fundo and Porto Alegre, BR; Mexico City, MX; Benevento, Lucca, Parma and Pisa, IT; Belgrade, RS; Sofia, BG; Buenos Aires, AR)

Morning Sessions

11:32 ›	Prediction of different causes of mortality by exercise echocardiography in women. <i>J.C. Peteiro Vazquez, A. Bouzas-Mosquera, S. Pertega, C. Barbeito-Caamano, F.J. Broullon, J.M. Vazquez-Rodriguez (A Coruna, ES)</i>	1676
11:40 ›	Global longitudinal strain during dobutamine stress echocardiography can predict left ventricular remodeling after anterior wall acute myocardial infarction. <i>T. Onishi, K. Iwakura, A. Okamura, Y. Koyama, K. Inoue, M. Iwamoto, K. Tanaka, H. Nagai, Y. Hirao, T. Oka, N. Tanaka, K. Fujii (Osaka, JP)</i>	1677
11:49 ›	Impact of anemia in exercise stress echocardiography: effects on exercise capacity and stress testing safety. <i>J. Bird, K. Morant, G. Kane, R. Mccully, P. Pellikka, S.A. Luis (Rochester, US)</i>	1678
11:57 ›	E/e predicts exercise capacity and adverse cardiovascular outcomes in patients with chronic kidney disease. <i>G. Gan, K. Kadappu, A. Bhat, F. Fernandez, H. Chen, S. Eshoo, L. Thomas (Sydney, AU)</i>	1679
12:05 ›	Left ventricular filling pressure assessment with exercise stress echocardiography in patients with non-valvular atrial fibrillation. <i>K. Lara-Breitinger, M.W. Ullah, C.L. Luong, R. Padang, J.K. Oh, P.A. Pellikka, R.B. Mccully, G.C. Kane (Rochester, US)</i>	1680
12:13 ›	Carotid screening prior to stress echocardiography, an opportunity to assess cardiovascular risk? <i>M. Matangi, M. Cases, D. Brouillard, A. Johri (Kingston, CA)</i>	1681
12:21 ›	Feasibility of the exercise stress echocardiography for the evaluation of the right heart and pulmonary circulation unit in different clinical conditions: the right heart international network. <i>F. Ferrara, L. Gargani, M. Guazzi, M. D'alto, K. Wierzbowska Drabik, P. Argiento, R. Cocchia, F. Bandera, C. Contaldi, S. Lanero, V. Russo, O. Vriz, A. D'andrea, J.D. Kasprzak, E. Bossone (Salerno, Pisa, San Donato Milanese, Napoli, Naples and Nocera Inferiore, IT; Lodz, PL; Riyadh, SA)</i>	1682

A decorative line consisting of a horizontal segment, a vertical segment, and a horizontal segment, with dots at the ends and intersections.

• Saturday Posters

HIGH SCORE POSTERS:

Look out for these abstracts acknowledged
by the reviewing committee

08:30 - 12:30

POSTER SESSION

POSTER AREA

Clinical case poster session 6

All posters are on display from 08:30 to 12:30.

From 10:00 to 11:00: Meet the presenters by their poster.

Echocardiography

Acute unexplained ventricular septal defect: an unusual cause of acute dyspnea. P1683

Y. Ali, T. Joseph, G. Reeder, C. Rihal, R. Kurmann, N. Anavekar, S. Pislaru (Rochester, US)

Cardiac amyloidosis hits the valve first. P1684

S. Iakovlev, A.I. Kalinskaya (Moscow, RU)

Loeffler endocarditis mimicking myocardial infarction. P1685

A. Cerne Cercek, P. Berden, R. Zbacnik (Ljubljana, SI)

Echocardiography: Technology

Inverted biventricular takotsubo syndrome: early onset in heart transplanted patient. P1686

O. Vriz, M. Al Humeid, M. Adham, B. Al Amro, D. Galzerano, M. Al Admawi, H. Al Sergiani, M. Al Hussein, J. Al Buraiki (Riyadh, SA)

Echocardiography: Systolic and Diastolic Function

When the easiest answer is the right one. P1687

G. Olaru-Lego, L. Predescu, C. Achim, D.N. Radu, C. Ginghina, R. Enache (Bucharest, RO)

Rare cause of acute heart failure in patient with scleroderma. P1688

A.M.F. Ali, A.M. Abo El Soud (Ismailia, EG)

Echocardiography: Valve Disease

Mitral valve prolapse secondary to ischemic cardiomyopathy. P1689

G. Babur Guler, A. Kilicgedik, H. Zencirkiran Agus, G. Kahveci (Istanbul, TR)

Dynamic mitral stenosis and Liebman-Sacks endocarditis associated with primary antiphospholipid syndrome. P1690

M. Rauber, R. Jese, N. Gaspersic, M. Tomsic, M. Bervar, J. Toplisek (Ljubljana, SI)

A case of congenital pulmonary stenosis. P1691

L.L. Buttigieg, K. Yamagata, J. Cassar, M. Pace Bardon, M. Balzan, A. Borg (Msida, MT)

The past returns after 20 years: a case report. P1692

S. Habjan, D. Cantisani, I.S. Scarfo, M.C. Guarneri, G. Semeraro, F. Romeo, L. Cicchini, G. La Canna (Rozzano-Milan, IT)

Mitral valve aneurysm complicating infective endocarditis. P1693

B. Hammad, F.A. Ahmed, A. Elbadry, R. Abayazeed (Alexandria, EG)

Prosthetic mitral valve infective endocarditis complicated by left ventricle to right atrial fistula. P1694

R.M. Abayazeed, H. Shehata, O. Elgebaly, M.A. Abdel-Aziz, M.A. Abdel-Hay (Alexandria, EG)

Echocardiography: Masses and Sources of Emboli

Late mycobacterium abscessus endocarditis, a case report. P1695

L.F. Aguilar-Aguilar, D. Guzman-Ramirez, B.A. Gaxiola-Cadena, S.K. Farias-Vergara (Monterrey, MX),

Intravascular leiomyomatosis with inferior vena cava and intracardiac extension, with severe obstruction to the right ventricle. The fundamental role of transesophageal echocardiography. P1696

Z.Y. Vasquez-Ortiz, A. Guzman Ayon, E.D. Aceves Velazquez, J. Navarrete Garcia, P. Hernandez-Reyes, J. Oseguera Moguel (Mexico City, MX)

A rare case: primary cardiac sarcoma in the left and right atrium presenting with dyspnea due to mitral valvular obstruction.	P1697
<i>S. Akturk, T. S. Tan, M. Mammadov, I. Dincer, C. Erol (Ankara, TR)</i>	
Mitral valve endocarditis in hypertrophic obstructive cardiomyopathy.	P1698
<i>E. Shirka, H. Gjergo, O. Avdullari, A. Goda (Tirana, AL)</i>	
A case of atrial myxoma presenting with acute stroke.	P1699
<i>R. Gray, J. Brassil, N. Jepson (Sydney, AU)</i>	
Recurrent inflammatory myofibroblastic tumor of the right ventricle and pulmonary artery.	P1700
<i>S. Akhunova, R. Dzhordzhikii, A. Rafikov, E. Paschenko, N. Gizatullina (Kazan, RU)</i>	
Bilateral thrombus detection in a patient with atrial paroxysmal fibrillation and asymptomatic massive pulmonary embolism.	P1701
<i>I. Refatllari, A. Banushi, H. Gjergo, A. Goda (Tirana, AL)</i>	
Libman-Sacks endocarditis of the mitral valve combined with right atrial thrombus formation.	P1702
<i>G. Klappacher, D. Beitzke (Vienna, AT)</i>	
Cardiac metastasis of germ cell tumor «like beads» in the right heart chambers and also left atrium.	P1703
<i>A. Wojtkowska, W. Brzozowski, M. Prasal, S. Lukasik, E. Czekajski-Chehab, A. Wysokinski, A. Tomaszewski (Lublin, PL)</i>	
Is mitral stenosis per se worthy of anticoagulation therapy?	P1705
<i>S. Suma, N. Gaibazzi (Parma, IT)</i>	
Transesophageal Echocardiography	
Trilogy of stroke.	P1706
<i>A. Koenig, M. Moser, V. Dannenberg, J. Bergler-Klein, T. Binder, H. Gabriel, M. Schneider (Vienna, AT)</i>	
Transesophageal Echocardiography	
Strain imaging - resolving the diagnostic conundrum of cardiac amyloidosis.	P1707
<i>K. Somarakis, H. Ahmed (Derby, GB)</i>	
Analysis of ventricular mechanics in echo-guided endocardial radiofrequency septal ablation for hypertrophic obstructive cardiomyopathy.	P1708
<i>R.J. Vasquez Orozco, M. Ortiz-Avalos, G. Rodriguez-Diez, J.D. Morales Portano (Mexico City, MX)</i>	
Left atrial strain: a novel prognostic marker in patients with chronic kidney disease.	P1709
<i>G. Gan, K. Kadappu, A. Bhat, F. Fernandez, K. Gu, L. Cai, S. Eshoo, L. Thomas (Sydney, AU)</i>	
Reverse right ventricular remodeling using right ventricular strain and strain rate after mitral clip implantation in functional mitral regurgitation, an echocardiographic study.	P1710
<i>H. Abdo Naeim, O. Amoudi, I. H. Alharbi, A.B.E.E.R. Mahmood, A. Elasar, L. Khedr, M. S. Waleed, R.E.D.A. Abuelatta (Madina, SA)</i>	
Stress Echocardiography	
Exploring the full spectrum of right ventricular exercise contractile reserve among health and disease: a prospective clinical and echocardiography observational multicenter study.	P1711
<i>L. Gargani, N.I.C.O.L.A. Pugliese, F. Bandera, F. Ferrara, M. D'alto, S. Ghio, P. Argiento, A. Moreo, J. Kasprzak, O. Vriz, A. D'andrea, R. Cocchia, G. Agoston, M. Guazzi, E. Bossone (Pisa, San Donato Milanese, Salerno, Naples, Pavia, Milan and Nola, IT; Lodz, PL; Riyadh, SA; Szeged, HU)</i>	

Stress Echocardiography

How the speed and high-level data acquisition of 3D Echocardiography benefitted surgical planning in a complex aortic root abscess case.

P1712

V. Ahluwalia, P. Demetriades, H. Abdelsalam, K. Rai, F. Osman, J. Parmar, J.N. Khan (Coventry, GB)

A case of quadricuspid aortic valve complicated with infective endocarditis diagnosed by 3D transesophageal echocardiography.

P1713

G. Hashimoto, S. Ide, H. Hayama, K. Makino, T. Otsuka, M. Suzuki, R. Iijima, H. Hara, M. Moroi, M. Nakamura (Tokyo, JP)

When the mechanism of mitral regurgitation is unclear, 3D Trans-esophageal echocardiography is the solution.

P1714

N. Thabet, D. Labib, S. Nagy, H. Mahmoud-Elsayed (Aswan and Cairo, EG)

Intraoperative and Interventional Echocardiography

Aortic stenosis with concomitant LVOTO: an alternative treatment to surgery.

P1715

C. Silva, R. Ribeiros, R. Teles, J. Brito, T. Nolasco, A. Oliveira, E. Horta, M. Mendes (Carnaxide, PT)

Aorto-left atrial fistula with left atrium dissection.

P1716

D. Rodrigo Carbonero, U. Estandia, P.M. Perez, C. Perez, A. Cortes, E. Panera (Baracaldo, ES)

Echocardiography, Other

Constrictive pericarditis caused by mansonic schistosomiasis.

P1717

J. M. Castillo, J.V. Diniz, C. Mazzarollo, D.C.L. Araujo, K.B. Oliveira, M.P.C. Alencar, E.S. Albuquerque, A.D.M. Sena, D. Brindeiro-Filho, F.A.A. Granja, C.A.M. Silveira (Recife, BR)

Cross-Modality and Multi-Modality Imaging Topics

Multi-modal imaging characterization of contained aortic subannular rupture after transcatheter aortic valve implantation.

P1718

P. Grilo Diogo, C.X. Resende, A. Nunes, P. Araujo, S. Torres, M. Vasconcelos, P. Almeida, J. Rodrigues, A. Madureira, F. Macedo, M.J. Maciel (Porto, PT)

Imaging: Systolic and Diastolic Function

A rare complication of homozygous sickle cell disease and high output cardiac failure.

P1719

M. Landells, C.J. Mcaloon, R.P. Steeds (Birmingham, GB)

Imaging: Valve Disease

Hammock mitral valve, a challenging echocardiographic diagnosis.

P1720

D. Rodrigo Carbonero, U. Estandia, C. Perez, R. Voces, P. Perez, E. Panera (Baracaldo, ES)

Imaging: Heart Failure

Reversible heart right failure. Pulmonary hypertension induced by Tyrosine Kinase Inhibitors.

P1721

A. Fernandez Valledor, P. Cepas Guillen, M. Izquierdo, P. Vidal, R. Arjona, B. Carbonell, E. Flores Umanzor, D. Lorenzatti, P. Jorda (Barcelona, ES)

Imaging: Acute Coronary Syndromes

Post myocardial infarction pericarditis or subacute left ventricular free wall rupture after acute myocardial infarction: a role of multimodality imaging. P1722

A. Ledakowicz-Polak, M. Kacprzak, K. Szymczyk, M. Zielinska (Lodz, PL)

Spectacular left ventricle post infarction aneurysm. P1723

A. Bednarek, J. Wieczorek, M. Elzbieciak, M. Deja, K. Mizia-Stec (Katowice, PL)

Imaging: Myocardial Disease

Bidimensional echocardiographical radial strain abnormalities mandate differential diagnosis between athlete heart syndrome and incipient genetic cardiomyopathy. P1724

C. Cojocaru, A. Pupaza, D.A. Radu, S. Onciul, R.G. Vatasescu (Bucharest, RO)

Imaging: Pericardial Disease

An easily dismissed suspect. P1725

H. Santos, I. Almeida, H. Miranda, M. Santos, L. Almeida, C. Sa, S. Almeida, C. Sousa, J. Chin, J. Tavares (Barreiro, PT)

Imaging: Congenital Heart Disease

A case of double chamber right ventricle with membranous ventricular septal defect: multimodality approach before and after surgical repair. P1726

M. Y. Mehtap Yeni, I. B. Ibrahim Basarici, N. B. Nermin Bayar, S. A. Sakir Arslan (Isparta and Antalya, TR)

Pulmonary hypertension in a pregnant Women - a rare anatomical aetiology. P1728

J. Grade Santos, F. Ferreira, M. Loureiro, A. Almeida, A. Pereira, D. Repolho, D. Sebaiti, S. Alegria, L. Sousa, S. Almeida, H. Pereira (Almada and Lisbon, PT)

Abnormal course of pulmonary vein causing right heart dilatation. P1729

O.T. Osman, G. Abushahba, W. Francis, S. Elbdri, E. Khalifa (Doha, QA)

Multimodality assessment of complex ventricular septal defect. P1730

M.L. Morrison, S. Kabir, C. Salih, I. Valverde, A. Tometzki, J.M. Simpson (London and Bristol, GB)

Imaging: Aortic Disease

Multiple floating thrombi in aortic arch leading to acute stroke: A case report and systematic review of literature. P1731

M. Mahmood, S. Avula, D.K. Patti, M.S. Khan, H. Singh (Toledo, US)

Cross-Modality and Multi-Modality Imaging, Other

Congenital absence of the inferior vena cava: challenge for catheter ablation of arrhythmias via the femoral vein approach. P1732

R.S. Prisecaru, C. Leatu, O. Purcar, C. Pitis, V. Costache (Sibiu, RO)

Late onset of arrhythmogenic cardiomyopathy, unmasked by myocarditis - when multimodality imaging solves the puzzle. P1733

M.L. Luchian, R. C. Rimbas, C. I. Stoicescu, A.V. Marinescu, A. I. Nicula, D. Vinereanu (Bucharest, RO)

Surprising image in the aortic root, is it zebra ?	P1734
<i>C. Alak, D. Cırgamis, O. Badak, E. Özpeli (Izmir, TR)</i>	
Jellyfish sign, not all echocardiographic findings are related to heart disease.	P1735
<i>A. Lambarri Izaguirre, M. Codina Prat, K. Ugedo Alzaga, R. Candina Urizar, M. Castellanos Alcalde, G. Aurrekoetxea Bajeneta, I. Bravo Martinez, P.M. Mendoza Cuartero, C. Asla Ormaza, D. Caballero Alvarez, A. Manzanal Rey, N. Ibarrodo Garcia, G. Ramirez-Escudero Ugalde, L. Ruiz Gomez, J.M. Ormaetxe Merodio (Bilbao, ES)</i>	
An unexpected cause of ventricular tachycardia in a young patient.	P1736
<i>R. Tomoaia, R.S. Beyer, M. Puiu, A. Dadarlat, F.I. Fringu, D. Gurzau, K.T. Bardos, D.H. Comsa, G. Simu, D. Pop, D. Zdrengea (Cluj Napoca, Cluj-Napoca and Clujnapoca, RO)</i>	

08:30 - 12:30

POSTER SESSION

POSTER AREA

Poster session 6

All posters are on display from 08:30 to 12:30.
From 10:00 to 11:00: Meet the presenters by their poster.

Echocardiography

Echocardiographic estimation of pulmonary artery pressure in young non-complicated patients with type 1 diabetes: results from a singlecenter observational study.	P1737
<i>A. Schiavone, C. Bergamini, M. Trombetta, L. Sabbagh, A. Mantovani, G. Targher, E. Rinaldi, E. Bonora, G. Zoppini (Verona, IT)</i>	
Diastolic function in the transplanted heart: comparison between echocardiography and the invasive assessment.	P1738
<i>F. Loiacono, B.M. Natali, M. Cameli, G. Calonaci, C. Sciacaluga, A. Ibrahim, S. Bernazzali, M. Maccherini, F. D'ascenzi, M. Focardi, S. Mondillo (Siena, IT)</i>	

Echocardiography: Dimensions, Volumes and Mass

Diameter of the pulmonary artery in relation to the ascending aorta: a promising parameter for the diagnosis of pulmonary hypertension.	P1739
<i>M. Schneider, H. Ran, A.M. Pistritto, C. Gerges, H. Heidari, C. Hengstenberg, J. Bergler-Klein, I. Lang, T. Binder, G. Goliash (Vienna, AT; Nanjing, CN; Savona, IT)</i>	
Normal values for TAPSE in the HUNT study of subjects without evidence of heart disease.	P1740
<i>A. Stoylen, H.E. Molmen, H. Dalen (Trondheim and Horten, NO)</i>	
Echocardiographic assessment of rate versus rhythm control strategy in patients with persistent atrial fibrillation.	P1741
<i>R. Piatkowski, D.A. Kosior, J. Kochanowski, M. Szulc (Warsaw, PL)</i>	

Echocardiography: Systolic and Diastolic Function

Occurrence of right ventricle dysfunction in patients with Brugada syndrome: a follow-up study by echocardiography and electrophysiological examination.	P1742
<i>A. Mizumoto, M. Amano, T. Kamakura, S. Hashimoto, E. Oonishi, N. Tanaka, C. Izumi (Osaka, JP)</i>	
The contribution of left atrial dysfunction to exercise intolerance in early heart failure with preserved left ventricular ejection fraction.	P1743
<i>A. Ovchinnikov, A.V. Potekhina, A.A. Borisov, N.M. Ibragimova, E.N. Yushchyuk, V.P. Masenko, F.T. Ageev (Moscow, RU)</i>	
Motion and velocity of the different parts of the AV plane. Relation to site and wall length.	P1744
<i>A. Stoylen, H.E. Molmen, H.E. Dalen (Trondheim and Horten, NO)</i>	

Changes in diastolic function in patients with heart failure with reduced ejection fraction treated with sacubitril/valsartan.	P1745
<i>C. Mas Llado, M.F. Ramis Barcelo, P. Pericas Ramis, C.I. Valadron Sucasas, M. Noris Mora, J.F. Forteza Alberti, L. Pasamar, A. Morcuende, A. Rodriguez Fernandez, R. Gonzalez Codino, V. Peral Disdier (Palma de Mallorca, ES)</i>	
A novel approach to evaluate global systolic cardiac performance through classic Newtonian mechanics.	P1746
<i>P. Marcos-Alberca Moreno, L. Perez De Isla, P. Mahia, F. Islas, J. Palacios, C. Espejo, J.A. De Agustin, A. Rueda, E. Pozo, C. Macaya (Madrid, ES)</i>	
Left atrial strain identifies diastolic dysfunction in children with cardiomyopathies and correlates with invasive LV end-diastolic pressure.	P1747
<i>J. Sabatino, N. Borrelli, M. Aversani, E. Filippini, J. Paredes, M. Josen, S. Prasad, A. Fraisse, C. Indolfi, P. Daubeney, G. Di Salvo (London, GB; Catanzaro, IT)</i>	
Left atrial diastolic and systolic functions modulate the response to the standardised Valsalva maneuver in normal subjects.	P1748
<i>R. Musci, G. Teodone, P. Pollice, A.I. Guaricci, P. Barbier (Bari, IT; Changchun, CN)</i>	
Does treatment with sacubitril/valsartan improve ventricular function?	P1749
<i>M.F. Ramis Barcelo, C. Mas Llado, C.I. Valadron Sucasas, P. Pericas Ramis, A. Morcuende, L. Pasamar, M. Noris Mora, J.F. Forteza Alberti, R. Gonzalez Codino, A. Rodriguez Fernandez, V. Peral Disdier (Palma de Mallorca, ES)</i>	
Association of high-sensitivity troponin elevation and LVEF decline in anthracycline-treated breast cancer patients.	P1750
<i>S. Cardoso Torres, C. Sousa, P. Maia Araujo, J. Simoes, A. Nunes, M. Tavares Silva, R. Pinto, M. Paiva, F. Macedo, M.J. Maciel (Porto, PT)</i>	
Right ventricular dysfunction in heart failure patients with reduced ejection fraction with and without chronic respiratory diseases: A treacherous combination for the ominous outcome?	P1751
<i>K. Hu, D. Liu, M. Kirch, C. Scheffold, F. Liebner, B. Lengenfelder, G. Ertl, S. Frantz, P. Nordbeck (Wurzburg, DE)</i>	
Echocardiography: Valve Disease	
Prognostic role of Multilayer Strain Speckle Tracking Echocardiography in patients with severe aortic stenosis treated with Transcatheter Aortic Valve Implantation.	P1752
<i>S. Cimino, V. Maestrini, S. Monosilio, F. Luongo, M. Neccia, L.I. Birtolo, V. Petronilli, N. Salvi, D. Cantisani, D. Filomena, M. Mocci, S. Quaranta, M. Mancone, F. Fedele, L. Agati (Rome, IT)</i>	
Echocardiographic assessment of prosthetic aortic valve in children.	P1753
<i>P. Barbier, O.A. Annoh, G. Liu, M. Scorsin, S. Moriggia, Z. Song, A. Francescato, A. Piacentini, E. Taylor, K. Desa, M. Lemma (Changchun, CN)</i>	
Regional left ventricular longitudinal myocardial dysfunction in mitral valve prolapse could be primary.	P1754
<i>P. Barbier, O.A. Annoh, G. Liu, M. Scorsin, S. Moriggia, Z. Song, A. Francescato, A. Piacentini, E. Taylor, K. Desa, M. Lemma (Changchun, CN)</i>	
Clinical and echocardiographic outcomes of mitral valve repair surgery.	P1755
<i>P. Garcia Bras, L. Moura Branco, P. Coelho, V. Vaz Ferreira, A. Castelo, A. Galrinho, A.T. Timoteo, N. Banazol, R. Rodrigues, J. Fragata, R.C. Ferreira (Lisbon, PT)</i>	
Predictors of outcome in mitral valve repair surgery.	P1756
<i>P. Garcia Bras, L. Moura Branco, P. Coelho, A. Castelo, V. Vaz Ferreira, A.T. Timoteo, A. Galrinho, N. Banazol, R. Rodrigues, J. Fragata, R.C. Ferreira (Lisbon, PT)</i>	
Novel echocardiographic markers as predictors for left ventricular reverse remodeling one year after edge-to-edge mitral valve repair in patients with functional mitral regurgitation.	P1757
<i>K. Papadopoulos, I. Ikonomidis, M. Chrissoheris, A. Chalapas, P. Kourkovelis, P. Vardas, K. Spargias (Athens, GR)</i>	
Global left ventricular myocardial work efficiency as a prognostic marker for clinical responders one year after edge-to-edge mitral valve repair in patients with functional mitral regurgitation.	P1758
<i>K. Papadopoulos, I. Ikonomidis, M. Chrissoheris, A. Chalapas, P. Kourkovelis, P. Vardas, K. Spargias (Athens, GR)</i>	

How an echocardiologist can work off-line in a personal computer on the echocardiography images at the level of mitral valve?

P1759

M. Karvandi, S. Ranjbar (Tehran and tehran, IR)

Cardiac prognosis of patients with subaortic membrane according to their morphology.

P1760

F.R.E. Graterol Torres, S. Moral, R. Robles, E. Ballesteros, M. Morales, J. Maria Frigola, X. Albert, L. Muntaner, R. Ramos, P. Vilardell, R. Brugada (Girona and Barcelona, ES)

Natural history and outcome of adults with bicuspid aortic valve: a middle-aged french cohort of 541 patients.

P1762

Y. Bohbot, C. Cheng, F. Fay, F. Elmkies, A.L. Gueinheim, C. Tribouilloy (Amiens, FR)

Impact of disproportionate functional mitral regurgitation.

P1763

P.E. Bartko, G. Heitzinger, H. Arfsten, N. Pavo, G. Spinka, S. Prausmueller, M. Andreas, J. Mascherbauer, C. Hengstenberg, M. Huelsmann, G. Goliasch (Vienna, AT)

A unifying concept for the quantitative definition of functional mitral regurgitation.

P1764

P. Bartko, H. Arfsten, G. Heitzinger, N. Pavo, A. Toma, G. Strunk, C. Hengstenberg, M. Huelsmann, G. Goliasch (Vienna, AT)

Echocardiography: Masses and Sources of Emboli

Cardiac myxomas: echocardiographic findings and clinical correlation, a 15-years single-center experience.

P1765

P. Gripari, I. Giambuzzi, L. Fusini, M. Saccocci, V. Mantegazza, G. Tamborini, M. Muratori, G. Ricciardi, M. Zanobini, M. Pepi (Milan, IT)

Doppler Echocardiography

Comparison of left ventricular stroke volume in healthy adults among regions around the world: results from the World Alliance of Societies of Echocardiography (WASE) Normal Values Study.

P1766

T. Miyoshi, K. Addetia, A. Blitz, R. Lang, F. Asch (Washington, DC and Chicago, US; Unterschleissheim, DE)

Tissue Doppler, Speckle Tracking and Strain Imaging

Abnormal longitudinal peak systolic strain in asymptomatic patients with psoriatic arthritis.

P1767

N. Tsigaridas, S. Mantzoukis, S. Mantzoukis, E. Toli, E. Toli, K. Tsimos, K. Tsimos, N. Varsamis, N. Varsamis, M. Gerasimou, M. Gerasimou, M. Gianniki, M. Gianniki, D. Patsouras, D. Patsouras, N. Tsifetaki, N. Tsifetaki (Ioannina, GR)

The value of global longitudinal strain in non-alcoholic steatohepatitis-associated cirrhosis.

P1768

Y. Dimitroglou, C. Aggeli, A. Alexopoulou, T. Alexopoulos, A. Nitsa, I. Apostolou, D. Patsourakos, L. Vasilieva, S.P. Dourakis, D. Tousoulis (Athens, GR)

Levels of serum markers of myocardial injury in patients with ST-elevation myocardial infarction correlate with global left ventricular longitudinal deformation.

P1769

E. Szymczyk, P. Lipiec, B. Michalski, J.D. Kasprzak (Lodz, PL)

Gender differences of the blood pressure effects on early changes of left ventricle mechanics in untreated hypertension.

P1771

W.C. Tsai, H.R. Tsai, M.S. Huang, W.H. Lee (Tainan, TW)

Assesment of total atrial conduction time in patients with atrioventricular nodal reentrant tachycardia with and without drug-induced type 1 Brugada pattern and control subjects.

P1772

U. Kocabas, C. Hasdemir (Istanbul and Izmir, TR)

Cohort of HER2 positive breast cancer and subclinical cardiotoxicity by speckle tracking echocardiography. Does chemotherapy sequence matter?

P1773

A.M. Guzman Ayon, E.D. Aceves Velazquez, A. Armengol Alonso, Z.Y. Vasquez Ortiz (Ciudad de Mexico, MX)

Myocardial work indices in adult patients with repaired aortic coartation.

P1774

A.T. Timoteo, L. Moura Branco, A. Galrinho, R. Ilhao Moreira, L. Sousa, A. Agapito, R. Cruz Ferreira (Lisbon, PT)

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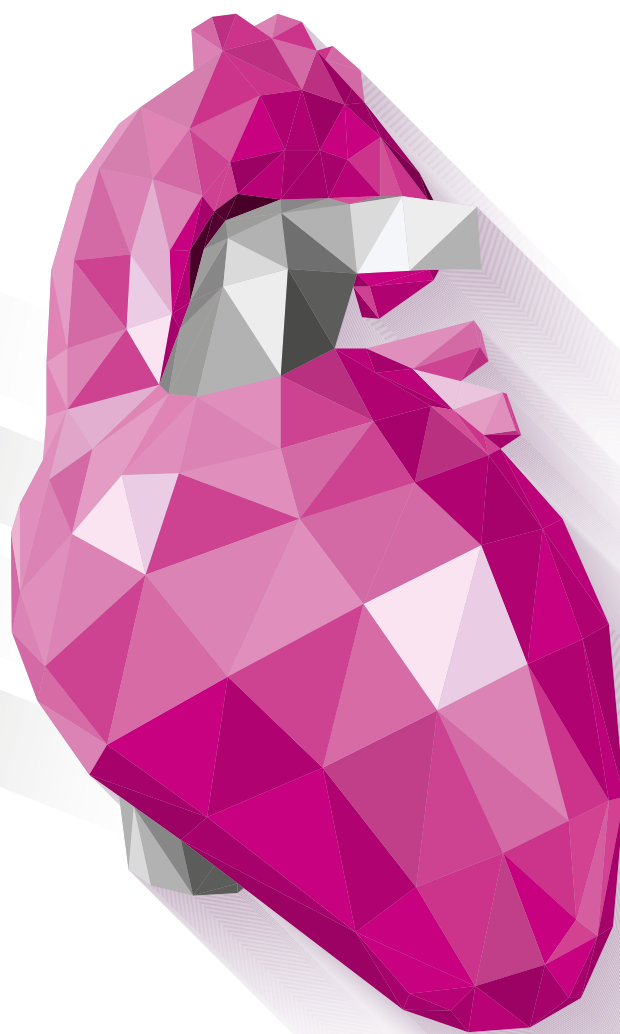
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