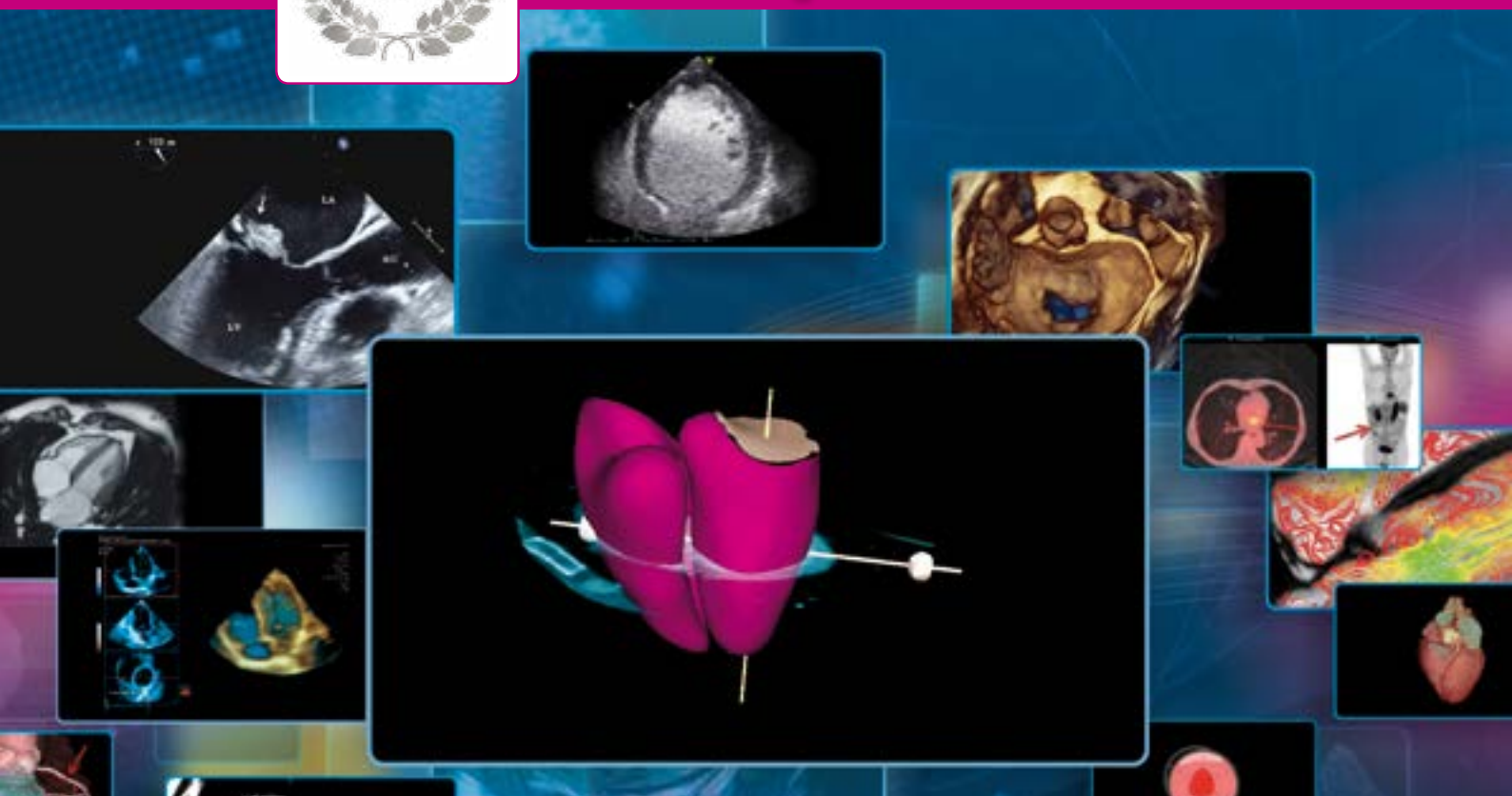




Annual congress of the EACVI



## FINAL PROGRAMME

# EuroEcho Imaging 2016

Leipzig - Germany, 7-10 December 2016

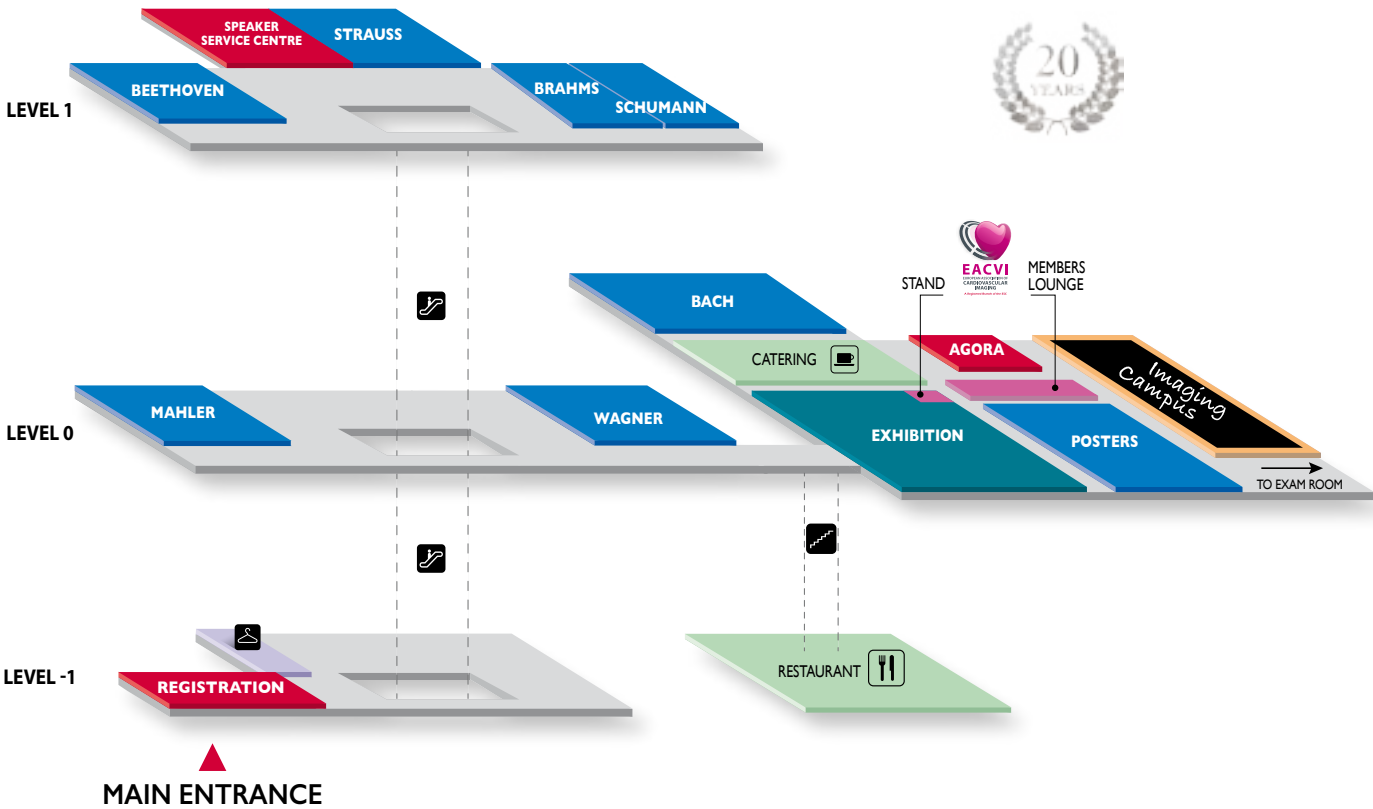
#EuroEcho

[www.escardio.org/EACVI](http://www.escardio.org/EACVI)



# Building Overview

## EuroEcho Imaging 2016



# Welcome Letter

Welcome to EuroEcho-Imaging 2016 in Leipzig, Germany!

EuroEcho-Imaging is the flagship of the European Association of Cardiovascular Imaging (EACVI) and the world's largest cardiovascular imaging congress.

This year's main themes are **imaging in arrhythmias** and **aortic valve diseases**.

The aim of EuroEcho-Imaging 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 alongside with the other cardiovascular imaging modalities**.

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 **three Young Investigator Award Sessions** (clinical, basic science, clinical case). Also, dedicated initiatives will reward the **best original research**.

However, EuroEcho-Imaging is more than just education and science. It is also a fantastic opportunity to meet the greatest experts in cardiovascular imaging in the world, to exchange ideas and projects with colleagues who share the same clinical or scientific interest coming from all over the world.

Thank you for being with us in Leipzig to celebrate the 20<sup>th</sup> anniversary of EuroEcho-Imaging!



Prof. Bogdan A. Popescu  
*EuroEcho-Imaging Scientific Director*  
*EACVI President-Elect*



Prof. Bernard Cosyns  
*EuroEcho-Imaging Scientific Chairperson*

# The EACVI welcomes you to EuroEcho-Imaging 2016

The European Association of Cardiovascular Imaging (EACVI), a registered brand of the ESC is a unified community gathering four imaging modalities under one entity (Echocardiography, Cardiovascular Magnetic Resonance, Nuclear Cardiology and Cardiac Computed Tomography).

The EACVI is the world's leading network of cardiovascular imaging experts welcoming over **8 000** professionals including cardiologists, sonographers, nurses, basic scientists and allied professionals.

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

Visit our stand and learn more about our initiatives.



*since 1997*

*of research  
of science  
of excellence*

## Let's celebrate the 20<sup>th</sup> anniversary of the congress!

Enjoy our special initiatives that will make this congress a memorable event.

- **Create and share your congress memories**

Take a selfie on the EACVI stand in the photobooth.

- **Learn more about the EuroEcho-Imaging history makers**

Visit the web page dedicated to the cardiovascular imaging experts who are the pillars of this successful history.

[www.escardio.org/euroecho-imaging/20years](http://www.escardio.org/euroecho-imaging/20years)

- **Enjoy healthy coffee breaks**

With anniversary apples.

- **Relax, you are an EACVI Member**

Enjoy your private garden area and write a note in the guest book in the EACVI Members' Lounge.

**Exclusive access to EACVI Members. If you're not a member yet, join the community on the EACVI stand and get immediate benefits.**

- **Win your free registration for EuroEcho-Imaging 2017**

Visit the EuroEcho-Imaging 2017 stand to get a chance to win\*.

\*Subject to acceptance of the terms and conditions for participation, available on the EuroEcho-Imaging 2017 stand (A1).

# EuroEcho-Imaging 2016 Committees

## Executive Board Members

Prof. Gilbert Habib,  
FESC (Marseille, FR)  
EACVI President 2014 - 2016

Prof. Bogdan Alexandru Popescu,  
FESC (Bucharest, RO)  
EACVI President-Elect

Prof. Patrizio Lancellotti,  
FESC (Liege, BE),  
EACVI Past-President

---

## EuroEcho-Imaging Scientific Programme Committee

Prof. Bogdan A. Popescu, FESC (Bucharest, RO)  
Scientific Programme Director

Prof. Bernard Cosyns, (Braine L'Alleud, BE)  
Scientific Chairperson

Dr. Julien Magne (Limoges, FR),  
Dr. Elena Galli (Rennes, FR)  
Scientific Programme Advisors

Prof. Sven Plein, (Leeds, UK)  
Chairperson - CMR Section

---

## Scientific Committee Advisors

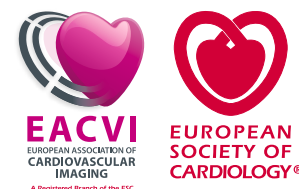
S. AL Ahmari (SAU)  
L. Badano (IT)  
W. Budts (BE)  
P. Charron (FR)  
M. de Alcantara (BR)  
P. Dehant (FR)  
C. Erol (TR)  
M. Garbi (UK)  
A. Hagendorff (DE)  
O. Kamp (NL)

G. Karatasakis (GR)  
A. Klein (US)  
P. Lancellotti (BE)  
N. Liel Cohen (ISR)  
O. Miller (UK)  
M. Monaghan (UK)  
S. Nakatani (JP)  
A. Neskovic (SER)  
P. Nyanopoulos (UK)  
P. Pibarot (CA)

J. Separovic Hanzevacki (HR)  
M. Swaans (US)  
R. Senior (UK)  
M. Vannan (US)  
A. Varga (HU)  
J.U. Voigt (BE)  
K. Yiangou (CY)  
J.L. Zamorano (ES)

Prof. Nuno Cardim,  
FESC (Lisbon, PT)  
Secretary

Prof. Thor Edvardsen,  
FESC (Oslo, NO)  
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Dr. Chiara Bucciarelli-Ducci, FESC (Bristol, UK)  
Scientific Programme Director - CMR Section

Prof. Steffen Petersen, FESC (London, UK)  
Scientific Programme Advisor CMR Section

Prof. Danilo Neglia, FESC (Pisa, IT)  
Chairperson - CT & Nuclear Section

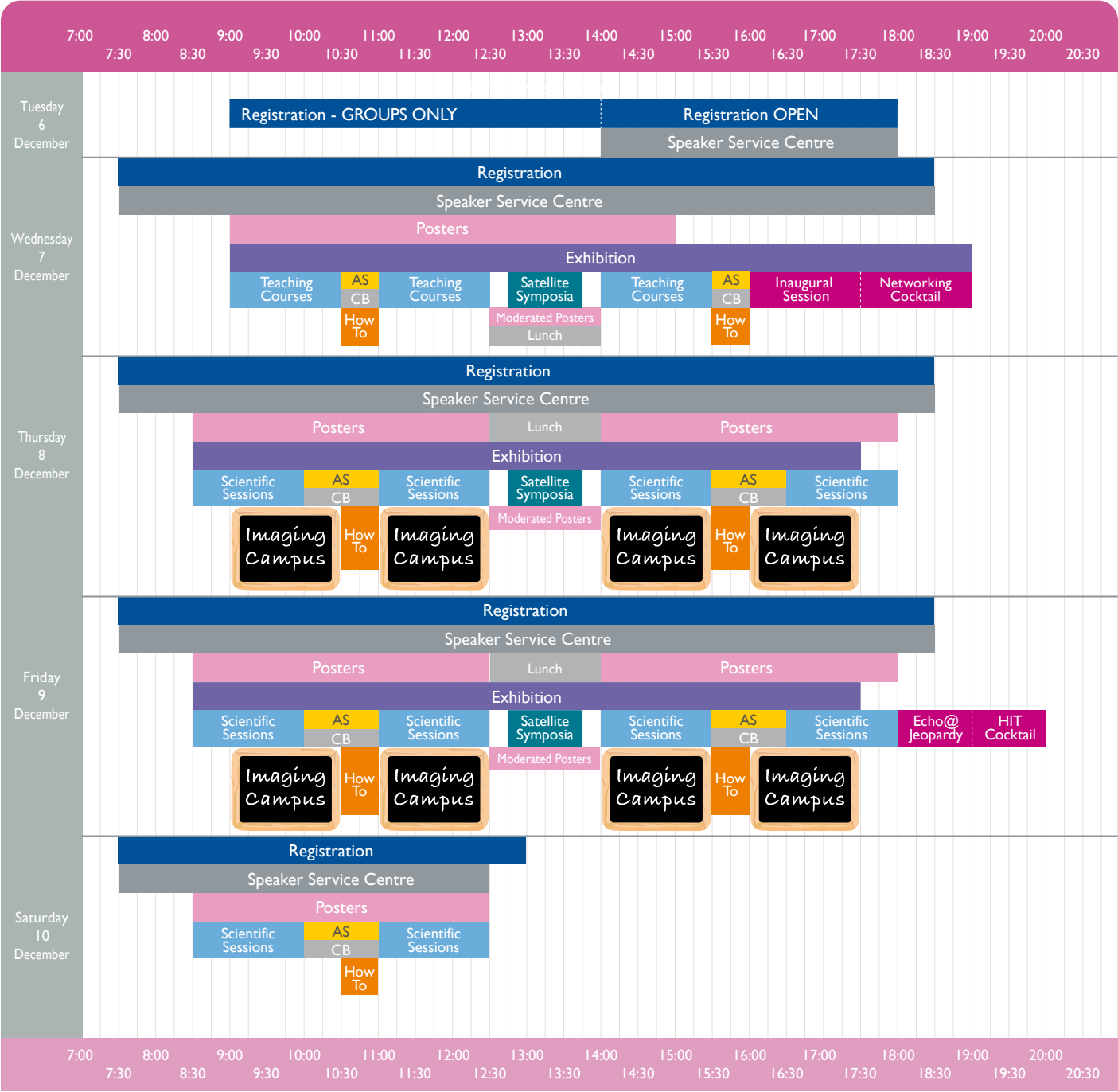
Dr. Oliver Gaemperli, (Zurich, CH)  
Scientific Programme Director CT & Nuclear Section

Prof. Andreas Hagendorff, (Leipzig, DE)  
Prof. Stephan von Bardeleben, (Mainz, DE)  
Local Hosts

## AKNOWLEDGEMENT

The EACVI Scientific Programme Committee takes the opportunity to thank all volunteers involved in the development of this year's edition of EuroEcho-Imaging congress: committee members, abstract reviewers, international partners, faculty and congress reporters.

# Congress Timetable



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## SCIENTIFIC PROGRAMME

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# Download EuroEcho-Imaging 2016 Mobile App



Search by day, topic,  
speaker, type of  
session or track

Receive the latest  
news & follow  
#EuroEcho Twitter feed

Access full programme,  
exhibitors, maps &  
practical information

Create your  
personal programme

**New !** Direct access  
to Mobile App  
Interactive Sessions

Search for  
'EuroEcho2016'  
in App Store® / Google Play



#EuroEcho  
[www.escardio.org/EACVI](http://www.escardio.org/EACVI)

# EuroEcho Imaging 2016



## General Information



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**#EuroEcho**

# Congress resources

Ensure you make the most of your congress experience with the whole range of resources you can use before, during and after the congress.



[www.escardio.org/EACVI](http://www.escardio.org/EACVI)

**Get the most up-to-date information with the Scientific Programme & Planner!**

**Before the congress:** Prepare your congress attendance by creating your personalised programme and review abstracts online (available for consultation one week before the congress).

**During the congress:** Search for sessions by topics or presenters and access any scientific content 24 hours after presentation time. *Computer stations are available at the internet corner in the Poster Area to consult the Scientific Programme & Planner.*

## **Missed a session?**

After the congress, resources will be available to Silver and Gold EACVI Members.

To access exclusive benefits and consult slides, screencasts and abstracts all year long, join us at the EACVI stand in the exhibition.

Get a special offer on the EACVI Silver membership level, exclusive to EuroEcho-Imaging 2016 paying delegates from 7 to 10 December 2016.

## **Download the “EuroEcho2016” Mobile App for free**

Give your feedback during the Mobile App Interactive sessions, find all accepted abstracts, access full programme, exhibitors, maps and any other practical information you may need.

Search for “EuroEcho2016” in App Store ® or Google Play.

*Consult the Mobile App “EuroEcho2016” at the Ipad stations located in the Poster Area.*

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

*All selected abstracts and electronic posters are available for consultation and all slide presentations will be available 24 hours after presentation time.*



## Pick up your free daily Congress News

Read about the scientific highlights of the day, find exclusive scientific articles and other daily news.

## Congress Reports

For unbiased scientific opinions on key sessions and presentations, read the EuroEcho-Imaging 2016 Congress Reports and discover the views of some of Europe's most well-known experts. These reports are prepared on-site by our voluntary reporters and published online every day on [www.escardio.org/EACVI](http://www.escardio.org/EACVI)

# Practical information

## Internet connexion

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

Wifi name: [eei-congress](#)

Logging: [eei2016](#) // Password: [eei2016](#)

## In the poster area

Charging stations for your mobile

E-Library to consult slides and abstracts

Internet corner to browse your scientific programme

Ipad stations to access the "EuroEcho2016" Mobile App

## Certificates

For [attendance](#) – available from the registration desks as of Friday 9 December

For [presentation](#) – available for abstract presenters at the poster assistance desk in the poster area

## Continuing medical education (CME)

EuroEcho-Imaging 2016 is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists.

The EACCME is an institution of the European Union of Medical Specialists (UEMS), [www.uems.net](http://www.uems.net).

EuroEcho-Imaging 2016 is designated for a maximum of 20 hours of European external CME credits. Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.

Through an agreement between the European Union of Medical Specialists and the American Medical Association, physicians may convert EACCME credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME credit to AMA credit can be found at [www.ama-assn.org/go/internationalcme](http://www.ama-assn.org/go/internationalcme).

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

## Language

The official language during the congress is English.

No translation is available.

A man in a dark suit and light blue shirt is seen from the side, sitting at a desk. He is looking at a laptop screen which is glowing. In front of him is a large, blurred audience seated in rows, filling a large hall. The background is warm and out of focus, suggesting a stage or presentation area. A microphone is visible on the desk to the right of the laptop.

# DON'T MISS

## Special events

### Inaugural Session

Wednesday 7 December, 16:00 - 18:05, room Beethoven

Featuring the Edler lecture by Professor Alan Fraser on "A 21<sup>st</sup> century manifesto for functional imaging".

Join us afterwards at the EACVI stand for the Networking Reception.

### EACVI General Assembly

Thursday 8 December, 10:00 - 11:00, room Strauss

Updates on the latest achievements and future developments of the association.

All EACVI Members are welcome to attend.

### EACVI HIT Cocktail (Heart Imagers of Tomorrow)

Friday 9 December, 19:00 - 20:00, EACVI Member's Lounge

Silver and Gold EACVI Members under 38 or under 40 years old in training are invited to exchange and meet the EACVI Board members.

## Pre-Arranged Programme

### Dedicated sessions for the Young Community

#### Recommended by the EACVI HIT (Heart Imagers of Tomorrow)

The EACVI Heart Imagers of Tomorrow committee has carefully selected sessions that are not to be missed for the young community, such as:

- **How To Sessions:**  
Sessions where experts share their tips on practical topics for young doctors such as "How to write an abstract"...  
Every day during the coffee breaks in room Mahler
- **The best of HIT:**  
A session coordinated by the EACVI young researchers who will present their extensive reviews on what has been presented in 2016 in imaging.  
Friday 9 December, 08:30 - 10:00, room Wagner
- **HIT hands-on workshops on Transoesophageal Echocardiography (TOE) for beginning practitioners:**  
Sessions will run 4 times per day on Thursday and Friday in the room Imaging Campus 2.

### Joint Sessions

To address the multi-disciplinary approach in cardiovascular imaging, sessions are organised in collaboration with:

#### ESC Communities:

- European Heart Rhythm Association (EHRA)
- European Association of Preventive Cardiology (EAPC)
- ESC Working Group on Valvular Heart Disease
- ESC Working Group on Myocardial and Pericardial Diseases

#### National Cardiac Societies:

- Bulgarian Working Group of Echocardiography
- Canadian Society of Echocardiography (CSE)
- Dutch Working Group of Echocardiography
- Iranian Society of Echocardiography (ISE)
- Japanese Society of Echocardiography (JSE)
- Korean Society of Echocardiography
- Moroccan Working Group on Echocardiography
- Polish Cardiac Society
- Saudi Heart Association (SHA)

#### ESC Sister Societies:

- American Society of Echocardiography (ASE)
- American Society of Nuclear Cardiology (ASNC)
- Asociación de Ecocardiografía e Imagen Cardiovascular de la Sociedad Interamericana de Cardiología (ECOSIAC)
- European Association of Nuclear Medicine (EANM)
- European Society of Cardiac Radiology (ESCR)

NEW

### Cardiac Imaging Quiz

Thursday 8 December, 11:00 - 12:30, room Malher

Discussions around practical cases by the experts who will call upon the audience in regards to the management of the case. The audience has the opportunity to vote and ask questions directly via the EuroEcho-Imaging 2016 Mobile Application during this highly interactive session!

NEW

### What's new in Industry

Thursday 8 December, 16:30 - 18:00, room Brahms

Industry representatives will present the highlights of their current developments and programme of research in the field of cardiovascular imaging.

Each presentation will be followed by a discussion, questions from the audience are encouraged.

NEW

### Innovation Corner

Friday 9 December, 10:00 - 11:00, Agora

Our industry partners will present their latest innovative products features and scientific achievements.

NEW

### Tea for two in the operating room

Friday 9 December, 16:30 - 18:00, room Brahms

Imaging-surgical confrontation

### Live session - Vertigo

Friday 9 December, 11:00 - 12:30, room Malher

Live case from the Heart Center Leipzig, jointly organised with the European Heart Rhythm Association (EHRA)

### Echo@Jeopardy

Friday 9 December, 18:00 - 19:00, room Beethoven

We are turning the popular Jeopardy game into a cardiovascular imaging challenge.

## Abstracts & Clinical Cases Programme

### Young Investigator Award (YIA) sessions

Thursday 8 December, Agora

- 10:00 - 11:00: Basic Science
- 15:30 - 16:30: Clinical Science - The Roelandt's Young Investigator Award
- 14:00 - 15:30: The research in imaging in the world - EuroEcho-Imaging Lecture

Featuring the Euroecho Lecture by Professor Partho Sengupta on "Cardiac imaging in the era of precision medicine".

The young investigator awardees 2016 from US (American Society of Echocardiography-ASE), Japan (Japanese Society of Echocardiography-JSE) and Asia (Asian Pacific Association of Echocardiography-AAE) will present their winning research.

All three sessions will be held on Friday 9 December, room Wagner.

### Rapid Fire Abstracts

Thursday and Friday all day in the Agora

Fast-paced and interactive oral presentations on research highlights, followed by discussions animated by two experts chairing the session!

### Clinical Case Sessions

Sharing challenging clinical cases to learn and exchange!

Everyday in the Agora

### Special Cases

- “Top of the hub- best clinical cases” session coordinated by the Heart Imaginers of Tomorrow (EACVI HIT).

Friday 9 December, 14:00 - 15:30, Agora

- “See that case at least once”

Saturday 10 December, 08:30 - 10:00, Agora

- “Cases from Outside Europe”

Saturday 10 December, 10:00 - 11:00, Agora

### Moderated Poster Sessions

Presenters will highlight key points of their research and answer questions from two moderators in front of an audience during each official lunch breaks.

### Poster Sessions

Presenters will display their research highlights and interact with their peers during coffee breaks.

### Heart Imaginers of Tomorrow (HIT) Poster Sessions

Come and visit the special area designed for our young researchers!

Every day in the Poster Area during lunch breaks

### Highlight Session

Saturday 10 December, 11:00 - 12:30, room Mahler

Cardiovascular imaging experts will present the key findings of the congress in their topic of expertise. Attend this session to get the overview and takehome messages from this year's congress.

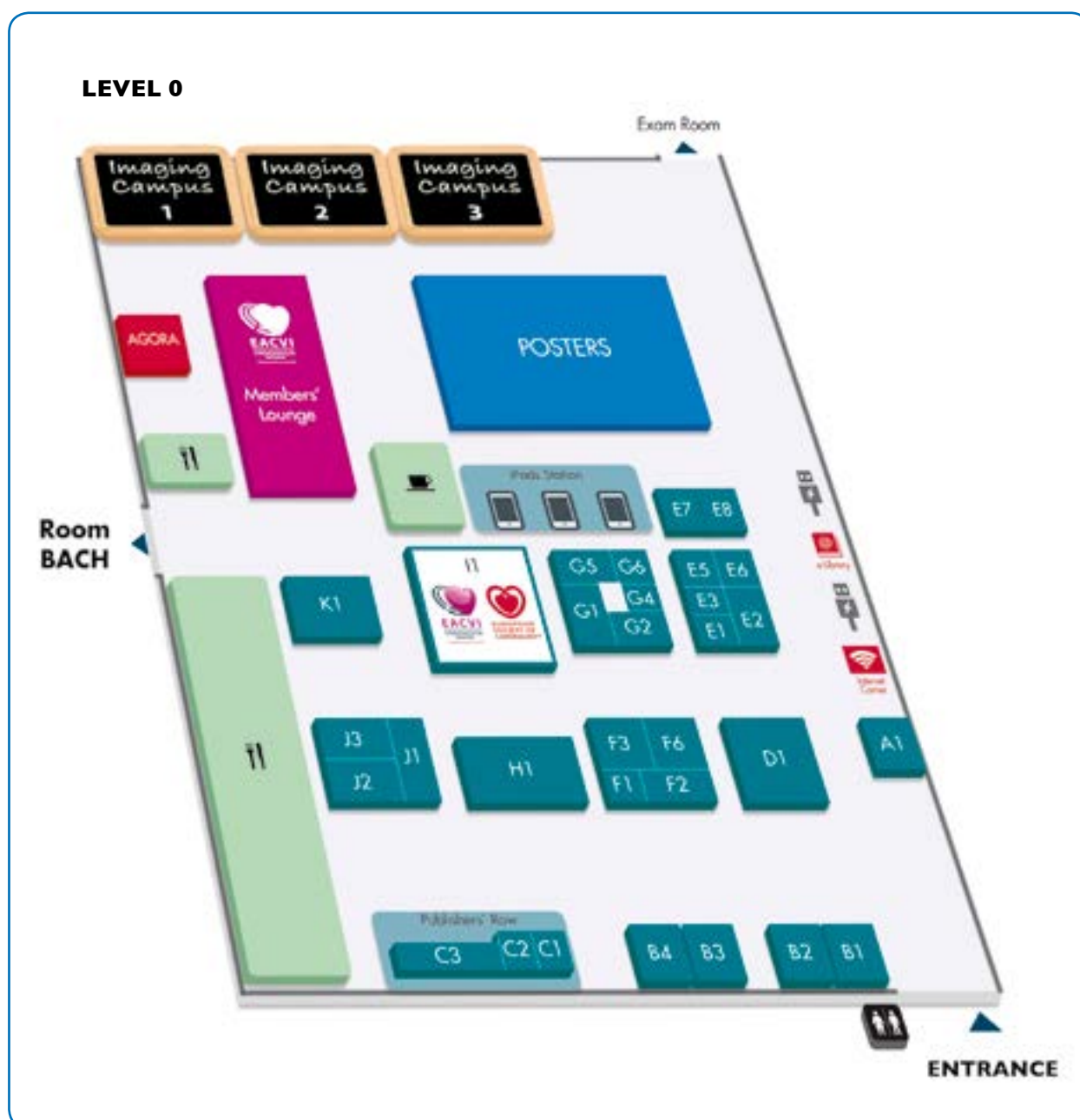
# DON'T MISS

# Industry at EuroEcho-Imaging 2016

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.



## EXHIBITION OPENING HOURS\*

Wednesday 7 December  
Thursday 8 December

09:00 - 19:00  
08:30 - 17:30

Friday 9 December  
Saturday 10 December

08:30 - 17:30  
CLOSED

\*except for the EACVI and EuroEcho-Imaging 2017 stands.

# Acknowledgements

## Exhibitors\*

|                                                                                               |    |                                            |    |
|-----------------------------------------------------------------------------------------------|----|--------------------------------------------|----|
| 3D Systems Healthcare                                                                         | E7 | Medical Simulation Technologies sp. z.o.o. | B1 |
| American Society of Echocardiography                                                          | G1 | Medical University of Lublin               | B4 |
| Anatomage Inc.                                                                                | F6 | MediMatic Srl                              | F2 |
| Bracco                                                                                        | E2 | Medis                                      | B2 |
| CAE Healthcare                                                                                | G6 | MIDES ULTRASOUND                           | E3 |
| Cleveland Clinic Abu Dhabi                                                                    | E8 | MINDRAY                                    | J2 |
| Echo Research and Practice                                                                    | C2 | Oxford University Press                    | C1 |
| EuroEcho-Imaging 2017 prize draw                                                              | A1 | Philips                                    | K1 |
| European Association of Cardiovascular Imaging (EACVI) / European Society of Cardiology (ESC) | II | Pie Medical Imaging B.V.                   | E5 |
| FUKUDA DENSHI                                                                                 | F3 | Siemens Healthineers                       | H1 |
| GE Healthcare                                                                                 | D1 | TOMTEC IMAGING SYSTEMS GMBH                | G5 |
| HeartWorks                                                                                    | G4 | Toshiba Medical Systems Europe             | J1 |
| Hellenic Cardiological Society                                                                | B3 | Tristel Solutions Limited                  | G2 |
| InHealth Echotech                                                                             | E6 | UltraLinq Healthcare Solutions LTD         | F1 |
| Lantheus Medical Imaging, Inc                                                                 | J3 | Valtech Cardio GmbH                        | E1 |
|                                                                                               |    | Wisepress Medical Bookshop                 | C3 |

## Satellite Symposia\*

Delegates are cordially invited to attend a series of Satellite Symposia included in the EuroEcho-Imaging 2016 scientific programme. These sessions will offer pertinent data on the latest scientific development in cardiovascular imaging from the industry.

**For further information, please refer to the Scientific Programme daily sections, the Scientific Programme & Planner and the Mobile App.**

- Bracco
- GE Healthcare - Valtech Cardio
- Philips
- SERVIER
- Toshiba Medical Systems

## Imaging Campus\*

The Imaging Campus 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.

Central Registration Management Desk onsite. Sign up now at the dedicated desk located in front of the Imaging Campus.

**Seats are limited!**

**For further information, please refer to the Scientific Programme daily sections, the Scientific Programme & Planner and the Mobile App.**

- GE Healthcare - Abbott
- TomTec Imaging Systems GmbH

## Sponsorship\*

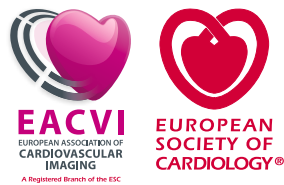
The ESC gratefully acknowledges the following organisations which have contributed to the success of EuroEcho-Imaging 2016 via educational grant, support of delegate services materials and other sponsorship opportunities.

- Bracco
- Edwards Lifesciences
- HeartWorks
- Shire
- United Therapeutics

\*as of 25/11/2016

# Contact Details

EuroEcho-Imaging congress is only accessible to certified healthcare professionals.



**Annual congress of the  
European Association of Cardiovascular Imaging (EACVI),  
A Registered Branch of the ESC**

European Heart House  
2035 Route des Colles - Les Templiers  
CS 80179 BIOT  
06903 Sophia Antipolis Cedex - France

Tel: +33 (0)4 92 94 76 00 - Fax: +33 (0)4 92 94 86 46

Email: [euroecho@escardio.org](mailto:euroecho@escardio.org)

Website: [www.escardio.org/euroecho](http://www.escardio.org/euroecho)



## Venue

Congress Center Leipzig  
Messe-Allee I - 04356 Leipzig - Germany

Tel. : +49 (0) 341 / 678 84 40

Fax : +49 (0) 341 / 678 84 42

[www.ccl-leipzig.de](http://www.ccl-leipzig.de)

# EuroEcho Imaging 2016



## Programme Overview by Session



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### Clinical Cases Sessions

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| • Ischaemic heart disease               | Page 110 |
| • Masses, tumors and source of embolism | Page 45  |
| • Pericardial disease                   | Page 44  |
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| • Top of the hub: best clinical cases   | Page 108 |
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| • Advanced imaging in advanced heart failure                      | Page 77  |
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| • How to perform a statistical analysis                           | Page 44  |
| • How to prepare a scientific lecture (how to be a good speaker)  | Page 133 |
| • How to prepare for EACVI CMR certification exams                | Page 75  |
| • How to prepare for EACVI echo certification exams               | Page 66  |
| • How to write an abstract                                        | Page 108 |
| • How to write a scientific paper                                 | Page 100 |
| • How to write an application for an EACVI grant – own experience | Page 47  |
| • Spot the problem - Imager vs Interventionalist                  | Page 110 |
| • The best of Heart Imagers of Tomorrow (HIT)                     | Page 98  |

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**Sponsored by TomTec Imaging Systems GmbH**
- Understanding Echo guidance for Percutaneous Mitral Valve Repair: Patients screening and procedure ..... [Page 60](#)  
**Sponsored by GE Healthcare - Abbott**
- EACVI HIT workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners ..... [Page 61, 96](#)  
**Organised by the EACVI**
- Imaging of cardiac anatomy ..... [Page 97](#)  
**Organised by the EACVI**
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**Sponsored by TomTec Imaging Systems GmbH**

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- Imaging in aortic regurgitation ..... [Page 98](#)
- Multimodality imaging for stratifying prognosis of sudden cardiac death ..... [Page 63](#)
- Multimodality imaging to optimize the management of atrial fibrillation ..... [Page 72](#)
- Place of imaging in aortic valve intervention ..... [Page 106](#)
- Should I stay or should I go: imaging for cardiac resynchronisation therapy candidates ..... [Page 101](#)
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**Sponsored by Bracco**
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**Sponsored by SERVIER**
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### Special Sessions

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# EACVI

EUROPEAN ASSOCIATION OF  
CARDIOVASCULAR  
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in Echocardiography  
and in Cardiovascular  
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# EuroEcho Imaging 2016



The European Association of  
Cardiovascular Imaging (EACVI)



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## ABOUT THE EACVI



The European Association of Cardiovascular Imaging (EACVI), a registered branch of the ESC, is a unified vibrant community gathering four imaging modalities under one entity (Echocardiography, Cardiovascular Magnetic Resonance, Nuclear Cardiology and Cardiac Computed Tomography). The EACVI is the world leading network of cardiovascular imaging experts, welcoming over 7 000 professionals including cardiologists, sonographers, nurses, basic scientists and allied professionals.

### Mission

To promote excellence in clinical diagnosis, research, technical development, and education in cardiovascular imaging in Europe.

### Vision

The EACVI is a unified community of experts and a knowledge provider in Echocardiography, Cardiovascular Magnetic Resonance, Nuclear Cardiology and Cardiac CT modalities. The EACVI has switched its vision from a single technique entity to a patient care centric strategy.

### Values

The EACVI is committed to maintaining the highest standards of professional excellence in all cardiovascular imaging modalities, by providing an innovative educational platform and being research focused to meet the needs and expectations at any stage of its members careers.

### Structure

| EACVI BOARD                                           |  |  |                          |  |  |  |                                                            |  |  |
|-------------------------------------------------------|--|--|--------------------------|--|--|--|------------------------------------------------------------|--|--|
| Cardiovascular<br>Magnetic Resonance<br>(CMR) Section |  |  | Echocardiography Section |  |  |  | Nuclear Cardiology<br>and Cardiac CT<br>(NC & CCT) Section |  |  |
| EACVI Committees                                      |  |  |                          |  |  |  |                                                            |  |  |
| Heart Imaging of Tomorrow                             |  |  |                          |  |  |  |                                                            |  |  |
| Scientific Documents                                  |  |  |                          |  |  |  |                                                            |  |  |
| Industry Round Table                                  |  |  |                          |  |  |  |                                                            |  |  |
| Congress Programme                                    |  |  |                          |  |  |  |                                                            |  |  |
| Membership                                            |  |  |                          |  |  |  |                                                            |  |  |
| International Communities                             |  |  |                          |  |  |  |                                                            |  |  |
| Accreditation & Certification                         |  |  |                          |  |  |  |                                                            |  |  |
| Research & Innovation                                 |  |  |                          |  |  |  |                                                            |  |  |
| Web & Communication                                   |  |  |                          |  |  |  |                                                            |  |  |
| Education                                             |  |  |                          |  |  |  |                                                            |  |  |

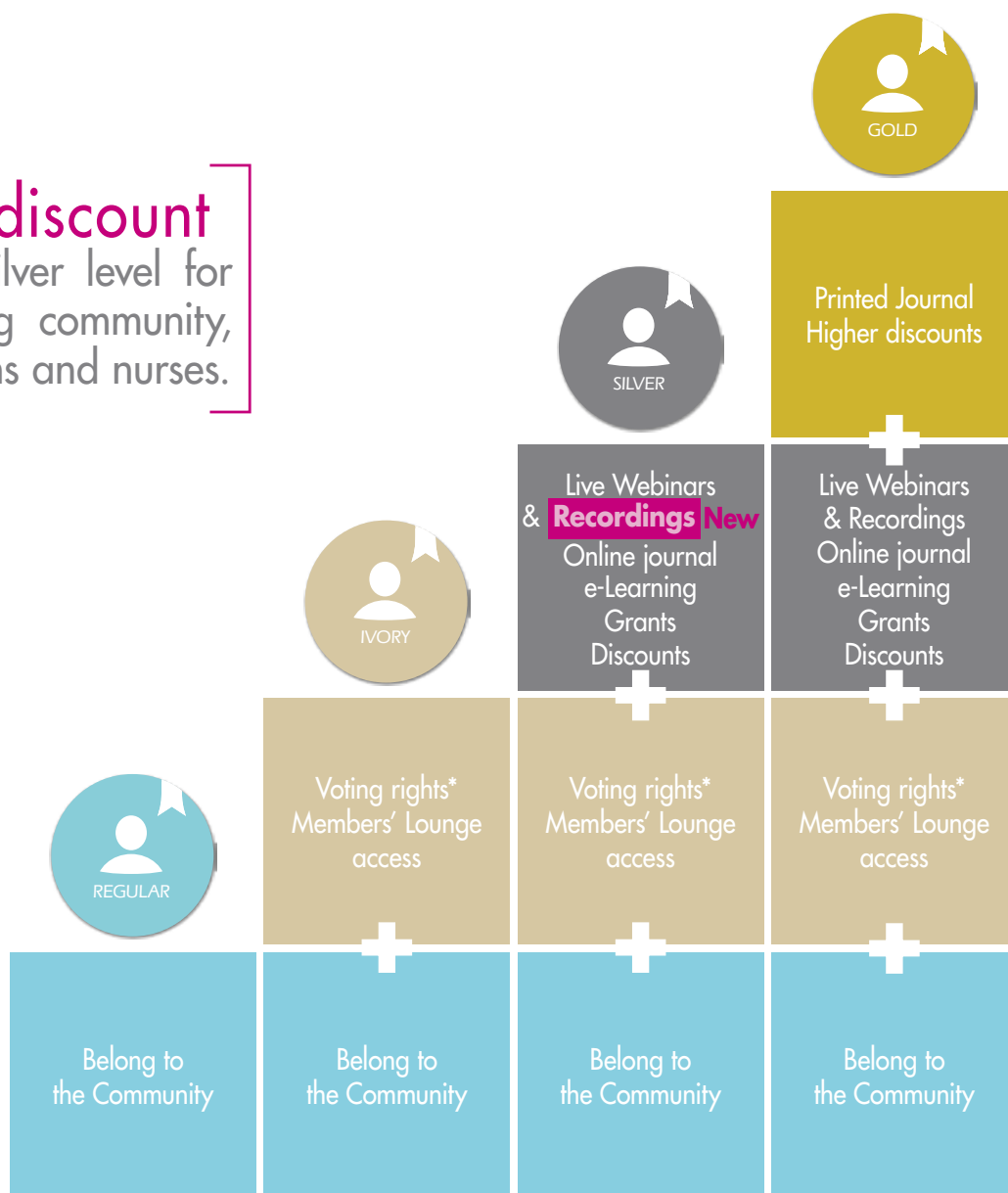
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## Membership Programme

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**ENJOY exclusive benefits**

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the young community,  
technicians and nurses.

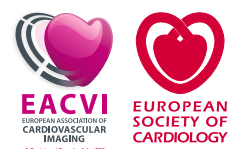


\* For members from ESC countries

WE  
ARE THE  
ESC

I'm an EACVI member. We are the ESC

[www.escardio.org/EACVI](http://www.escardio.org/EACVI)



The EACVI is a vibrant community of over **8 000 members** from all over the world

### Congresses and events

Don't miss the four EACVI congresses and events:

- EuroEcho-Imaging
- EuroCMR
- ICNC
- World Summit on Echocardiography



### Research

One of the priorities of the EACVI is to promote research, network and build-up large databases, in order to provide robust reference values especially for new technologies.

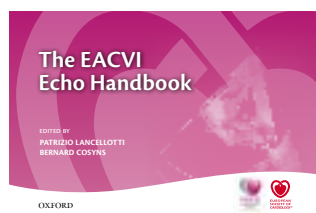
### Scientific documents & publications

Over the years, the EACVI has published a significant number of documents. Many have been produced in collaboration with main players in the field of cardiovascular imaging and are published in the **European Heart Journal – Cardiovascular Imaging (EHJ-CI)**, the official journal of the EACVI. Its impact factor went from 1.917 in 2008 to 4.293 in 2016.

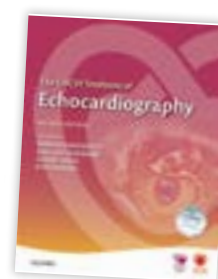
The EACVI also produces textbooks, guides and booklets, a goldmine of information. The **EACVI Echo handbook** is a success and the **second edition of the Textbook on Echocardiography** has just been release as well as the **2017 Compendium** which gathers most of the scientific papers published by the EACVI in 2015 and 2016.



European Heart Journal –  
Cardiovascular Imaging (EHJ-CI)



Echo Handbook



Textbook on Echocardiography  
2<sup>nd</sup> Edition

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## Laboratory Accreditation

The EACVI aims at raising the quality standards of equipment and practice across countries in a uniform manner. It is also designed as an educational tool to improve the overall quality of laboratories. EACVI Accredited Laboratories are centres of excellence and are actively contributing to the EACVI research projects.



## Individual Certification

The EACVI provides the only European certification of professional excellence in Echocardiography (TEE, TOE & CHD) and Cardiovascular Magnetic Resonance (CMR).

The programme is designed to certify both practical experience and knowledge in these specialties.

A minimum of seven exams are organised each year. The exams schedule is available on the dedicated EACVI webpage.

## Education

The EACVI Education Committee aims at offering innovative and high quality practical tools to experts and fellows in order to support their professional development.

Take part of our Educational Courses.

### • Learn from the experts

The EACVI e-learning programmes in Echocardiography and Cardiovascular Magnetic resonance are based on the Echo and CMR core syllabi of the EACVI. They provide the required knowledge to be at the cutting-edge of each imaging modality.

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### • Distance learning

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- Webinars (11+ sessions/year) and recordings
- EACVI Recommendations Mobile app
- Clinical Case Gallery
- Imaging Tool Boxes
- EduCAD Platform
- Pocket Size Ultrasound Devices Course
- Slides and webcasts from EACVI congresses and courses
- Key Reference Libraries



## EACVI Grants in Research & Training

The EACVI offers opportunities for young imagers to get training or research experience abroad for a period of 3 to 12 months in non-invasive imaging modalities at a high standard academic centre, clinical centre or university within an ESC Member's country other than their own. Extended age limit: application is open to imagers under 38 years old or under 40 in training. Yearly application deadline is 30 September.

# EACVI

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Want to learn more about our  
educational products, publications  
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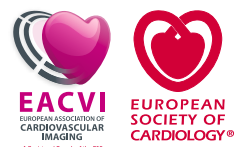


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\*Instead of 156€ for the 2017 membership. Restricted to paying EuroEcho-Imaging 2016 delegates. Not applicable to day ticket holders.

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- Echo Handbook
- 2017 Compendium
- Abridged recommendations
- CMR pocket guides
- Scientific posters

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### Have a break in the Members' Lounge

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Meet with colleagues, read emails or simply enjoy a cup of coffee in your exclusive area.

The lounge is located on the 1<sup>st</sup> floor.

#### Opening hours:

|                       |               |
|-----------------------|---------------|
| Wednesday 7 December: | 08:00 - 18:30 |
| Thursday 8 December:  | 08:00 - 18:30 |
| Friday 9 December:    | 08:00 - 18:30 |
| Saturday 10 December: | 08:00 - 12:00 |

### Certification exams in Echocardiography

Discounted fees for Silver and Gold EACVI members

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Three exams are organised during EuroEcho-Imaging 2016:

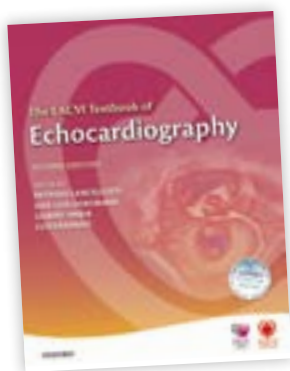
- **Adult Transthoracic Echocardiography (TTE)**  
On Thursday 8 December.  
Check in at 09:30. The exam will start at 10:45
- **Adult Transesophageal Echocardiography (TOE)**  
On Friday 9 December.  
Check in at 07:00. The exam will start at 08:15
- **Congenital Heart Disease Echocardiography (CHD)**  
On Friday 9 December.  
Check in at 14:00. The exam will start at 15:15

The duration of each exam is approximately 5 hours.

## EACVI EDUCATIONAL PRODUCTS AVAILABLE ON THE EACVI STAND

### Books

- Textbook on Echocardiography - Second edition NEW
- 2017 Compendium: including most of the scientific papers published by the EACVI in 2015 and 2016 NEW
- Echo Handbook



### Abridged Recommendations

- Aortic & Pulmonary Regurgitation\*
- Mitral & Transcuspoid Regurgitation\*\*
- Infective Endocarditis\*\*
- Transcatheter Interventions\*\*
- 2016 update - Diastolic Function\*
- Radiotherapy\*\*\*
- Transoesophageal Echocardiography\*\*\*
- Pericardial Disease\*\*
- Multi-modality imaging in Hypertrophic Cardiomyopathy\*\*



\* Available in English only

\*\* Available in English and Spanish

\*\*\* Available in English, French, Portuguese and Chinese

## Exclusive discounts for EACVI members

## CMR Pocket Guides

- Congenital Heart Disease
- Physics for Clinicians
- General Pocket Guide – 2<sup>nd</sup> edition released in 2016



## Scientific & Illustrated Posters

- Diastolic function
- 3D Echo
- Valve Stenosis



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# EuroEcho Imaging 2016



## Wednesday Sessions



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WEDNESDAY  
SESSIONS

WEDNESDAY  
POSTERS

THURSDAY  
SESSIONS

THURSDAY  
POSTERS

FRIDAY  
SESSIONS

FRIDAY  
POSTERS

SATURDAY  
SESSIONS

SATURDAY  
POSTERS

INDEX

Teaching Courses: Follow a whole subject in the same room all day  
& prepare the EACVI certification exam!

## Course on Congenital Heart Disease (CHD)

BEETHOVEN

09:00 - 10:30

### Right ventricle in congenital heart disease

Chairpersons: W. Budts (Leuven, BE); O. Miller (London, GB)

|       |                                                                                                          |   |
|-------|----------------------------------------------------------------------------------------------------------|---|
| 09:00 | Embryology, anatomy, pathology of normal and variations.<br>M.R.M. Jongbloed (Leiden, NL)                | 1 |
| 09:22 | Imaging of the Right ventricle: which modality is best?<br>K. Pushparajah (London, GB)                   | 2 |
| 09:45 | Functional assessment of the RV in congenital heart disease.<br>M.K. Friedberg (Toronto, CA)             | 3 |
| 10:07 | 3D echo of the right ventricular in congenital heart disease: current status?<br>J. Simpson (London, GB) | 4 |

11:00 - 12:30

### Malpositions and discordant connections

Chairpersons: H. Grotenhuis (Utrecht, NL); J. Vletter-McGhie (Schipluiden, NL)

|       |                                                                                                                   |    |
|-------|-------------------------------------------------------------------------------------------------------------------|----|
| 11:00 | Embryology, anatomy, anatomy-pathology: AV and VA connections.<br>M.R.M. Jongbloed (Leiden, NL)                   | 42 |
| 11:22 | Transposition of the great arteries: pre op and post op imaging.<br>X. Iriart (Pessac, FR)                        | 43 |
| 11:45 | AV & VA discordance (Congenitally Corrected Transposition): optimal imaging strategy?<br>L. Mertens (Toronto, CA) | 44 |
| 12:07 | Double outlet right ventricle: optimal imaging strategy?<br>J. Simpson (London, GB)                               | 45 |

14:00 - 15:30

### The atrial septum

Chairpersons: A. Van Den Bosch (Rotterdam, NL); L. Mertens (Toronto, CA)

|       |                                                                                                                                        |     |
|-------|----------------------------------------------------------------------------------------------------------------------------------------|-----|
| 14:00 | Embryology & Anatomy.<br>M.R.M. Jongbloed (Leiden, NL)                                                                                 | 104 |
| 14:22 | Imaging an ASD in adults and children, something old, something new.<br>J. Vletter-McGhie (Schipluiden, NL)                            | 105 |
| 14:45 | Transthoracic versus Transoesophageal Echo for ASD: indications, minimum data set and practical tips.<br>A. Savi (To Be Confirmed, GB) | 106 |
| 15:07 | Procedural imaging of ASD interventions; opening, closing and something in between.<br>T. Bharucha (Southampton, GB)                   | 107 |

## Course on Cardiac Resynchronisation Therapy (CRT)

BACH

09:00 - 10:30

### Identifying the cardiac substrate for cardiac resynchronisation therapy

Chairpersons: J.K. Kisslo (Durham, US); S. Ghio (Pavia, IT)

|       |                                                                                              |   |
|-------|----------------------------------------------------------------------------------------------|---|
| 09:00 | How can imaging add to the ECG in CRT?<br>N. Risum (Koebenhavn V, DK)                        | 5 |
| 09:22 | Left ventricular dyssynchrony in non-left bundle branch block.<br>J. Lumens (Maastricht, NL) | 6 |
| 09:45 | Role of cardiac magnetic resonance.<br>N. Ajmone Marsan (Leiden, NL)                         | 7 |
| 10:07 | New concepts of CRT response and non-response.<br>J. Gorcsan (Pittsburgh, US)                | 8 |

11:00 - 12:30

### Cardiac resynchronisation therapy: clinical evidence and unmet clinical needs

Chairpersons: E. Donal (Rennes, FR); V. Rigolin (Chicago, US)

|       |                                                                                            |    |
|-------|--------------------------------------------------------------------------------------------|----|
| 11:00 | Why cardiac imaging is not included in guidelines?<br>R.A. Grimm (Cleveland, US)           | 46 |
| 11:22 | How can imaging left ventricular dyssynchrony help clinically.<br>J.U. Voigt (Leuven, BE)  | 47 |
| 11:45 | Imaging to guide lead placement for CRT and other benefits.<br>F. Alpendurada (London, GB) | 48 |
| 12:07 | Unmet clinical needs: how can imaging help?<br>V. Delgado (Leiden, NL)                     | 49 |

14:00 - 15:30

### Challenges in cardiac resynchronisation therapy and the role of imaging

Chairpersons: S. Lafitte (Pessac, FR); M. Sitges (Barcelona, ES)

|       |                                                                                               |     |
|-------|-----------------------------------------------------------------------------------------------|-----|
| 14:00 | How to define response to CRT: role of imaging.<br>O.A. Smiseth (Oslo, NO)                    | 108 |
| 14:22 | When to do AV and VV optimisation: what is the evidence?<br>N. Van De Veire (Gent, BE)        | 109 |
| 14:45 | Mitral regurgitation after CRT: significance and next steps.<br>N. Ajmone Marsan (Leiden, NL) | 110 |
| 15:07 | Can imaging assist new CRT approaches?<br>B. Bijnens (Barcelona, ES)                          | 111 |

## Course on three-dimensional echocardiography: from the basics to the future

MAHLER

09:00 - 10:30

### The basics. Everything you want to know to start off on the right foot

Chairpersons: F.J. Ten Cate (Rotterdam, NL); M.J. Monaghan (London, GB)

|       |                                                           |    |
|-------|-----------------------------------------------------------|----|
| 09:00 | Physics of 3DEcho.                                        | 9  |
|       | L. Badano (Padova, IT)                                    |    |
| 09:22 | How to acquire: tips and tricks.                          | 10 |
|       | J. Vletter-McGhie (Schippluiden, NL)                      |    |
| 09:45 | How to display: multislice, volume and surface rendering. | 11 |
|       | J.D. Kasprzak (Lodz, PL)                                  |    |
| 10:07 | Added value of 3DEcho in quantitation.                    | 12 |
|       | E. Surkova (Padua, IT)                                    |    |

11:00 - 12:30

### How do you want to see your congenital heart disease patients: flat views vs. anatomical volume rendering?

Chairpersons: A. Van Den Bosch (Rotterdam, NL); A. Franke (Hannover, DE)

|       |                                                                                                                    |    |
|-------|--------------------------------------------------------------------------------------------------------------------|----|
| 11:00 | Atrial and ventricular septal defects.                                                                             | 50 |
|       | A. Van De Bruene (Neerijse, BE)                                                                                    |    |
| 11:22 | Functional assessment of the right ventricle in CHD – current possibilities of three-dimensional echocardiography. | 51 |
|       | K.T. Laser (Bad Oeynhausen, DE)                                                                                    |    |
| 11:45 | Univentricular hearts.                                                                                             | 52 |
|       | A. Dragulescu (Toronto, CA)                                                                                        |    |
| 12:07 | Ebsteins disease.                                                                                                  | 53 |
|       | A. Van Den Bosch (Rotterdam, NL)                                                                                   |    |

14:00 - 15:30

### To the infinity... and beyond!

Chairpersons: A. Franke (Hannover, DE); F.F. Faletra (Lugano, CH)

|       |                                                                                                            |     |
|-------|------------------------------------------------------------------------------------------------------------|-----|
| 14:00 | Beyond physical limits: high frame rate 3D imaging.                                                        | 112 |
|       | J.D.hooge (Leuven, BE)                                                                                     |     |
| 14:22 | Beyond geometrical assumptions: quantitation of tricuspid annulus and severity of tricuspid regurgitation. | 113 |
|       | K. Addetia (Chicago, US)                                                                                   |     |
| 14:45 | Beyond right ventricular volumes: shape and mechanics.                                                     | 114 |
|       | D. Muraru (Padua, IT)                                                                                      |     |
| 15:07 | Beyond cardiac chamber function: intracardiac blood flow.                                                  | 115 |
|       | To be announced                                                                                            |     |

## Course on Imaging and Anaesthesiology

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

WAGNER



09:00 - 10:30

### Thoracic aorta and pericardium

Chairpersons: M. Pepi (Milan, IT); C.M. Mukherjee (Karlsruhe, DE)

|       |                                                                                    |    |
|-------|------------------------------------------------------------------------------------|----|
| 09:00 | Modified TEE evaluation: effect on patient outcome<br>A.P. Nierich (Hattem, NL)    | 13 |
| 09:22 | Aortic Dissection: how helpful is TEE?<br>J. van der Maaten (Onnen, NL)            | 14 |
| 09:45 | Monitoring of pericardiocentesis and other procedures.<br>B. Cosyns (Brussels, BE) | 15 |
| 10:07 | Constrictive pericarditis and surgery.<br>J.K. Oh (Rochester, US)                  | 16 |

11:00 - 12:30

### Ventricle and more.

Chairpersons: C.M. Mukherjee (Karlsruhe, DE); G. La Canna (Rodengo Saiano, IT)

|       |                                                                         |    |
|-------|-------------------------------------------------------------------------|----|
| 11:00 | Ventricular systolic function.<br>C.M. Mukherjee (Karlsruhe, DE)        | 54 |
| 11:22 | Diastolic dysfunction.<br>F. Guarracino (Pisa, IT)                      | 55 |
| 11:45 | TEE assistance for assist device.<br>S. Bouchez (Ghent, BE)             | 56 |
| 12:07 | HOCM : an intraoperative challenge.<br>G. La Canna (Rodengo Saiano, IT) | 57 |

14:00 - 15:30

### Myocardial imaging and cardiac source of embolism

Chairpersons: M. Pepi (Milan, IT); J. Ender (Leipzig, DE)

|       |                                                                                       |     |
|-------|---------------------------------------------------------------------------------------|-----|
| 14:00 | Myocardial imaging: how helpful in OR setting?<br>P.F. Wouters (Gent, BE)             | 116 |
| 14:22 | Masses and tumors.<br>J. Ender (Leipzig, DE)                                          | 117 |
| 14:45 | Atrial fibrillation (general – cardioversion- new procedures).<br>M. Pepi (Milan, IT) | 118 |
| 15:07 | Endocarditis.<br>J.M. Erb (Weil Am Rhein, DE)                                         | 119 |

## Course on Valvular Heart Disease

**BRAHMS**

09:00 - 10:30

### Aortic stenosis

Chairpersons: J. Bergler-Klein (Vienna, AT); J. Mascherbauer (Vienna, AT)

|       |                                                                            |    |
|-------|----------------------------------------------------------------------------|----|
| 09:00 | <b>Anatomy of the aortic valve and root.</b><br>F.F. Faletra (Lugano, CH)  | 17 |
| 09:22 | <b>Pathophysiology and natural history.</b><br>N. Rajamannan (Chicago, US) | 18 |
| 09:45 | <b>Assessment of severity.</b><br>P. Pibarot (Quebec, CA)                  | 19 |
| 10:07 | <b>Surgery and percutaneous alternatives.</b><br>T. Modine (Lille, FR)     | 20 |

11:00 - 12:30

### Mitral regurgitation

Chairpersons: P. Lancellotti (Liege, BE); R.E. Dulgheru (Liege, BE)

|       |                                                                                                       |    |
|-------|-------------------------------------------------------------------------------------------------------|----|
| 11:00 | <b>Anatomy of the mitral valve and sub-valve apparatus.</b><br>A.J. Berrebi (Issy Les Moulineaux, FR) | 58 |
| 11:22 | <b>Pathophysiology and natural history.</b><br>J. Magne (Limoges, FR)                                 | 59 |
| 11:45 | <b>Assessment of severity.</b><br>M.J. Monaghan (London, GB)                                          | 60 |
| 12:07 | <b>Surgery and percutaneous alternatives.</b><br>T. Modine (Lille, FR)                                | 61 |

14:00 - 15:30

### Infective endocarditis

Chairpersons: O. Wendler (London, GB); E. Plonska-Gosciniak (Szczecin, PL)

|       |                                                                    |     |
|-------|--------------------------------------------------------------------|-----|
| 14:00 | <b>Epidemiology and microbiology.</b><br>B. lung (Paris, FR)       | 120 |
| 14:22 | <b>Diagnosis.</b><br>I. Vilacosta (Madrid, ES)                     | 121 |
| 14:45 | <b>Complications.</b><br>C. Selton-Suty (Nancy, FR)                | 122 |
| 15:07 | <b>Surgery and its timing.</b><br>H.J. Schaefer (Homburg/Saar, DE) | 123 |

## Course for modern transcatheter heart valve interventions

SCHUMANN

09:00 - 10:30

### Guiding and evaluation of interventional aortic valve therapy

Chairpersons: R.S. Von Bardeleben (Mainz, DE); A. Hagendorff (Leipzig, DE)

|       |                                                                                                                                            |    |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------|----|
| 09:00 | Prior to TAVI: role of echocardiography in low flow-low gradient aortic valve stenosis evaluated for TAVI.<br>W. Fehske (Niederkassel, DE) | 21 |
| 09:22 | Periprocedural guiding by echocardiography and detection of complications.<br>F. Kreidel (Hamburg, DE)                                     | 22 |
| 09:45 | Diagnostic of para- and transvalvular leakages in TVAR.<br>V. Rudolph (Cologne, DE)                                                        | 23 |
| 10:07 | Multivalvular diseases in TAVI patients: how to diagnose and when to treat?<br>V. Rudolph (Cologne, DE)                                    | 24 |

11:00 - 12:30

### Guiding and evaluation of interventional mitral valve therapy

Chairpersons: R.S. Von Bardeleben (Mainz, DE); A. Hagendorff (Leipzig, DE)

|       |                                                                                                                                                                                                                                                                |    |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 11:00 | Patient selection for interventional valve therapy: classification of mitral regurgitation. Morphological and functional criteria for the therapeutical decision.<br>A. Hagendorff (Leipzig, DE)                                                               | 62 |
| 11:22 | New diagnostic and therapeutical approaches to the mitral valve: when to treat the annulus?<br>When to treat the leaflets?<br>R.S. Von Bardeleben (Mainz, DE)                                                                                                  | 63 |
| 11:45 | Controversies in grading mitral valve regurgitation severity: new guidelines and new diagnostic options.<br>B.P. Plicht (Dortmund, DE)                                                                                                                         | 64 |
| 12:07 | Follow-up after mitral tmvr: how to evaluate acute and long-term therapeutical effects in TMVR?<br>How to evaluate mitral valve deformation and potential left ventricular reverse remodelling in follow-up investigations?<br>R.S. Von Bardeleben (Mainz, DE) | 65 |

14:00 - 15:30

### Guiding and evaluation of specialities in interventional valve therapy

Chairpersons: R.S. Von Bardeleben (Mainz, DE); A. Hagendorff (Leipzig, DE)

|       |                                                                                                                                                                                         |     |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 14:00 | Echocardiographic criteria of paravalvular leakages: size, position and treatment indication.<br>N.C. Wunderlich (Darmstadt, DE)                                                        | 124 |
| 14:22 | Guiding during pvl procedures: how to evaluate success?<br>When does a closure cause deterioration of the patient's condition?<br>C. Butter (Bernau/Berlin, DE)                         | 125 |
| 14:45 | The tricuspid valve: new approaches to treat right heart failure due to tricuspid regurgitation: how to guide by echocardiography the interventions?<br>R.S. Von Bardeleben (Mainz, DE) | 126 |
| 15:07 | The pulmonary valve: patient selection criteria in pulmonary stenosis and regurgitation for the interventional therapy– The role of echocardiography.<br>I. Daehnert (Leipzig, DE)      | 127 |

## Course on Cardiovascular Magnetic Resonance (CMR)

STRAUSS

09:00 - 10:30

### The basics of cardiovascular magnetic resonance

*Joint session with the European Society of Cardiac Radiology (ESCR)*

Chairpersons: B.L.M. Gerber (Woluwe-St. Lambert, BE); R. Nijveldt (Amsterdam, NL)

|       |                                                                                                                         |    |
|-------|-------------------------------------------------------------------------------------------------------------------------|----|
| 09:00 | Magnetic resonance physics made easy.<br>D. Messroghli (Berlin, DE)                                                     | 25 |
| 09:22 | Cardiac magnetic resonance versus echo examinations: what is similar, what is different?<br>A.M.G. Almeida (Lisbon, PT) | 26 |
| 09:45 | Overview of clinical CMR methods: morphology, function and more.<br>M. Gutberlet (Leipzig, DE)                          | 27 |
| 10:07 | Safety of cardiovascular magnetic resonance.<br>M. Lombardi (San Donato Milanese, IT)                                   | 28 |

11:00 - 12:30

### Common cardiovascular magnetic resonance indications

Chairpersons: I. Eitel (Luebeck, DE); C. Bucciarelli-Ducci (Bristol, GB)

|       |                                                                                                      |    |
|-------|------------------------------------------------------------------------------------------------------|----|
| 11:00 | Cardiovascular magnetic resonance for heart failure assessment.<br>R. Nijveldt (Amsterdam, NL)       | 66 |
| 11:22 | Cardiovascular magnetic resonance for ischaemia assessment in stable IHD.<br>R.M. Manka (Zurich, CH) | 67 |
| 11:45 | Cardiovascular magnetic resonance in acute coronary syndromes.<br>I. Eitel (Luebeck, DE)             | 68 |
| 12:07 | Cardiovascular magnetic resonance in cardiomyopathy.<br>G.P. McCann (Leicester, GB)                  | 69 |

14:00 - 15:30

### Advanced cardiovascular magnetic resonance indications

Chairpersons: B. Herzog (Lucerne, CH); E.R. Valsangiacomo Buechel (Zurich, CH)

|       |                                                                                        |     |
|-------|----------------------------------------------------------------------------------------|-----|
| 14:00 | TI mapping: methods and indications.<br>D. Messroghli (Berlin, DE)                     | 128 |
| 14:22 | Cardiovascular magnetic resonance in congenital heart disease.<br>O. Tann (London, GB) | 129 |
| 14:45 | Cardiovascular magnetic resonance for valve assessment.<br>G.P. McCann (Leicester, GB) | 130 |
| 15:07 | Tumours, pericardium and rare diseases.<br>T. Sykora (Tulln, AT)                       | 131 |

## Course on Computed Tomography

## IMAGING CAMPUS I

09:00 - 10:30

### Basics coronary

Chairpersons: K. Nieman (Stanford, US); F. Pugliese (London, GB)

|       |                                                                                                                                                                                        |    |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 09:00 | Principles of cardiac CT: from photons to pictures.<br>F. Pugliese (London, GB)                                                                                                        | 29 |
| 09:15 | Scan protocols: optimal quality, minimal dose.<br>M. Marwan (Erlangen, DE)                                                                                                             | 30 |
| 09:45 | Coronary calcium score and Computed Tomography angiography: the evidence<br>- Focus on stable chest pain.<br>K. Nieman (Stanford, US)                                                  | 31 |
| 10:15 | Structural heart disease: beyond the coronary arteries<br>- Fundamental non-coronary cardiac disease<br>- Tumors, thrombi<br>- Pericardium, great vessels.<br>A. Rossi (Rotterdam, NL) | 32 |

11:00 - 12:30

### Advanced

Chairpersons: O. Gaemperli (Zurich, CH); K. Nieman (Stanford, US)

|       |                                                                                                                                                                    |    |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 11:00 | Advanced coronary disease<br>- Plaque, stents, grafts.<br>K. Nieman (Stanford, US)                                                                                 | 70 |
| 11:15 | Functional cardiac Computed Tomography applications<br>- Ischaemia (perfusion, FFRCT, TAG etc), viability, LVF.<br>F. Pugliese (London, GB)                        | 71 |
| 11:45 | CT guided interventions: TAVI and beyond<br>- TAVI, EP, PCI, other.<br>M. Marwan (Erlangen, DE)                                                                    | 72 |
| 12:15 | Integrated imaging of atherosclerosis and ischaemia<br>- Computational methods, plaque features (diagnosis/prognostication).<br>P. Maurovich-Horvat (Budapest, HU) | 73 |

14:00 - 15:30

### Cases based applications

Chairpersons: O. Gaemperli (Zurich, CH); F. Pugliese (London, GB)

|       |                                                                                                                                                                                                                 |     |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 14:00 | Cardiac CT in acute cardiovascular situations<br>- Summary of evidence/literature for CT and ACS<br>- Dissections/PE/trauma<br>- ECMO/LVAD<br>- Acute heart failure/resuscitations.<br>K. Nieman (Stanford, US) | 132 |
| 14:30 | Structural heart disease<br>- Cardiomyopathies<br>- Valvular, prosthetic valves, endocarditis<br>- Other applications.<br>P. Maurovich-Horvat (Budapest, HU)                                                    | 133 |
| 14:50 | Congenital conditions in kids and grown-ups.<br>K. Nieman (Stanford, US)                                                                                                                                        | 134 |
| 15:10 | Hybrid imaging.<br>O. Gaemperli (Zurich, CH)                                                                                                                                                                    | 135 |

## Other sessions

10:30 - 11:00

How-to Session

MAHLER

### How to perform a statistical analysis

EACVI HIT (Heart Imagers of Tomorrow)



**Chairperson: R. Pavasini (Ferrara, IT)**

*How-to sessions provide practical details and tools or tips and tricks on a specific topic. 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:**

M.A. Clavel (Quebec, CA)

37

10:30 - 11:00

Clinical Cases

AGORA

### Pericardial disease

**Chairpersons: B.P. Paelinck (Edegem, BE); O. Kamp (Amsterdam, NL)**

*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.*

10:30 **Panel of experts:**

A. Stefanidis (Athens, GR); O. Tufekcioglu (Ankara, TR)

38

10:30 **Diagnostic difficulties of a vasculitis caused by uncommon cardiovascular manifestation**

B. Illes (Szeged, HU)

39

10:40 **Pericardial mass in a post-surgery mitral endocarditis patient**

A. Marques (Braga, PT)

40

10:50 **Focal constrictive pericarditis: multimodality imaging.**

M.M. Martinez Quesada (Seville, ES)

41

12:45 - 13:45

Satellite Symposium

WAGNER

## Clinical Reality for Mitral and Tricuspid Valve Interventions

Sponsored by GE Healthcare - Valtech Cardio

**Chairpersons: R.S. Von Bardeleben (Mainz, DE); V. Rudolph (Cologne, DE)**

*Illustrate the utility of 4D TEE in interventional echocardiography.*

*Demonstrate procedure-specific imaging needs in the structural heart disease domain.*

*Discuss procedure-specific challenges and how to overcome them with procedural TEE.*

|       |                                                                                        |    |
|-------|----------------------------------------------------------------------------------------|----|
| 12:45 | <b>24 months' results and clinical studies update - 100 patients: lessons learned.</b> | 78 |
|       | V. Rudolph (Cologne, DE)                                                               |    |
| 13:05 | <b>Recorded Live Demonstration – minimal invasive "annuloplasty band procedure".</b>   | 79 |
|       | R.S. Von Bardeleben (Mainz, DE)                                                        |    |
| 13:25 | <b>Echo Guidance: following the anatomy and physiology.</b>                            | 80 |
|       | F. Kreidel (Hamburg, DE)                                                               |    |

12:45 - 13:45

Clinical Cases

AGORA

## Masses, tumors and source of embolism

**Chairpersons: N. Cardim (Lisbon, PT); I.A.C. Van Der Bilt (Naarden, NL)**

*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.*

|       |                                                                                                                                                         |    |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 12:45 | <b>Panel of experts:</b>                                                                                                                                | 81 |
|       | K. Yiangou (Nicosia, CY); A.M.G. Almeida (Lisbon, PT)                                                                                                   |    |
| 12:45 | <b>A case of right atrial diverticulum initially diagnosed in 58 years old female patient.</b>                                                          | 82 |
|       | A. Savelev (St-Petersburg, RU)                                                                                                                          |    |
| 12:55 | <b>Unusual cardiac mass</b>                                                                                                                             | 83 |
|       | R. Moscicki (El Campello, ES)                                                                                                                           |    |
| 13:05 | <b>A very rare cardiac mass in the right atrium</b>                                                                                                     | 84 |
|       | R. Mata Caballero (Getafe, ES)                                                                                                                          |    |
| 13:15 | <b>A rare cause of syncope: intravenous leiomyomatosis with cardiac extension</b>                                                                       | 85 |
|       | J. Jacobs (Hoboken, BE)                                                                                                                                 |    |
| 13:25 | <b>Left ventricular myxoma- a rare finding</b>                                                                                                          | 86 |
|       | O.A. Popa (Bucharest, RO)                                                                                                                               |    |
| 13:35 | <b>Mediastinal masses and a left atrial tumor: are they related? -the role of multimodal imaging in the diagnosis and the management of the patient</b> | 87 |
|       | R. Siliste (Bucharest, RO)                                                                                                                              |    |

12:45 - 13:45

Moderated Posters

MODERATED POSTER AREA

## HIT moderated posters: imaging of tomorrow EACVI HIT (Heart Imagers of Tomorrow)



Chairpersons: S. Stoebe (Leipzig, DE); A. Bernard (Tours, FR)

Presenters will highlight key points of their research and answer questions from two moderators in front of an audience during official lunch breaks.

- |                                                                                                                                                                                                                                            |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Contribution of LV dilatation and left bundle branch block to functional mitral regurgitation in DCM hearts                                                                                                                                | P88 |
| J. Duchenne, S. Bezy, P. Claus, E. Pagourelas, O. Gheysens, F. Rega, J.U. Voigt (Leuven, BE)                                                                                                                                               |     |
| Can we predict improvement of secondary mitral regurgitation after CRT?                                                                                                                                                                    | P89 |
| B.W. Michalski, I. Stankovic, E. Paourelas, L. Faber, A. Ciarka, M. Aarones, S. Winter, S. Aakhus, W. Fehske, J.U. Voigt (Leuven, BE; Belgrade, RS; Bad Oeynhausen and Cologne, DE; Oslo, NO)                                              |     |
| Dual-energy computed tomography myocardial perfusion to detect coronary artery disease and predict need of revascularization                                                                                                               | P90 |
| F. Valente, A. Ruiz-Munoz, L. Galian, L. Dux-Santoy, N. Pizzi, S. Aguade, I. Otaegui, M. Huguet, A. Sao-Aviles, L. Gutierrez, G. Maldonado, T. Gonzalez-Alujas, D. Garcia-Dorado, A. Evangelista, J.F. Rodriguez-Palomares (Barcelona, ES) |     |
| Prognostic role of ventricular-arterial coupling after cardiac surgery                                                                                                                                                                     | P91 |
| F. Bianco, V. Bucciarelli, F. Ricci, R. Aquilani, G.G. Di Pace, E. Miniera, R. De Caterina, S. Gallina (Chieti, IT)                                                                                                                        |     |
| Long-term prognostic determinants in valvular aortic stenosis - is optimized medical therapy an option?                                                                                                                                    | P93 |
| L. Almeida Morais, N. Santos, L. Moura Branco, A. Galrinho, S. Aguiar Rosa, I. Rodrigues, G. Portugal, P. Pinto-Teixeira, A. Viveiros-Monteiro, R. Cruz-Ferreira (Lisbon, PT)                                                              |     |
| Diagnostic performance and prognostic value of cardiopulmonary ultrasound for the early diagnosis of postoperative heart failure after cardiac surgery                                                                                     | P94 |
| F. Ricci, R. Aquilani, G. Dipace, V. Bucciarelli, F. Bianco, E. Miniero, S. Gallina (Chieti, IT)                                                                                                                                           |     |
| Does tricuspid annuloplasty increases surgical mortality and morbidity during mitral valve replacement?                                                                                                                                    | P95 |
| A. Darmon, C. Verdonk, L. Lepage, C. Cimadevilla, P. Nataf, A. Vahanian, D. Messika-Zeitoun (Paris, FR)                                                                                                                                    |     |

12:45 - 13:45

Moderated Posters

MODERATED POSTER AREA

## Deformation imaging

Chairpersons: K. Hristova (Sofia, BG); J. Separovic Hanzevacki (Zagreb, HR)

Presenters will highlight key points of their research and answer questions from two moderators in front of an audience during official lunch breaks.

- |                                                                                                                                                                                             |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| How accurate can different strain analysis tools detect regional function abnormalities, a report from the second inter-vendor comparison study                                             | P96  |
| O. Mirea, E.D. Pagourelas, J. Duchenne, J. Bogaert, J.D. Thomas, L.P. Badano, J.U. Voigt (Leuven, BE; Chicago, US; Padua, IT)                                                               |      |
| Variability and reproducibility of segmental longitudinal strain measurements, a report from the second intervendor comparison study                                                        | P97  |
| O. Mirea, E.D. Pagourelas, J. Duchenne, J.D. Thomas, L.P. Badano, J.U. Voigt (Leuven, BE; Chicago, US; Padua, IT)                                                                           |      |
| Systolic and diastolic left atrial deformation parameters before and after optimization of dual chamber pacemaker parameters                                                                | P98  |
| A. Karuzas, M. Vezelis, M. Zemaitis, E. Rumbinaite, K. Baronaite-Dudoniene, A. Puodziukynas, J.J. Vaskelyte (Kaunas, LT)                                                                    |      |
| The timing of the post systolic shortening in prediction of scarred myocardium                                                                                                              | P99  |
| E. Nestaas, S. Sarvari, E. Hopp, O. Gjesdal, M.K. Smedsrud, K.H. Haugaa, T. Edvardsen (Oslo, NO)                                                                                            |      |
| Altered contribution of longitudinal and radial motion to right ventricular ejection and filling in heart transplant recipients                                                             | P100 |
| B.K. Lakatos, Z. Toser, M. Tokodi, A. Kosztin, B. Sax, B. Merkely, A. Kovacs (Budapest, HU)                                                                                                 |      |
| Left ventricular and atrial function in old patients underwent transcatheter aortic valve implantation, evaluated by two and three-dimensional speckle tracking at eighteen-month follow-up | P101 |
| R. Ancona, S. Comenale Pinto, P. Caso, M.G. Coppola, I. Monteforte, R. Calabro (Naples, IT)                                                                                                 |      |
| Age-related changes in left ventricular strain measured by speckle-tracking echocardiography and association with telomere length in healthy people                                         | P102 |
| E.V. Plokhova, D.U. Akasheva, O.N. Tkacheva, I.D. Strazhesko, E.N. Dudinskaya, A.S. Kruglikova, V.S. Pykhtina, L.I. Streltsova, S.A. Boytsov (Moscow, RU)                                   |      |
| Intracardiac speckle tracking echocardiography-based method for assessment of pulmonary vein isolation in patients with atrial fibrillation                                                 | P103 |
| D. Lebedev, A.V. Smorgon, S.Y.U. Usenkov, E.A. Archakov, R.E. Batalov, S.V. Popov (Tomsk, RU)                                                                                               |      |

15:30 - 16:00

How-to Session

MAHLER

## How to write an application for an EACVI grant – own experience

EACVI HIT (Heart Imagers of Tomorrow)



**Chairpersons: S. Loizos (Athens, GR)**

*How-to sessions provide practical details and tools or tips and tricks on a specific topic. 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.*

**Presenter:**

B.W. Michalski (Ksawerow, PL)

140

15:30 - 16:00

Clinical Cases

AGORA

## Valvular heart disease

**Chairpersons: M. Garbi (London, GB); C.M. Chow (Toronto, CA)**

*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.*

|       |                                                                                                                                                    |     |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 15:30 | <b>Panel of experts:</b><br>P. Unger (Brussels, BE); D. Mohty (Limoges, FR)                                                                        | 141 |
| 15:30 | <b>A sub-aortic valve mass in a rheumatoid arthritis patient: an unconventional mechanism of aortic regurgitation</b><br>L. Marques (Penafiel, PT) | 142 |
| 15:40 | <b>Symptomatic severe aortic regurgitation with coronary obstruction due to chronic type a dissection</b><br>Y. Yoshida (Fuchu-Shi, JP)            | 143 |
| 15:50 | <b>Mitral valve prolapse and ventricular tachycardia: a long-lasting love story</b><br>C. Venner (Nancy, FR)                                       | 144 |

16:00 - 18:05

Special Event

BEETHOVEN

## Inaugural session



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

|       |                                                                                                                                                                                     |     |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 16:00 | <b>Piano Performance by Luiza Borac</b>                                                                                                                                             | 145 |
| 16:20 | <b>EACVI Presidential welcome</b><br>G. Habib (Marseille, FR)<br>President of the European Association of Cardiovascular Imaging (EACVI)                                            | 146 |
| 16:30 | <b>ESC Presidential welcome</b><br>L. Badimon (Barcelona, ES)                                                                                                                       | 147 |
| 16:35 | <b>Welcome Address by the Local Hosts</b><br>A. Hagendorff (Leipzig, DE), R.S. Von Bardeleben (Mainz, DE)                                                                           | 148 |
| 16:40 | <b>Introduction of the Edler Lecture presenter</b><br>B.A. Popescu (Bucharest, RO)                                                                                                  | 149 |
| 16:45 | <b>Edler Lecture: "A 21st century manifesto for functional imaging"</b><br>A.G. Fraser (Cardiff, GB)                                                                                | 150 |
| 17:10 | <b>Presentation of Edler Diploma</b><br>B.A. Popescu (Bucharest, RO)                                                                                                                | 151 |
| 17:15 | <b>Presentation of the Nominated Honorary Members</b><br>B.A. Popescu (Bucharest, RO), G. Habib (Marseille, FR)                                                                     | 152 |
| 17:20 | <b>EACVI Research &amp; Training Grant Winners</b><br>G. Habib (Marseille, FR)                                                                                                      | 153 |
| 17:25 | <b>Results of the Elections: EACVI Board 2016-2018</b><br>P. Lancellotti (Liege, BE)                                                                                                | 154 |
| 17:32 | <b>EACVI Echo section:</b><br>Congress programme highlights in echo<br>Transfer of echo section leadership<br>B. Cosyns (Brussels, BE), E. Donal (Rennes, FR)                       | 155 |
| 17:37 | <b>EACVI CMR section:</b><br>Congress programme highlights in CMR<br>Transfer of CMR section leadership<br>S. Plein (Leeds, GB), C. Bucciarelli-Ducci (Bristol, GB)                 | 156 |
| 17:42 | <b>EACVI Nuclear and CT section:</b><br>Congress programme highlights in Nuclear/CT<br>Transfer of Nuclear/CT section leadership<br>D. Neglia (Pisa, IT), O. Gaemperli (Zurich, CH) | 157 |
| 17:47 | <b>Transfer of Presidency</b><br>G. Habib (Marseille, FR)                                                                                                                           | 158 |
| 17:55 | <b>Opening Address</b><br>B.A. Popescu (Bucharest, RO)                                                                                                                              | 159 |

After the session a networking reception will be held in the exhibition area

# EuroEcho Imaging 2016



## Wednesday Posters



**FOLLOW US LIVE**  
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WEDNESDAY  
SESSIONS

WEDNESDAY  
POSTERS

THURSDAY  
SESSIONS

THURSDAY  
POSTERS

FRIDAY  
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FRIDAY  
POSTERS

SATURDAY  
SESSIONS

SATURDAY  
POSTERS

INDEX

## HIT MODERATED POSTER SESSIONS

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

12:45-13:45 - HIT moderated posters: imaging of tomorrow

Meet the presenters by their poster.

## HIT POSTER SESSIONS

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

12:45-13:45 - Lunchtime HIT Poster hosts.

Meet the presenters by their poster.

## ABSTRACT POSTER SESSIONS

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

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

## HIGH SCORE POSTER

Look out for these abstracts acknowledged by the reviewing committee.

## Missed a presentation?

After the congress, abstracts will be available online and a selection of slide presentations will be available only to EACVI Members.

**More information on the ESC-EACVI Stand.**

## IMPORTANT INFORMATION FOR PRESENTERS

Poster presenters must set up poster between 08:30 - 09:00.

All posters not affixed by 12:45 may be considered as no-show.

Posters must be removed from the area between 16:00-16:30.

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

09:00 - 16:00

Poster Session

POSTER AREA

## HIT Poster session I

EACVI HIT (Heart Imagers of Tomorrow)



### Lunch time HIT Poster hosts - 12:45 - 13:45.

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R.C. Vidal Perez (Santiago De Compostela, ES); S. Loizos (Athens, GR); J. Grapsa (London, GB);  
M.H. Miglioranza (Porto Alegre, BR); T. Lapinskas (Kaunas, LT); S. Stoebe (Leipzig, DE)

- E/e\*SV is a better predictor of outcome than E/e' in patients with heart failure with preserved left ventricular ejection fraction** P161  
T. Kanda, M. Fujita, O. Iida, M. Masuda, S. Okamoto, T. Ishihara, K. Nanto, M. Uematsu (Amagasaki, JP)
- Subclinical left atrial and left ventricular structural and functional abnormalities in postmenopausal women with abdominal obesity** P162  
A. Borizanov, E. Kinova, A. Goudev (Sofia, BG)
- Central obesity and hypertension: double burden to the left atrium of postmenopausal women** P163  
A. Borizanov, E. Kinova, A. Goudev (Sofia, BG)
- Comparison between 3-D blood pressure pulse analyser and pulsed-wave doppler echocardiography derived hemodynamic parameters in cardiac surgery patients - a pilot study** P164  
R. Zayat, A. Aljalloud, G. Musetti, H.J. Kang, S.H. Jansen-Park, A. Goetzenich, R. Autschbach, N. Hatam (Aachen, DE; Ansan-si, KP)
- Paced-induced heart electrical activation modifies the orientation of left ventricular flow momentum: novel insights from echocardiographic particle image velocimetry** P165  
F. Bianco, V. Cicchitti, V. Bucciarelli, E. Di Girolamo, G. Tonti, R. De Caterina, S. Gallina (Chieti, IT)
- Correlations between echocardiographic and CMR-derived parameters of right ventricular size and function in patients with COPD** P166  
M. Hajdu, V. Vertes, Z.S. Meiszterics, S. Szabados, T. Simor, R. Faludi (Pecs, HU)
- Longitudinal strain analysis allows the identification of subclinical deterioration of right ventricular myocardial function in patients with cancer therapy-related left ventricular dysfunction** P167  
D.A. Cherata, D. Muraru, C. Palermo, G. Romeo, P. Aruta, G. Binotto, G. Semenzato, D. Carstea, S. Iliceto, L.P. Badano (Padua, IT; Craiova, RO)
- Effect of atrial fibrillation to pulmonary hypertension and right ventricular function in patient with severe mitral stenosis** P168  
R. Ariani, A.M. Soesanto (Jakarta, ID)
- Evolution of etiologic spectrum and clinical features of mitral regurgitation since 2007 until 2015** P169  
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- Tricuspid annulus area correlates more with right atrial than right ventricular volumes in patients with different mechanisms of functional tricuspid regurgitation: a 3D echocardiography study** P170  
E. Surkova, J. Bidviene, G. Brunello, F. Veronesi, G. Cavalli, V. Sokalskis, P. Aruta, L.P. Badano, D. Muraru (Padua and Bologna, IT; Kaunas, LT; Riga, LV)
- The effect of hemolysis on serum lipid levels in patients suffering from severe paravalvular leakage** P171  
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- Right ventricular dysfunction in patients with hypertrophic cardiomyopathy** P172  
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- Interest of variations of echocardiographic parameters after initiation of specific therapy in the risk stratification of patients with pulmonary hypertension** P173  
M. Di Meglio, C. Venner, O. Huttin, A. Guillaumot, A. Chaouat, F. Chabot, Y. Juilliere, C. Selton-Suty (Vandoeuvre les Nancy, FR)
- Comparison of left and right atrial size and function in elite adolescent male football players** P174  
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- Do pocket-size imaging devices allow for reliable bedside vascular screening?** P175  
D. Filipiak, J.D. Kasprzak, P. Lipiec (Lodz, PL)
- Evolution of tricuspid regurgitation after pulmonary valve replacement for pulmonary regurgitation in repaired tetralogy of fallot.** P176  
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- Assessment of the positive work and mechanical dispersion: new methods to quantify left ventricular function in aortic stenosis** P181  
A. Hubert, E. Galli, G. Bouzille, E. Samset, E. Donal (Rennes, FR; Oslo, NO)

## HIT Poster session I (continued)

EACVI HIT (Heart Imaging of Tomorrow)



### Atrial function in Takotsubo cardiomyopathy: deformation analysis

M. Tavares Da Silva, G. Pestana, C. De Sousa, R. Pinto, V. Ribeiro, M. Vasconcelos, P.B. Almeida, F. Macedo, M.J. Maciel (Porto, PT)

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### Cardiac syndrome X- proven left ventricular perfusion and kinetic abnormalities by SPECT-CT and pharmacological dobutamine stress test

S.T. Svetlin Nedkov Tsonev, E. Manov, N. Runev, R. Shabani, M. Gartcheva, T. Donova, I. Petrov (Sofia, BG)

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### Impact of frailty assessment on myocardial perfusion imaging results: a prospective cohort study

A. Ahmed, M. Al-Mallah (Riyadh, SA)

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Poster Session

POSTER AREA

## Poster session I

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- Atrial electromechanical delay, Left Atrial mechanical functions and longitudinal left ventricular strain in pre-diabetic patients** PI86  
T. Moustafa, R. Mahfouz, A. Elzayat, M. Goda, M. Gad (Zagazig, EG)
- A web-based platform for e-training in echocardiography** PI87  
R. Conte, F. Sansone, F. Napoli, A. Tonacci, M. Raciti, P. Landi, A. Grande, L. Ait-Ali (Pisa, IT)

### Assessment of morphology and function

- Right atrial size as a marker of success in electrical cardioversion in patients with persistent atrial fibrillation** PI88  
C. Doering, K. Sveric, U. Richter, R.H. Strasser, C. Wunderlich (Dresden, DE)
- Echocardiographic assessment of left atrial dimensions and function in a healthy population** PI89  
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- Impact of carotid artery revascularization on the cognitive and functional outcome and cerebral flow on TCD and brain MRI in patients with symptomatic carotid artery stenosis: a preliminary report.** PI90  
R. Badacz, A. Kablak-Ziembicka, M. Urbanczyk-Zawadzka, R.P. Banys, P. Musialek, P. Pieniazek, S. Mleczko, K. Zmudka, T. Przewlocki (Krakow, PL)
- Aortic elasticity is impaired in hypereosinophilic syndrome** PI91  
A. Nemes, I. Marton, P. Domsik, A. Kalapos, E. Posfai, S. Modok, Z. Borbenyi, T. Forster (Szeged, HU)
- Disturbed intracardiac flow transit prognosticates early decompensation in dilated cardiomyopathy** PI92  
T. Uejima, L. Takahashi, H. Nishikawa, H. Semba, H. Sawada, T. Yamashita (Tokyo, JP)
- Ultrasound guided treatment in acute heart failure** PI93  
J. Oehman (Turku, FI)
- Determinants of impaired global longitudinal function in middle-aged subjects free of cardiovascular disease** PI94  
I. Ceponiene, R. Jurkevicius, J. Petkeviciene, O. Gustiene, E. Tamuleviciute-Prasciene, J. Motiejunaite, R. Slapikas (Kaunas, LT)
- Left ventricular remodeling in asymptomatic heart failure: classification and prognostic evaluation** PI95  
I. Fabiani, N.R. Pugliese, S. La Carrubba, F. Antonini Canterin, P. Colonna, P. Caso, F. Benedetto, R. Citro, S. Carerj, V. Di Bello (Pisa, Palermo, Pordenone, Bari, Naples, Reggio Calabria, Salerno and Messina, IT)
- Restricted displacement of lateral right ventricular wall: a physiopathological explanation of geometrical and functional cardiac changes after cardiac surgery.** PI96  
A. Garcia Martin, J.L. Moya Mur, C. Lazaro Rivera, L.M. Rincon Diaz, J. Miguelena Hycka, A. Garcia Lledo, J.J. Jimenez Nacher, C. Fernandez-Golfín, J. Rodriguez-Roda, J.L. Zamorano (Madrid and Alcala de Henares, ES)
- A novel method to image intracardiac flow stagnation for the risk stratification for thrombosis** PI97  
H. Nishikawa, T. Uejima, L. Takahashi, H. Semba, H. Sawada, T. Yamashita (Tokyo, JP)

### Ischaemic heart disease

- Magnetic resonance imaging of anomalous origin of the left coronary artery from the pulmonary artery in children older than 4 months** PI98  
A.J.R. Jurko, A. Jurko, T. Jurko, J. Mistinova-Polakova (Martin, SK)
- Coronary flow reserve is improved by LDL apheresis in patients with familial hypercholesterolemia and chronic Ischaemic heart disease** PI99  
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- High velocities in the proximal part of the coronary arteries during routine echocardiography can predict nearest prognosis** P200  
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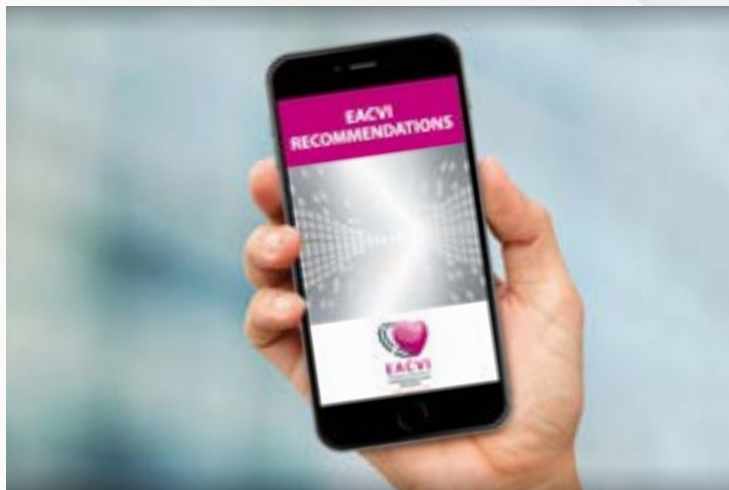
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# EuroEcho Imaging 2016



## Thursday Sessions



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WEDNESDAY  
SESSIONS

WEDNESDAY  
POSTERS

THURSDAY  
SESSIONS

THURSDAY  
POSTERS

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POSTERS

SATURDAY  
SESSIONS

SATURDAY  
POSTERS

INDEX

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IMAGING CAMPUS I



Objectives:

- Percutaneous Mitral Valve Repair therapy and patient screening overview.
- Hands-on tutorials with Echo Workstation: TTE/TEE screening.
- Hands-on tutorials with Percutaneous Mitral Valve Repair system: preparation, introduction, steering and grasping on the model. Training managers.

09:00 - 10:30

## Understanding Echo guidance for Percutaneous Mitral Valve Repair. Patients screening and procedure

Chairperson: F. Kreidel (Hamburg, DE)

11:00 - 12:30

## Understanding Echo guidance for Percutaneous Mitral Valve Repair. Patients screening and procedure

Chairperson: P. Nikolai (Stuttgart, DE)

14:00 - 15:30

## Understanding Echo guidance for Percutaneous Mitral Valve Repair. Patients screening and procedure

Chairperson: P. Nikolai (Stuttgart, DE)

16:00 - 17:30

## Understanding Echo guidance for Percutaneous Mitral Valve Repair. Patients screening and procedure

Chairperson: R.S. Von Bardeleben (Mainz, DE)

## EACVI Imaging Campus - HIT Session

EACVI HIT (Heart Imagers of Tomorrow)

## IMAGING CAMPUS 2



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

09:00 - 10:30

### EACVI HIT workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners

Presenters: 310  
D. Muraru (Padua, IT); M.M. Gurzun (Bucharest, RO); S. Wright (London, GB)

11:00 - 12:30

### EACVI HIT workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners

Presenters: 355  
I. Simova (Sofia, BG); N. Padmanaban (Abudhabi, AE); A. Smith (Barnet, GB)

14:00 - 15:30

### EACVI HIT workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners

Presenters: 428  
M. Cameli (Certaldo, IT); C. Cirillo (Napoli, IT); B. Martin (London, GB)

16:00 - 17:30

### EACVI HIT workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners

Presenters: 434  
C. Cirillo (Napoli, IT); F. Flachskampf (Uppsala, SE); S. Giannaris (London, GB)

Sponsored by TomTec Imaging Systems GmbH

IMAGING CAMPUS 3



09:00 - 10:30

## Automated Strain analysis for Cardio-Oncology in practice

Chairperson: S. Kapetanakis (London, GB)

Global longitudinal Strain is a recommended marker for cardiac function monitoring during cancer treatment. Fast and reproducible measurements are the basic requirement to bring this parameter into daily clinical routine. Participants of this session will learn how to measure strain easily as part of their routine review process. Measurement results will be compared with prior examinations.

11:00 - 12:30

## Pulmonary Hypertension – Comprehensive evaluation of the Right Ventricle

Chairperson: D. Muraru (Padua, IT)

Right ventricular (RV) failure is the main cause of death of patients with pulmonary hypertension. Due to its complex shape the quantification of RV size and function is challenging. Recently, EACVI/ASE guidelines recommended 3D echocardiography and strain analysis for a more accurate assessment of RV performance. The participants will receive an overview on the state-of-the-art echocardiographic assessment of RV (including clinical cases, acquisition tips, image analysis and interpretation), followed by dedicated hands-on training to obtain 3D RV volumes and ejection fraction using latest software equipment. Target audience: echo-cardiographers, sonographers, cardiologists, pulmonary hypertension and congenital heart disease specialists, anesthesiologists.

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08:30 - 10:00

Main Session

BEETHOVEN

## Multimodality imaging for stratifying prognosis of sudden cardiac death

Chairpersons: M. Galderisi (Naples, IT); B.A. Popescu (Bucharest, RO)

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|       | T. Edvardsen (Oslo, NO)         |     |

08:30 - 10:00

Clinical Imaging

BACH

## Clinical imaging in atrioventricular valve percutaneous intervention

Chairpersons: R.S. Von Bardeleben (Mainz, DE); J. Hung (Boston, US)

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|       | E. Brochet (Paris, FR)                                                               |     |

08:30 - 10:00

Symposium

MAHLER

## Cardiac resynchronisation update

Chairpersons: E. Donald (Rennes, FR); G. Hindricks (Leipzig, DE)

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08:30 - 10:00

Symposium

WAGNER

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Chairpersons: M.K. Friedberg (Toronto, CA); T. Bharucha (Southampton, GB)

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|       | P. Barker (Durham, US)                                                                                  |     |

08:30 - 10:00

Symposium

BRAHMS

## Do the right thing: Imaging the right ventricle

Joint session with the Dutch Working Group of Echocardiography



Chairpersons: J. Grapsa (London, GB); J. Van Melle (Groningen, NL)

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08:30 - 10:00

Symposium

SCHUMANN

## Imaging restrictive cardiomyopathy

Joint session with the ESC Working Group on Myocardial and Pericardial Diseases.



Chairpersons: P. Nihoyannopoulos (London, GB); A.D. Ristic (Belgrade, RS)

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08:30 - 10:00

Teaching Course

STRAUSS

## Basics of cardiac ultrasound

Chairpersons: A.S. Brown (Dublin, IE); P. Lipiec (Lodz, PL)

*Core Curriculum: 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.*

- |       |                                                                       |     |
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|       | L. Gargani (Pisa, IT)                                                 |     |
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|       | A. Stefanidis (Athens, GR)                                            |     |
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|       | K.F. Fox (London, GB)                                                 |     |

08:30 - 10:00

Rapid Fire Abstract

AGORA

## Emerging imaging techniques

Fast-paced and interactive oral presentation on research highlights, followed by discussions animated by two experts chairing the session!

Chairpersons: S. Kaul (Portland, US); G. Karatasakis (Athens, GR)

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10:00 - 11:00

Special Event

STRAUSS

## EACVI General Assembly

Updates and latest achievements and future developments of the association. All EACVI Members are welcome to attend.



10:00 - 11:00

Abstract Session

AGORA

## Young Investigator Award session - Basic Science

Chairpersons: J.M. Knuuti (Turku, FI); K.H. Haugaa (Oslo, NO)

Judge(s): A. Klein (Cleveland, US); A.G. Fraser (Cardiff, GB); M.J. Monaghan (London, GB); D. Neglia (Pisa, IT)

Four finalists, will present their research in oral session, moderated by senior faculty members and judged by a panel of experts who will determine a First Prize winner. The winner of this session will attend the American Society of Echocardiography Meeting 2017 (ASE).

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10:10 - 10:55

How-to Session

MAHLER

## How to prepare for EACVI echo certification exams

EACVI HIT (Heart Imagers of Tomorrow)



**Chairperson: E. Surkova (Padua, IT)**

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

10:10

**Presenter:**

A. Stefanidis (Athens, GR)

315

11:00 - 12:30

Main Session

BEETHOVEN

## Aorta in aortic valve disease

**Chairpersons: A. Pasquet (Brussels, BE); A. Della Corte (Naples, IT)**

11:00

**Phenotypes of aorta in AVD insights from imaging.**

M.M. Bissell (Oxford, GB)

316

11:22

**Bicuspid and the aorta: dangerous liaisons.**

H. Michelena (Rochester, US)

317

11:45

**What the surgeon needs to know about aorta before aortic valve surgery?**

G. Teixido Tura (Barcelona, ES)

318

12:07

**What the interventional cardiology needs to know about the aorta before TAVI.**

R. Hahn (New York, US)

319

11:00 - 12:30

Clinical Imaging

BACH

## Imaging in cardiac hypertrophy

This Session is supported by Shire in a form of an educational grant

**Chairpersons: N. Cardim (Lisbon, PT); A.N. Kitsiou (Athens, GR)**

11:00

**New recommendations for imaging hypertension.**

M. Galderisi (Naples, IT)

321

11:22

**The grey zone in Athlete's heart.**

A.D.Andrea (Naples, IT)

322

11:45

**Hyperthrophic cardiomyopathy.**

S. Nagueh (Houston, US)

323

12:07

**FABRY disease.**

T. Palecek (Prague, CZ)

324

11:00 - 12:30

Special Session

MAHLER

## Cardiac Imaging Quiz

Mobile App Interactive Session



**Chairpersons: B. Cosyns (Brussels, BE); L. Badano (Padova, IT); V. Delgado (Leiden, NL)**

11:00

**Challenging cases in transthoracic echocardiography.**

R. Fontes Carvalho (Porto, PT)

326

11:22

**Diagnostic conundrums in transesophageal echo .**

F. Flachskampf (Uppsala, SE)

327

11:44

**Solving diagnostic riddles in Cardiac CT images.**

J.F. Rodriguez Palomares (Barcelona, ES)

328

12:07

**Puzzling clinical cases of cardiac magnetic resonance.**

H. Thiele (Luebeck, DE)

329

11:00 - 12:30

Debate Session

WAGNER

## Safety of cardiac imaging: danger zone

Chairpersons: J.D. Thomas (Chicago, US); B.P. Paelinck (Edegem, BE)

|       |                                                                                           |     |
|-------|-------------------------------------------------------------------------------------------|-----|
| 11:00 | Cardiovascular magnetic resonance is safe. Pro.<br>S. Plein (Leeds, GB)                   | 330 |
| 11:22 | Cardiovascular magnetic resonance may harm. Contra.<br>A. Nchimi (Luxembourg, LU)         | 331 |
| 11:45 | Decrease of irradiation: when enough is not enough. Pro.<br>J.S. Schwitter (Lausanne, CH) | 332 |
| 12:07 | Decrease of irradiation: when enough is not enough. Contra.<br>J.M. Knuuti (Turku, FI)    | 333 |

11:00 - 12:30

Symposium

BRAHMS

## Mitral stenosis

Joint session with the Moroccan Working Group on Echocardiography



Chairpersons: To be announced; G. Habib (Marseille, FR)

|       |                                                                                                                                  |     |
|-------|----------------------------------------------------------------------------------------------------------------------------------|-----|
| 11:00 | Assessment of mitral valve morphology in MS: Patient selection for Percutaneous mitral commissurotomy.<br>L.E. Sade (Ankara, TR) | 334 |
| 11:22 | Quantification of MS: pitfalls and limitations.<br>A. Aouad (Rabat, MA)                                                          | 335 |
| 11:45 | Stress echocardiography in MS.<br>H. Belghiti (Rabat, MA)                                                                        | 336 |
| 12:07 | Role of echography during percutaneous mitral commissurotomy.<br>E. Brochet (Paris, FR)                                          | 337 |

11:00 - 12:30

Symposium

SCHUMANN

## Is advanced non-invasive imaging a cost-effective approach in patients with Ischaemic Heart Disease (IHD)?

Joint session with the European Association of Nuclear Medicine (EANM)



Chairpersons: D. Neglia (Pisa, IT); M. Hacker (Vienna, AT)

Joint Session

|       |                                                                                                                   |     |
|-------|-------------------------------------------------------------------------------------------------------------------|-----|
| 11:00 | Cost-effectiveness of advanced cardiac imaging in IHD: state of the art.<br>S.R. Underwood (London, GB)           | 338 |
| 11:22 | In which patients is NUCLEAR imaging more cost-effective?<br>H.J. Verberne (Amsterdam, NL)                        | 339 |
| 11:45 | In which patients is cardiovascular magnetic resonance more cost-effective?<br>C. Bucciarelli-Ducci (Bristol, GB) | 340 |
| 12:07 | In which patients is Computed Tomography more cost-effective than stress imaging?<br>D. Andreini (Milan, IT)      | 341 |

11:00 - 12:30

Teaching Course

STRAUSS

## Basics of 2D cardiac assessment

**Chairpersons: N. Liel-Cohen (Omer, IL); G. Athanassopoulos (Pireas, GR)**

*Core Curriculum : 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 | <b>Quantitation of left ventricular dimensions and function.</b>  | 342 |
|       | A.N. Neskovic (Belgrade, RS)                                      |     |
| 11:22 | <b>Quantitation of right ventricular dimensions and function.</b> | 343 |
|       | M. Cameli (Certaldo, IT)                                          |     |
| 11:45 | <b>Left and right atrium: size and function.</b>                  | 344 |
|       | A. Rossi (Verona, IT)                                             |     |
| 12:07 | <b>4-Assessment of diastolic function.</b>                        | 345 |
|       | C.C. Beladan (Bucharest, RO)                                      |     |

11:00 - 12:30

Rapid Fire Abstract

AGORA

## Cardiac imaging with computed tomography and radionuclide techniques: usefulness in miscellaneous patient subsets

Fast-paced and interactive oral presentation on research highlights, followed by discussions animated by two experts chairing the session!

**Chairpersons: F. Pugliese (London, GB); G. Pontone (Milan, IT)**

|       |                                                                                                                                                                                                          |     |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 11:00 | <b>Panel of experts:</b>                                                                                                                                                                                 | 346 |
|       | P. Maurovich-Horvat (Budapest, HU); K. Nieman (Stanford, US)                                                                                                                                             |     |
| 11:00 | <b>A novel CT calcium-based approach for predicting mitral stenosis</b>                                                                                                                                  | 347 |
|       | S. Setiawan, S.H. Ewe, J.C. Allen, V. Chao, C.Y. Lee, F. Tan, S.T. Lim, K.W. Ho, J.L. Soon, S.Y. Tan (Singapore, SG)                                                                                     |     |
| 11:11 | <b>Value of 18-fluoro-2-deoxyglucose positron emission tomography-computed tomography in the diagnosis of native, prosthetic and device related infective endocarditis</b>                               | 348 |
|       | M. Castineira Busto, M.A. Martinez Monzonis, V. Pubul Nunez, A. Martinez De La Alegria Alonso, C. Pena Gil, M. Alvarez Barredo, M.A. Bandin Dieguez, J.R. Gonzalez Juanatey (Santiago de Compostela, ES) |     |
| 11:22 | <b>Pulmonary veins anatomy variants assessment using CT in patients with atrial fibrillation.</b>                                                                                                        | 349 |
|       | I. Wozniak-Skowerska, M. Skowerski, A. Hoffmann, S. Nowak, M. Faryan, J. Kolasa, T. Skowerski, M. Sosnowski, A. Wnuk-Wojnar, K. Mizia-Stec (Katowice, PL)                                                |     |
| 11:33 | <b>Aortic valve area using cardiac CT to improve the validity of LVOT measurement (ACTIV-LVOT study)</b>                                                                                                 | 350 |
|       | E. Alskaf, A. Kardos (Milton Keynes, GB)                                                                                                                                                                 |     |
| 11:45 | <b>Impact of early coronary revascularization on long-term outcomes in patients with myocardial ischemia on myocardial perfusion single-photon emission computed tomography</b>                          | 351 |
|       | H.J. Boiten, R. Valkema, J.C. Van Den Berge, R.T. Van Domburg, F. Zijlstra, A.F.L. Schinkel (Rotterdam, NL)                                                                                              |     |
| 11:56 | <b>Is there a correlation between coronary calcium score and high sensitivity c-reactive protein in patients with suspected coronary artery disease?</b>                                                 | 352 |
|       | A. Ahmed, A. Suleiman, S. Almohdar, A. Aljizeeri, O. Smete, R. Abazid, A. Alsaileek, M. Alharthi, M. Al-Mallah (Riyadh and Qassim, SA; Abu Dhabi, AE)                                                    |     |
| 12:07 | <b>Coronary CT angiography for the assessment of cardiac allograft vasculopathy after heart transplantation</b>                                                                                          | 353 |
|       | M. Karolyi, A. Bartykowski, M. Kolosvary, I. Kocsmar, B. Szilveszter, A. Jermendy, J. Karady, B. Sax, O. Balogh, B. Merkely, P. Maurovich-Horvat (Budapest, HU)                                          |     |
| 12:18 | <b>Correlation between the epicardial fat volume, assessed by coronary computed tomography, and coronary plaque vulnerability in acute coronary syndromes</b>                                            | 354 |
|       | T. Benedek, N. Rat, M. Morariu, Z.S. Suci, A. Stanescu, M. Dobra, D. Opincariu, I. Benedek (Targu Mures, RO)                                                                                             |     |

12:45 - 13:45

Satellite Symposium

MAHLER

## New approach for advance cardiac function: new assessments of myocardial function and cardiac flow Sponsored by Toshiba Medical Systems

**Chairpersons: H.J. Nesser (Linz, AT); P. Nihoyannopoulos (London, GB)**

*Learn about new applications and techniques to assess myocardial functionally and cardiac flow analysis.  
Learn clinical applications and the value in sports medicine.*

|       |                                                                                                            |     |
|-------|------------------------------------------------------------------------------------------------------------|-----|
| 12:45 | <b>Clinical value of advanced cardiac analysis using 2D and 3D speckle tracking for the daily routine.</b> | 356 |
|       | L. Perez De Isla (Madrid, ES)                                                                              |     |
| 13:05 | <b>New assessments of myocardial function and cardiac flow.</b>                                            | 357 |
|       | H.J. Nesser (Linz, AT)                                                                                     |     |
| 13:25 | <b>Advanced cardiac analysis and its value in sports medicine.</b>                                         | 358 |
|       | G.E. Pieles (Bristol, GB)                                                                                  |     |

12:45 - 13:45

Satellite Symposium

WAGNER

## What's new in peri-operative and peri-interventional Live 3D TEE, in cardio-oncology and in fusion imaging Sponsored by Philips

**Chairpersons: M.J. Monaghan (London, GB); R.S. Von Bardeleben (Mainz, DE)**

*Philips Satellite Symposium will focus on following three topics:*

- 1. Lessons learned and latest advances associated with the use of LIVE three dimensional TEE echo in operating room as well as in the cathlab. The launch of the next generation of LIVE 3D TEE transducer and new intuitively simple tools to manipulate 3D data give a good chance to reflect on how these technologies change echo.*
- 2. Latest advances in fusion of LIVE 3D transesophageal echo with fluoroscopy. How periprocedural guidance can be further improved.*
- 3. Monitoring the status of the heart of patients undergoing cancer therapy. Left heart volumetry together with left ventricle deformation assessment allow early detection of cardiotoxicity and potential treatment modification.*

|       |                                                                                                                                   |     |
|-------|-----------------------------------------------------------------------------------------------------------------------------------|-----|
| 12:45 | <b>Opening remarks.</b>                                                                                                           | 359 |
|       | M.J. Monaghan (London, GB)                                                                                                        |     |
| 12:48 | <b>How peri-operative and peri-interventional Live 3D TEE is evolving. Latest advances illustrated by clinical cases.</b>         | 360 |
|       | D. Berson (Austin, US)                                                                                                            |     |
| 13:06 | <b>Advances in fusion of Live 3D transesophageal echo with fluoroscopy. How peri-procedural guidance can be further improved.</b> | 361 |
|       | P. Biaggi (Zurich, CH)                                                                                                            |     |
| 13:24 | <b>Clinical benefits of left heart volumetry and left ventricle deformation assessment for patients during cancer therapy.</b>    | 362 |
|       | T. Lopez Fernandez (Madrid, ES)                                                                                                   |     |
| 13:42 | <b>Closing remarks.</b>                                                                                                           | 363 |
|       | R.S Von Bardeleben (Mainz, DE)                                                                                                    |     |

12:45 - 13:45

Satellite Symposium

SCHUMANN

## Echocardiography 2016 - Is it still acceptable to not use contrast and accept suboptimal, non-diagnostic images? Sponsored by Bracco

**Chairperson: H.H. Becher (Edmonton, CA)**

*Understanding the clinical value and cost efficiency of contrast enhanced echocardiography and the respective clinical data and guidelines.*

|       |                                                                                                           |     |
|-------|-----------------------------------------------------------------------------------------------------------|-----|
| 12:45 | <b>Contrast Echocardiography in Cardiology: an update.</b>                                                | 364 |
|       | H.H. Becher (Edmonton, CA)                                                                                |     |
| 13:05 | <b>The Incremental Value of Contrast Enhanced Stress Echocardiography in Patients with suspected CAD.</b> | 365 |
|       | R. Senior (London, GB)                                                                                    |     |
| 13:25 | <b>Conclusion: is it really acceptable to not use contrast?</b>                                           | 366 |
|       | H.H. Becher (Edmonton, CA); R. Senior (London, GB)                                                        |     |
| 13:35 | <b>Q/A.</b>                                                                                               | 367 |

12:45 - 13:45

Rapid Fire Abstract

AGORA

## Coronary artery disease: the crucial role of imaging

Fast-paced and interactive oral presentation on research highlights, followed by discussions animated by two experts chairing the session!

**Chairpersons: M. Dorobantu (Bucharest, RO); E. Galli (Avignon, FR)**

- |       |                                                                                                                                                                                                                                                                                                                        |     |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 12:45 | <b>Panel of experts:</b><br>J. Sonck (Asse, BE); R. Sicari (Pisa, IT)                                                                                                                                                                                                                                                  | 368 |
| 12:45 | <b>Left ventricular longitudinal strain is superior to blood biomarkers in prediction of poor exercise capacity in patients with a first-ever STEMI</b><br>M. Przewlocka-Kosmala, A.K. Woznicka, A. Rojek, A. Mysiak, W. Kosmala (Wroclaw, PL)                                                                         | 369 |
| 12:57 | <b>Early identification of STEMI patients treated with pPCI at risk to develop heart failure during follow-up: speckle tracking echocardiographic study</b><br>D. Trifunovic, G. Krljanac, L. Savic, M. Asanin, R. Lasica, D. Matovic, J. Stepanovic, G. Stankovic, I. Mrdovic (Belgrade, RS)                          | 370 |
| 13:09 | <b>The clinical and cost effectiveness of stress echocardiography in patients with new onset chest pain and high pre-test probability.</b><br>A. Papachristidis, D. Casar Demarco, D. Roper, I. Tsironis, M. Papitsas, J. Byrne, K. Alfakih, M.J. Monaghan (London, GB)                                                | 371 |
| 13:21 | <b>PROSPECT CMR study: PROgnostic Stratification in Patients with ST-Elevation myoCardialinfaction over Transthoracic echocardiography by CMR</b><br>G. Pontone, D. Andreini, G. Ferro, A.I. Guaricci, M. Guglielmo, S. Mushtaq, A. Baggiano, P. Carita', M. Verdecchia, M. Pepi (Milan, Palermo, Bari and Chieti, IT) | 372 |
| 13:33 | <b>Exercise induced changes in global longitudinal strain in patients with chest pain and normal troponin-t may identify and rule out coronary artery disease.</b><br>S. Karlsen, T. Dahlslett, B. Grenne, B. Sjoli, O.A. Smiseth, T. Edvardsen, H. Brunvand (Arendal, Trondheim and Oslo, NO)                         | 373 |

12:45 - 13:45

Moderated Posters

MODERATED POSTER AREA

## Congenital heart disease

**Chairpersons: L. Mertens (Toronto, CA); L. Lopez (Miami, US)**

Presenters will highlight key points of their research and answer questions from two moderators in front of an audience during official lunch breaks.

- |  |                                                                                                                                                                                                                                                                                                                       |      |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
|  | <b>Classic-pattern dyssynchrony in adult patients with a Fontan circulation</b><br>A. Rosner, T. Khalapyan, H. Dalen, D. Mc Elhinney, C. Haeffele, S. Chen, S. Fernandes, B. Bijmens, M. Friedberg, G.K. Lui (Tromso and Levanger, NO; Palo Alto, US; Barcelona, ES; Toronto, CA)                                     | P374 |
|  | <b>Outcome of pregnancy in patients with coarctation of aorta</b><br>A. Quattrone, A. Skeide, H. Lindberg, A.S. Letting, E. Langsaeter, M.E. Estensen (Oslo, NO)                                                                                                                                                      | P375 |
|  | <b>Diffuse myocardial fibrosis is not associated with decreased contractility: a magnetic resonance T1 mapping and feature tracking study</b><br>S. Ide, D. Yim, E. Riesenkampff, M. Seed, S.J. Yoo, L. Grosse-Wortmann (Toronto, CA)                                                                                 | P376 |
|  | <b>Cardiovascular abnormalities in patients with osteogenesis imperfecta: case-control study</b><br>R. Mata Caballero, V. Hernandez Jimenez, J. Saavedra, L. Molina, M.T. Alberca Vela, J. L Pais, J. Gorriz, C. Navea, I. Pavon, J.J. Alonso (Getafe and Mostoles, ES)                                               | P377 |
|  | <b>Serial assessment of left ventricular systolic function by speckle tracking in patients with coarctation of the aorta undergoing stenting</b><br>N.F.D.V. Aragao, J.N.V. Borgo, T.A. Davoglio, C.A. Jesus, A.C.G.P. Petisco, D.C. Le Bihan, R.B.M. Barreto, J.E. Assef, C.A. Pedra, S.R.F.F. Pedra (Sao Paulo, BR) | P378 |
|  | <b>Longitudinal function and ventricular dyssynchrony are restored in children with pulmonary stenosis after percutaneous balloon pulmonary valvuloplasty.</b><br>T. Moustafa, R. Mahfouz, M. Goda, M. Gad (zagazig, EG)                                                                                              | P379 |
|  | <b>Evaluation of the relationship between ventricular end-diastolic pressure and echocardiographic measures of cardiac function in adults with a Fontan circulation</b><br>R. Cordina, M. Ministeri, D.S. Celermajer, A. Uebing, W. Li (Sydney, AU; London, GB)                                                       | P380 |
|  | <b>Right ventricular remodelling after percutaneous pulmonary valve replacement in corrected tetralogy of Fallot with severe pulmonary regurgitation. Time matters.</b><br>E. Pagourelas, O. Mirea, J. Duchenne, W. Budts, J. Bogaert, M. Gewillig, J.U. Voigt (Leuven, BE)                                           | P381 |

## New advances in cardiovascular magnetic resonance

**Chairpersons:** F. Alpendurada (London, GB); M. Lombardi (San Donato Milanese, IT)

Presenters will highlight key points of their research and answer questions from two moderators in front of an audience during official lunch breaks.

|                                                                                                                                                                                                                                |             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <b>Three-dimensional wall shear stress assessed by 4Dflow CMR in bicuspid aortic valve disease</b>                                                                                                                             | <b>P382</b> |
| L. Dux-Santoy, J.F. Rodriguez-Palomares, R. Kale, G. Maldonado, F. Valente, G. Teixido-Tura, M. Huguet, L. Galian, L. Gutierrez, T. Gonzalez-Alujas, D. Garcia-Dorado, A. Evangelista (Barcelona, ES)                          |             |
| <b>Quantitative perfusion and extracellular volume after Kawasaki disease in children: tissue assessment beyond late gadolinium enhancement by cardiac MRI</b>                                                                 | <b>P383</b> |
| L.G.W. Grosse-Wortmann, P.M. Muthusami, E.R. Riesenkampff, D.Y. Yim, R.V.D.G. Van Der Geest, M.S. Seed, S.J.Y. Yoo (Toronto, CA)                                                                                               |             |
| <b>Flow patterns and rotational flow as predictors of ascending aorta dilatation in bicuspid aortic valve</b>                                                                                                                  | <b>P384</b> |
| L. Dux-Santoy, J.F. Rodriguez-Palomares, R. Kale, G. Maldonado, F. Valente, G. Teixido-Tura, M. Huguet, L. Galian, L. Gutierrez, T. Gonzalez-Alujas, D. Garcia-Dorado, A. Evangelista (Barcelona, ES)                          |             |
| <b>Interpretability of cardiac magnetic resonance in patients with adult congenital heart disease and an implantable electronic device</b>                                                                                     | <b>P385</b> |
| M. Yadava, M. Nugent, A. Krebsbach, C. Henrikson, C. Broberg (Portland, US)                                                                                                                                                    |             |
| <b>Is stress cardiovascular magnetic resonance really useful to detect ischemia and predict events in patients with different cardiovascular risk profile?</b>                                                                 | <b>P386</b> |
| P.M. Azcarate Aguero, A. Esteban Fernandez, J. Barba Cosials, G. Bastarrika Aleman, I. Coma-Canella (Logroño and Pamplona, ES)                                                                                                 |             |
| <b>Normal values left atrial strain using cardiovascular magnetic resonance feature tracking</b>                                                                                                                               | <b>P387</b> |
| R. Hinojar, C. Fernandez-Golfin, A. Gonzalez-Gomez, A. Esteban, M. Plaza Martin, M.A. Fernandez-Mendez, A. Garcia Martin, E. Casas, D. Del Val, S. Ruiz, A. Mejias, J.L. Moya, J.J. Jimenez Nacher, J.L. Zamorano (Madrid, ES) |             |
| <b>Ischaemic burden and LGE extension in CTO patients.</b>                                                                                                                                                                     | <b>P388</b> |
| L. Coppini, S. Moscatelli, G. Malanchini, M.P. Del Corral, B. Nardi, G. Gasparini, P. Presbitero, L. Monti (Milan, IT)                                                                                                         |             |
| <b>Reference values and clinical correlations of ascending aorta volumes by cardiac magnetic resonance imaging</b>                                                                                                             | <b>P389</b> |
| B. Igual Munoz, A.V.L.L. Valles Lluch, A.M.G. Maceira-Gonzalez, H.M.C. Morillas Climent, A.S.V. Sanchez-Vazquez, F.J.V.M. Valera Martinez, A.H. Hernandez, P.S.S. Sepulveda-Sanchis, A.M.A. Montero-Argudo (Valencia, ES)      |             |

14:00 - 15:30

Main Session

BEETHOVEN

## Multimodality imaging to optimize the management of atrial fibrillation

Chairpersons: K.H. Kuck (Hamburg, DE); A. Cohen (Paris, FR)

- |       |                                                                                                                       |     |
|-------|-----------------------------------------------------------------------------------------------------------------------|-----|
| 14:00 | Role of imaging to predict atrial fibrillation development.<br>L.E. Sade (Ankara, TR)                                 | 390 |
| 14:22 | Role of imaging to guide atrial fibrillation ablation.<br>T. Koliass (Ann Arbor, US)                                  | 391 |
| 14:45 | Additive role of imaging to predict thromboembolic risk.<br>O.A.B. Breithardt (Kassel, DE)                            | 392 |
| 15:07 | Multimodality imaging for assessing left atrial appendage morphology and guiding closure.<br>G. Di Salvo (London, GB) | 393 |

14:00 - 15:30

Clinical Imaging

BACH

## Heart failure and prosthetic valves

Chairpersons: B. Cosyns (Brussels, BE); R. Senior (London, GB)

- |       |                                                                                       |     |
|-------|---------------------------------------------------------------------------------------|-----|
| 14:00 | Acute heart failure in patients with prosthetic valves.<br>M. Vieira (Sao Paulo, BR)  | 394 |
| 14:22 | Chronic heart failure in patients with prosthetic valves.<br>A. Ionescu (Swansea, GB) | 395 |
| 14:45 | Prosthetic Patient Mismatch near extinction.<br>P. Pibarot (Quebec, CA)               | 396 |
| 15:07 | Perspectives in valve surgery.<br>K. Fattouch (Palermo, IT)                           | 397 |

14:00 - 15:30

Special Session

MAHLER

## Asymptomatic valvular heart disease

Joint session with the Korean Society of Echocardiography

Mobile App Interactive Session



Chairpersons: S.W. Park (Seoul, KR); D. Mohty (Limoges, FR)

- |       |                                                                           |     |
|-------|---------------------------------------------------------------------------|-----|
| 14:00 | Severe VHD : what is an asymptomatic patient?<br>F. Bandera (Varese, IT)  | 399 |
| 14:22 | What are guidelines telling us?<br>H. Baumgartner (Muenster, DE)          | 400 |
| 14:45 | What is the true place of stress echocardiography?<br>H. Jung (Seoul, KR) | 401 |
| 15:07 | Is multimodality imaging the key?<br>S.J. Park (Seoul, KR)                | 402 |

14:00 - 15:30

Debate Session

WAGNER

## Gladiator

Chairpersons: G. Maurer (Vienna, AT); J.L. Cavalcante (Pittsburgh, US)

- |       |                                                                                                      |     |
|-------|------------------------------------------------------------------------------------------------------|-----|
| 14:00 | Secondary mitral regurgitation: repair or replacement. Pro: repair.<br>J. Braun (Leiden, NL)         | 403 |
| 14:22 | Secondary mitral regurgitation: repair or replacement. Contra: Replacement.<br>E. Messas (Paris, FR) | 404 |
| 14:45 | Pocket size is the new standard. Pro.<br>S. Kaul (Portland, US)                                      | 405 |
| 15:07 | Pocket size device: I just need a stethoscope. Contra.<br>R.B.A. van den Brink (Amsterdam, NL)       | 406 |

14:00 - 15:30

Symposium

BRAHMS

## Dangerous liaison : imaging in cardio-renal disease

Chairpersons: L. Rudski (Cote St Luc, CA); P. Perrone-Filardi (Naples, IT)

|       |                                                                                                           |     |
|-------|-----------------------------------------------------------------------------------------------------------|-----|
| 14:00 | Cardiac imaging in severe renal disease : what to look for?<br>N. Abidin (Salford, GB)                    | 407 |
| 14:22 | Cardiac impact of haemodialysis arteriovenous fistulae<br>P. Unger (Brussels, BE)                         | 408 |
| 14:45 | Role of imaging in various cardio-renal syndrome.<br>Y. Shacham (Ramat Gan, IL)                           | 409 |
| 15:07 | Dialysis in heart failure patients : impact on cardiac imaging parameters.<br>A.A. Pasquet (Brussels, BE) | 410 |

14:00 - 15:30

Symposium

SCHUMANN

## New frontiers in congenital heart imaging

Chairpersons: J. Simpson (London, GB); P. Barker (Durham, US)

|       |                                                                                                  |     |
|-------|--------------------------------------------------------------------------------------------------|-----|
| 14:00 | Update on fusion of multimodality imaging.<br>A. Gomez (London, GB)                              | 411 |
| 14:22 | Holography, any use for congenital heart disease.<br>E. Bruckheimer (Zichron-Yaakov, IL)         | 412 |
| 14:45 | 3D printing: workflow to incorporate into normal practice.<br>M.N. Velasco Forte (London, GB)    | 413 |
| 15:07 | 3D rotational angiography: advanced imaging for/by interventionalist.<br>G. Krings (Utrecht, NL) | 414 |

14:00 - 15:30

Teaching Course

STRAUSS

## Advanced echo techniques I: cardiac mechanics

Chairpersons: T. Edvardsen (Oslo, NO); N. Weissman (Washington, US)

*Core Curriculum: 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 | Tissue Doppler imaging and speckle tracking: general principles.<br>Z. Vered (Zerifin, IL) | 415 |
| 14:22 | Cardiac mechanics: rotation, torsion, twist, untwist.<br>B.A. Popescu (Bucharest, RO)      | 416 |
| 14:45 | 3D strain: general principles.<br>P.P. Sengupta (New York, US)                             | 417 |
| 15:07 | Evaluation of cardiac dyssynchrony.<br>M. Cikes (Zagreb, HR)                               | 418 |

14:00 - 15:30

Rapid Fire Abstract

AGORA

## Diastology in health and disease

Fast-paced and interactive oral presentation on research highlights, followed by discussions animated by two experts chairing the session!

**Chairpersons: A.M. Iliesiu (Bucharest, RO); M. Galderisi (Naples, IT)**

- |       |                                                                                                                                                                                                                                                                                                                                                                                                        |     |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 14:00 | <b>Panel of experts:</b><br>O.A. Smiseth (Oslo, NO); T. Kukulski (Zabrze, PL)                                                                                                                                                                                                                                                                                                                          | 419 |
| 14:00 | <b>Added value over current diastology indices of Doppler-derived pulmonary artery diastolic pressure to estimate pulmonary wedge pressure. A catheterization re-validation study.</b><br>P. Barbier, M.C. Scali, A. Simioniu, C. Cucco, M. Guglielmo, G. Savioli, F.L. Dini (Milan, Pisa and Pavia, IT)                                                                                               | 420 |
| 14:11 | <b>Intraventricular velocity difference and velocity gradient along the early diastolic filling streamline as new measurements to assess diastolic dysfunction by vector flow mapping</b><br>B. Berlot, J.L. Moya Mur, D. Rodriguez Munoz, E. Casas Rojo, J.J. Jimenez Nacher, A. Garcia Martin, R. Hinojar, A. Gonzalez Gomez, B. Jug, C. Fernandez Golfín, J.L. Zamorano (Madrid, ES; Ljubljana, SI) | 421 |
| 14:22 | <b>A new testing approach for mapping two-dimensional intraventricular pressure gradient - initial report -</b><br>H. Semba, T. Uejima, H. Nishikawa, L. Takahashi, H. Sawada, T. Yamashita (Tokyo, JP)                                                                                                                                                                                                | 422 |
| 14:33 | <b>Left ventricular diastolic abnormalities other than valvular disease in antiphospholipid syndrome: an echocardiographic study</b><br>M. Lembo, A. Tufano, A. Nardo, A. Buonauro, V. Fazio, V. Schiano-Lomoriello, C. Santoro, S. Cocozza, G. Di Minno, B. Trimarco, M. Galderisi (Naples, IT)                                                                                                       | 423 |
| 14:45 | <b>Quantification of diastolic dysfunction by the dominant impact of age on diastolic function</b><br><b>The biomathematical impact on risk factor assessment</b><br>H. Von Bibra, C. Leclercq, T. Schuster (Munich, DE)                                                                                                                                                                               | 424 |
| 14:56 | <b>Echocardiographic subanalysis: correlation of the E/E-ratio to NT-BNP</b><br>S. Stoebe, S. Zeynalova, S. Wirkner, A. Tarr, S. Tautenhahn, D. Jurisch, G. Farese, D. Pfeiffer, A. Hagendorff, M. Loeffler (Leipzig, DE)                                                                                                                                                                              | 425 |
| 15:07 | <b>CMR-derived metrics of interstitial myocardial fibrosis: which parameter is better associated to the pathophysiology correlates of heart failure with preserved ejection-fraction?</b><br>P. Monney, S. Hugelshofer, P.G. Masci, G. Vincenti, T. Rutz, J. Schwitter (Lausanne, CH)                                                                                                                  | 426 |
| 15:18 | <b>Comparison of the myocardial stiffness of the left ventricle between elite athletes and the general population. Study with the use of tissue Doppler imaging.</b><br>K. Yiangou, C.H. Azina, M. Kassianides, M. Ioannides, K. Englezopoulos, C.H. Tountas, A. Theodosios-Georgilas, D. Beldekos (Nicosia, CY; Piraeus, GR)                                                                          | 427 |

15:30 - 16:30

Abstract Session

AGORA

## Young Investigator Award session - Clinical Science - The Roelandt's Young Investigator Award

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

**Judge(s):** L. Badano (Padova, IT); G. Maurer (Vienna, AT); V. Delgado (Leiden, NL); M. Dweck (Edinburgh, GB)

Four finalists, will present their research in oral session, moderated by senior faculty members and judged by a panel of experts who will determine a First Prize winner. The winner of this session will attend the Japanese Society of Echocardiography Meeting 2017 (JSE).

- |       |                                                                                                                                                                                         |     |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 15:30 | <b>Patient-specific numerical mitral valve modelling in secondary mitral regurgitation: clinical validity of a promising technique</b>                                                  | 429 |
|       | P.B. Bertrand, N. Debusschere, T. Dezutter, P. Mortier, G. De Santis, M. Vrolix, B. Heyde, P. Claus, P.R. Verdonck, P.M. Vandervoort, M. De Beule (Genk, Ghent, Leuven and Hasselt, BE) |     |
| 15:45 | <b>Importance of the measurement of right ventricular function when exercising patients with asymptomatic severe primary mitral regurgitation</b>                                       | 430 |
|       | E. Vitel, A. Pimor, G. Bouzille, C. Leclercq, E. Donal (Rennes, FR)                                                                                                                     |     |
| 16:00 | <b>Echocardiographic deformation imaging and computer simulation for electromechanical substrate characterization in arrhythmogenic right ventricular cardiomyopathy</b>                | 431 |
|       | T.P. Mast, A.J. Teske, J. Walmsley, J.F. Van Der Heijden, R. Van Es, F. Prinzen, T. Delhaas, T. Van Veen, P. Loh, P. Doevendans, M.J. Cramer, J. Lumens (Utrecht and Maastricht, NL)    |     |
| 16:15 | <b>The right ventricle of olympic athletes: characteristics and implications for the clinical evaluation</b>                                                                            | 432 |
|       | F.D. ascenzi, A. Pisicchio, S. Caselli, F.M. Di Paolo, A. Spataro, A. Pelliccia (Siena and Rome, IT)                                                                                    |     |

15:40 - 16:25

How-to Session

MAHLER

## How to prepare for EACVI CMR certification exams

EACVI HIT (Heart Imagers of Tomorrow)



**Chairperson:** L. Baghdasaryan (Yerevan, AM)

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

- |       |                          |     |
|-------|--------------------------|-----|
| 15:40 | <b>Presenter:</b>        | 433 |
|       | M. Westwood (London, GB) |     |

16:30 - 18:00

Main Session

BEETHOVEN

## Update on imaging aortic stenosis

**Chairpersons:** F. Weidemann (Unna, DE); V. Rigolin (Chicago, US)

- |       |                                                                                                        |     |
|-------|--------------------------------------------------------------------------------------------------------|-----|
| 16:30 | <b>Left ventricular ejection fraction in aortic stenosis and beyond!</b>                               | 435 |
|       | J. Magne (Limoges, FR)                                                                                 |     |
| 16:52 | <b>Cardiovascular magnetic resonance in aortic stenosis. A disease of the valve and/or myocardium.</b> | 436 |
|       | J. Moon (London, GB)                                                                                   |     |
| 17:15 | <b>Calcified aortic stenosis how molecular imaging may impact my practise?</b>                         | 437 |
|       | M. Dweck (Edinburgh, GB)                                                                               |     |
| 17:37 | <b>Paradoxical low flow aortic stenosis still controversial!</b>                                       | 438 |
|       | P. Pibarot (Quebec, CA)                                                                                |     |

16:30 - 18:00

Clinical Imaging

BACH

## Challenges in pulmonary hypertension

*This session is supported in a form of an unrestricted educational grant from United Therapeutics.*

**Chairpersons:** G. Di Salvo (London, GB); R. Faludi (Pecs, HU)

- |       |                                                                                                       |     |
|-------|-------------------------------------------------------------------------------------------------------|-----|
| 16:30 | Can imaging differentiate pre and post capillary pulmonary hypertension?<br>M.D. Alto (Naples, IT)    | 439 |
| 16:52 | Stress-echocardiography in pulmonary hypertension: tool or toy?<br>R.N. Naeije (Brussels, BE)         | 440 |
| 17:15 | Controversy of estimating pulmonary arterial pressure by echocardiography.<br>D. Voilliot (Nancy, FR) | 441 |
| 17:37 | Imaging and pulmonary hypertension treatment.<br>P. Lindqvist (Umea, SE)                              | 442 |

16:30 - 18:00

Symposium

MAHLER

## That's right

*Joint session with the Canadian Society of Echocardiography (CSE)*



**Chairpersons:** M. Henein (Umea, SE); C.M. Chow (Toronto, CA)

- |       |                                                                                                                 |     |
|-------|-----------------------------------------------------------------------------------------------------------------|-----|
| 16:30 | Arrhythmogenic right ventricular dysplasia.<br>K.H. Haugaa (Oslo, NO)                                           | 443 |
| 16:52 | Right heart in athletes.<br>L. Rudski (Cote St Luc, CA)                                                         | 444 |
| 17:15 | Right ventricular in patients with right heart surgery.<br>T. Le Tourneau (Nantes, FR)                          | 445 |
| 17:37 | Right ventricular in candidates with left ventricular assist device implantation.<br>M.C. Parent (Montreal, CA) | 446 |

16:30 - 18:00

Debate Session

WAGNER

## Ischaemic heart disease: single or multimodality imaging

*Joint session with the European Society of Cardiac Radiology (ESCR)*

**Chairpersons:** A.N. Neskovic (Belgrade, RS); L.A. Pierard (Liege, BE)

- |       |                                                                                                                                         |     |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------|-----|
| 16:30 | In patients with known or suspected coronary artery disease, I only need the anatomy: computed tomography.<br>O. Gaemperli (Zurich, CH) | 447 |
| 16:52 | In patients with known or suspected coronary artery disease, I prefer functional imaging.<br>J.M. Knuuti (Turku, FI)                    | 448 |
| 17:15 | For assessment of myocardial viability I only need LGE-MRI.<br>M. Gutberlet (Leipzig, DE)                                               | 449 |
| 17:37 | For assessment of myocardial viability I only need stress echocardiography.<br>A.A. Pasquet (Brussels, BE)                              | 450 |

16:30 - 18:00

Symposium

BRAHMS

## What's new in industry?

**Chairpersons:** J. D'hooge (Leuven, BE); N. Cardim (Lisbon, PT)

Special session in which the industry will briefly present the highlights of their current developments and programme of research in the field of cardiovascular imaging.

Each presentation will be followed by a panel discussion. We encourage question from the audience.

|       |                                                                                                                              |     |
|-------|------------------------------------------------------------------------------------------------------------------------------|-----|
| 16:30 | Tomtec Imaging Systems GMBH: Clinical Workflow – How Automation Improves Efficiency.<br>C. Galuschky (Unterschleissheim, DE) | 451 |
| 16:43 | Panel discussion.                                                                                                            | 452 |
| 16:48 | Lantheus Medical Imaging, Inc: LMI Cardiovascular Imaging: Now & into the Future.<br>C. Orlandi (North Billerica, US)        | 453 |
| 17:01 | Panel discussion.                                                                                                            | 454 |
| 17:06 | Pie Medical Imaging BV: 4D flow: Adding an extra dimension.<br>M. M. Bissell (Oxford, GB)                                    | 455 |
| 17:19 | Panel discussion.                                                                                                            | 456 |
| 17:24 | Philips: Philips vision: expand the relevance of echo to improve cardiac health.<br>A. Goncalves (Boston, US)                | 457 |
| 17:37 | Panel discussion.                                                                                                            | 458 |
| 17:42 | GE Healthcare: Impact of Software Beamforming (cSound) on Future of Echocardiography<br>A. Lojewski (Milwaukee, US)          | 459 |
| 17:55 | Panel discussion.                                                                                                            | 460 |

16:30 - 18:00

Symposium

SCHUMANN

## Advanced imaging in advanced heart failure

EACVI HIT (Heart Imagers of Tomorrow)



**Chairpersons:** A. Salustri (Abu Dhabi, AE); A. Katbeh (Madrid, ES)

|       |                                                                                                 |     |
|-------|-------------------------------------------------------------------------------------------------|-----|
| 16:30 | Cardiac Magnetic Resonance. When could we use it?<br>M. Motwani (Los Angeles, US)               | 461 |
| 16:52 | Echocardiography in the heart transplanted patient.<br>M.H. Miglioranza (Porto Alegre, BR)      | 462 |
| 17:15 | Right ventricular evaluation: a cross road for the LVAD eligibility.<br>M. Cameli (Cortado, IT) | 463 |
| 17:37 | Transthoracic 3D-echo for anatomical valvular assessment.<br>J. Grapsa (London, GB)             | 464 |

16:30 - 18:00

Teaching Course

STRAUSS

## Advanced echo techniques II: miscellaneous

**Chairpersons:** O. Kamp (Amsterdam, NL); S. Mihaileanu (Paris, FR)

*Core Curriculum: 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 | Stress echocardiography in valve disease.<br>E. Schwammenthal (Tel Hashomer, IL) | 465 |
| 16:52 | Contrast echocardiography: current applications.<br>H.H. Becher (Edmonton, CA)   | 466 |
| 17:15 | 3D intra-cardiac echocardiography.<br>M.L. Narducci (Rome, IT)                   | 467 |
| 17:37 | Echo guiding percutaneous procedures.<br>F.F. Faletra (Lugano, CH)               | 468 |

16:30 - 18:00

Rapid Fire Abstract

AGORA

## Congenital heart disease

Fast-paced and interactive oral presentation on research highlights, followed by discussions animated by two experts chairing the session!

**Chairpersons: W. Budts (Leuven, BE); T. Bharucha (Southampton, GB)**

- |       |                                                                                                                                                                                                                |     |
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| 16:30 | <b>Panel of experts:</b>                                                                                                                                                                                       | 469 |
|       | H. Grotenhuis (Utrecht, NL); P. Barker (Durham, US)                                                                                                                                                            |     |
| 16:30 | <b>Impact of training on aortic and cardiac remodelling in a murine model of Marfan syndrome: an echocardiographic study.</b>                                                                                  | 470 |
|       | A. Mas-Stachurska, E. Guasch, M. Sitges, M. Batlle, T. Meirelles, N. Castillo, P. Rudenick, B. Bijmens, G. Egea (Barcelona, ES)                                                                                |     |
| 16:41 | <b>Pre-intervention morphologic and functional echocardiographic characteristics of 651 neonates with critical left ventricular outflow tract obstruction</b>                                                  | 471 |
|       | M.G. Sliker, J.M. Meza, B.W. Mccrindle, T. Karamlou, C.I. Tchervenkov, M.L. Jacobs, W.M. Decampli, P.T. Burch, L. Mertens (Toronto and Montreal, CA; San Francisco, Baltimore, Orlando and Salt Lake City, US) |     |
| 16:52 | <b>Ventricular geometry and function in adult patients with Fontan surgery</b>                                                                                                                                 | 472 |
|       | A. Rosner, T. Khalapyan, H. Dalen, D. Mc Elhinney, S. Chen, C. Haeffele, S. Fernandes, B. Bijmens, M. Friedberg, G.K. Lui (Tromso and Levanger, NO; Palo Alto, US; Barcelona, ES; Toronto, CA)                 |     |
| 17:03 | <b>Long term functional and myocardial assessment of patients with critical aortic valve stenosis</b>                                                                                                          | 473 |
|       | B. Bonello, M. Carr, X. Iriart, P. Ciliberti, G. Christov, I. Sullivan, G. Derrick, M. Kostolny, V. Tsang, C. Bull, A. Giardini, J. Marek (London, GB)                                                         |     |
| 17:15 | <b>Late gadolinium enhancement and exercise capacity in adults with Ebstein's anomaly</b>                                                                                                                      | 474 |
|       | A. Cieplucha, O. Trojarska, M. Pyda, A. Kociemba, M. Lanocha, M. Barczynski, L. Kramer, S. Grajek (Poznan, PL)                                                                                                 |     |
| 17:26 | <b>Exercise echocardiography value in the evaluation of operated aortic coarctation patients</b>                                                                                                               | 475 |
|       | L. Almeida Morais, A. Abreu, A. Agapito, L. De Sousa, J.A. Oliveira, A. Viveiros Monteiro, P. Modas Daniel, M. Antonio, N. Jalles Tavares, R. Cruz-Ferreira (Lisbon, PT)                                       |     |
| 17:37 | <b>Functional evolution of the right ventricle after pulmonary valve replacement due to significant regurgitation. Implications in the surgical moment decision.</b>                                           | 476 |
|       | H. Morillas Climent, A. Osa Saez, O. Cano Perez, D. Domingo Valero, B. Igual Munoz, L. Martinez-Dolz, F. Serrano Martinez, A. Montero Argudo, D. Plaza Lopez, J. Rueda Soriano (Valencia, ES)                  |     |
| 17:48 | <b>Independent predictors of arrhythmias in adult patients with surgically corrected tetralogy of fallot: role of two-dimensional and speckle-tracking echocardiography</b>                                    | 477 |
|       | M.A. Nogueira, L.M. Branco, A.T. Timoteo, M. Oliveira, A. Agapito, G. Portugal, L. Sousa, J.A. Oliveira, R. Cruz Ferreira (Lisbon, PT)                                                                         |     |

# EuroEcho Imaging 2016



## Thursday Posters



**FOLLOW US LIVE**  
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WEDNESDAY  
SESSIONS

WEDNESDAY  
POSTERS

THURSDAY  
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THURSDAY  
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FRIDAY  
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FRIDAY  
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SATURDAY  
POSTERS

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## HIT POSTER SESSIONS

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

12:45-13:45 - Lunchtime HIT Poster hosts.

Meet the presenters by their poster.

## ABSTRACT & CLINICAL CASE POSTER SESSIONS

### MORNING POSTER SESSION

All posters are on display from 08:30 to 12:30.

10:00-11:00 - Meet the presenters by their poster.

### AFTERNOON POSTER SESSION

All posters are on display from 14:00 to 18:00.

15:30-16:30 - Meet the presenters by their poster.

## HIGH SCORE POSTER

Look out for these abstracts acknowledged by the reviewing committee.

### Missed a presentation?

After the congress, abstracts will be available online and a selection of slide presentations will be available only to EACVI Members.

**More information on the ESC-EACVI Stand.**

## IMPORTANT INFORMATION FOR PRESENTERS

### MORNING SESSIONS:

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

All posters not affixed by 10:00 may be considered as no-show.

Posters must be removed from the area between 12:30-13:00.

### AFTERNOON SESSIONS:

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

All posters not affixed by 15:30 may be considered as no-show.

Posters must be removed from the area between 18:00-18:30.

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

08:30 - 18:00

Poster Session

POSTER AREA

## HIT Poster session 2

EACVI HIT (Heart Imagers of Tomorrow)



**Lunch time HIT Poster hosts - 12:45 - 13:45.**

**P478**

S. Price (London, GB); J. Narula (New York, US); A. Hagendorff (Leipzig, DE); C. West (London, GB); S. Stoebe (Leipzig, DE); S. Narula (New York, US)

**Strain concordance in a real-world setting: experience in our laboratory after equipment upgrade.** **P479**

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**3D echocardiography is a fast-learning and reliable method for the measurements of left atrial volumes** **P480**

A. Velcea, S. Mihaila, A.A. Andronic, S. Marcu, D. Vinereanu (Bucharest, RO)

**Echocardiographic parameters associated with long-term appropriate antiarrhythmic therapies in cardiac resynchronization therapy defibrillator patients** **P481**

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**Noninvasively measured global wasted myocardial work allows for quantitative assessment of typical left ventricular mechanical dyssynchrony pattern in patients with left bundle branch block** **P482**

E. Surkova, J. Aalen, E. Samset, J. Bidviene, P. Aruta, G. Romeo, F. Sambugaro, L.P. Badano, D. Muraru (Padua, IT; Oslo, NO; Kaunas, LT)

**The impact of adherence to physical exercise on the improvement of cardiovascular remodeling and metabolic status in healthy untrained postmenopausal women** **P483**

V. Bucciarelli, F. Bianco, A. Di Blasio, P. Izzicupo, B. Ghinassi, G. Napolitano, A. Di Baldassarre, S. Gallina (Chieti, IT)

**The impact of the latest chamber quantification recommendations on the prediction of left atrial appendage thrombus presence** **P484**

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

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D. Miskowicz, K. Kupczynska, B. Michalski, M. Simiera, P. Lipiec, P. Wejner-Mik, K. Wierzbowska-Drabik, M. Ojrzanowski, J.D. Kasprzak (Lodz, PL)

**Acute regional myocardial deformation changes in patients with severe aortic stenosis and preserved ejection fraction after isolated aortic valve replacement** **P486**

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**Left ventricular rotational deformation in asymptomatic patients with chronic aortic regurgitation and normal left ventricular ejection fraction** **P487**

R. Verseckaitė, V. Mizariene, A. Montvilaite, R. Unikaite, M. Bieseviciene, R. Jurkevicius (Kaunas, LT)

**The appropriate use of transthoracic echocardiography for the exclusion of infective endocarditis** **P488**

N. Jilcott, S. Wilson (Cambridge, GB)

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A. Borizanov, E. Kinova, T. Kundurzhiev, A. Goudev (Sofia, BG)

**Echocardiographic risk factors for 30 day mortality after the hybrid procedure for hypoplastic left heart syndrome** **P492**

S. Caroli, H.R. Bellsham-Revell, A.J. Bell, O.I. Miller, J.M. Simpson (London, GB)

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**Transesophageal echocardiography under conscious sedation for guiding cryoballoon pulmonary vein isolation in paroxysmal atrial fibrillation - the safety and feasibility study** **P494**

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**Transesophageal echocardiography under conscious sedation for guiding cryoballoon pulmonary vein isolation in paroxysmal atrial fibrillation - the safety and feasibility study** **P495**

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I. Peovska Mitevska, E. Srbinovska, E. Antova, M. Bosevski (Skopje, MK)

## HIT Poster session 2 (continued)

EACVI HIT (Heart Imagers of Tomorrow)



**Right heart function in early diastolic dysfunction: 2D speckle-tracking echocardiography-based assessment of right atrial and right ventricular function**

P498

A. Brecht, M. Bathe, S. Oertelt-Prigione, U. Seeland, V. Regitz-Zagrosek, G. Baumann, K. Stangl, V. Stangl, F. Knebel, H. Dreger (Berlin, DE)

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P499

R. Babukov, V.V. Bazilev, F.L. Bartosh (Penza, RU)

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P500

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08:30 - 12:30

Poster Session

POSTER AREA

## Clinical Case Poster session I

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| <b>A malignant cause of angina in hypertrophic cardiomyopathy</b>                                                                                                            | P503 |
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| S. Anwer (Nasr City, EG)                                                                                                                                                     |      |
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| J. Gorniz Magana (Madrid, ES)                                                                                                                                                |      |
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| <b>Functional-anatomic matching between longitudinal strain pattern and late gadolinium enhancement of cardiac amyloidosis at presentation.</b>                              | P510 |
| F. Lo Iudice (Napoli, IT)                                                                                                                                                    |      |
| <b>Heart failure due to masked systolic atrial contraction detected by pulmonary venous flow in a patient with ventricular pacing</b>                                        | P511 |
| A. Hayashida (Okayama, JO)                                                                                                                                                   |      |
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| <b>Mitral annular calcification decreases diastolic tissue Doppler velocity(E') in regions affected with calcifications</b>                                                                                                                        | <b>P598</b> |
| L. Chebrolu, R. Schutt, D. Maragiannis, M. Abudiab, A. Sunkara, P. Alvarez, S. Nagueh, W.A. Zoghbi (Houston, US)                                                                                                                                   |             |
| <b>2D longitudinal LV speckle tracking strain pattern in breast cancer survivors: sports activity vs exercise as prescription model.</b>                                                                                                           | <b>P599</b> |
| L. Stefani, G.P. Pedrizzetti, B.T. Tosi, S.P. Pedri, G.G. Galanti (Florence and Trieste, IT)                                                                                                                                                       |             |
| <b>Catheter related atrial fibrillation is associated with left atrial deformation in patients with paroxysmal supraventricular tachycardia: a study of two-dimensional speckle tracking echocardiography</b>                                      | <b>P600</b> |
| M. Akcakoyun, H. Eren, A. Avci, S. Demir, M. Evlice, A. Guner, M. Tabakci, C. Toprak, M. Inanir, R. Kargin (Istanbul, TR)                                                                                                                          |             |
| <b>Early radiotherapy-induced ecg changes and their comparison with echocardiography in breast cancer patients</b>                                                                                                                                 | <b>P601</b> |
| K.T. Keski-Pukkila, S. Tuohinen, T. Skytta, H. Huhtala, V. Virtanen, P.-L. Kellokumpu-Lehtinen, P. Raatikainen, K. Nikus (Tampere and Jyväskylä, FI)                                                                                               |             |
| <b>Renal function is a major determinant of decreased sub-epicardial longitudinal strain in hypertension</b>                                                                                                                                       | <b>P602</b> |
| W.-H. Li, Y. Liu, W.-C. Tsai (Tainan, TW)                                                                                                                                                                                                          |             |
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| W. Khalil (zagazig, EG)                                                                                                                                                                                                                            |             |
| <b>Myocardial dysfunction in ANCA vasculitis measured by two-dimensional speckle tracking echocardiography</b>                                                                                                                                     | <b>P604</b> |
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| <b>CRT, arterial stiffness and ventricular-arterial coupling in HFrEF</b>                                                                                                                                                                          | <b>P605</b> |
| E. Sciatti, E. Vizzardi, I. Bonadei, F. Platto, M. Metra (Brescia, IT)                                                                                                                                                                             |             |
| <b>Mitral annular morphology and function in cardiac amyloidosis as assessed by three-dimensional speckle tracking echocardiography</b>                                                                                                            | <b>P606</b> |
| A. Nemes, D. Foldeak, P. Domsik, A. Kalapos, Z. Borbenyi, R. Sepp, T. Forster (Szeged, HU)                                                                                                                                                         |             |
| <b>Computed Tomography and Nuclear Cardiology</b>                                                                                                                                                                                                  |             |
| <b>Coronary plaque characterization in Egyptian metabolic syndrome patients using 64-MDCT</b>                                                                                                                                                      | <b>P607</b> |
| E. Selim, S. El Tahan, M. Loutfi, E. El Sharkawy (Alexandria, EG)                                                                                                                                                                                  |             |

14:00 - 18:00

Poster Session

POSTER AREA

## Clinical Case Poster session 2

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| A.L. Tojino (Pasay, PH)                                                                                                                                          |             |
| <b>Left ventricular mass</b>                                                                                                                                     | <b>P609</b> |
| E. Elsharkawy (Alexandria, EG)                                                                                                                                   |             |
| <b>A rare case of mitral stenosis - Shones syndrome</b>                                                                                                          | <b>P610</b> |
| S. Aguiar Rosa (Lisbon, PT)                                                                                                                                      |             |
| <b>The added value of three-dimensional echocardiography in the late diagnosis of a pacemaker complication in a patient with severe congestive heart failure</b> | <b>P611</b> |
| A.E. Velcea (Bucharest, RO)                                                                                                                                      |             |
| <b>Percutaneous paravalvular leak closure - procedure pitfalls</b>                                                                                               | <b>P612</b> |
| L. Almeida Morais (Lisbon, PT)                                                                                                                                   |             |
| <b>A case of late left ventricular pseudoaneurysm after aortic valve replacement for infective endocarditis.</b>                                                 | <b>P613</b> |
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| T.L. Wang (Taoyuan, TW)                                                                                                                                          |             |
| <b>A misclassification of pulmonary stenosis severity during pregnancy</b>                                                                                       | <b>P615</b> |
| T. Kemaloglu Oz (Istanbul, TR)                                                                                                                                   |             |
| <b>A problematic case of left ventricular hypertrophy</b>                                                                                                        | <b>P616</b> |
| A. Mursa (Bucharest, RO)                                                                                                                                         |             |
| <b>High variability of dynamic obstruction in a patient with hypertrophic obstructive cardiomyopathy and tako-tsubo-cardiomyopathy</b>                           | <b>P617</b> |
| B. Pfeiffer (Schweinfurt, DE)                                                                                                                                    |             |
| <b>Arterio-venous pulmonary fistula in patient after cerebral stroke</b>                                                                                         | <b>P618</b> |
| A. Tomaszewski (Lublin, PL)                                                                                                                                      |             |
| <b>Rapid myocardial calcification in acute sepsis</b>                                                                                                            | <b>P619</b> |
| S. Cuddy (-, IE)                                                                                                                                                 |             |
| <b>Acute right heart failure after delivery in patient with new-diagnosed pulmonary arterial hypertension</b>                                                    | <b>P620</b> |
| A. Giubertoni (Novara, IT)                                                                                                                                       |             |
| <b>When the right ventricle plays hide-and-seek</b>                                                                                                              | <b>P621</b> |
| N. Rojo Prieto (Leon, ES)                                                                                                                                        |             |
| <b>Adult congenital heart disease: when what grows wrong goes wrong</b>                                                                                          | <b>P622</b> |
| C. Ruivo (Leiria, PT)                                                                                                                                            |             |
| <b>Prenatal diagnosis of mixed type total anomalous pulmonary venous connection in asplenia</b>                                                                  | <b>P623</b> |
| M. Saito (Kokubunji, JP)                                                                                                                                         |             |
| <b>Uncorrected single ventricle in an adult patient: do coexisting valvular abnormalities matter?</b>                                                            | <b>P624</b> |
| D.M. Dorobantu (Bucharest, RO)                                                                                                                                   |             |
| <b>Ventricular septal aneurysm associated with bicuspid aorta: a case report</b>                                                                                 | <b>P625</b> |
| H.S. Kemal (Larnaca, CY)                                                                                                                                         |             |

## Poster session 3

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T. Ota, K. Toyota, K. Nagamine, Y. Koide, T. Nomura, J. Kurata, Y. Murakami, Y. Kozuka, C. Ohshiro (Kamakura, Yokohama and Tokyo, JP)

Follow-up echocardiography in asymptomatic valve disease: assessing the potential economic impact of the European and American guidelines in a dedicated valve clinic, compared to standard care. P627

D.N.S. Senaratne, K. Thomas, C. Townsend, S. Wheeler, I. Jacobson, A. Elkington, K. Balkhausen, S. Bull (Reading, GB)

The tricuspid valve: identification of optimal view for assessing for prolapse P628

N.K. Preston, L. Ring (Bury St Edmunds, GB)

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Right atrial volume by two-dimensional echocardiography in healthy subjects P629

F. Ferrara, L. Gargani, L. Carannante, V. Russo, M.D.alto, A.M. Marra, A. Cittadini, A.D.andrea, O. Vriz, E. Bossone

(Salerno, Pisa, Napoli, Naples and San Daniele del Friuli, IT)

Disturbance of inter and intra atrial conduction assessed by tissue doppler imaging in patients with medically controlled hypertension and prehypertension. P630

D. Djikic, N. Mujovic, B. Dejanovic, V. Peric, M. Marinkovic, N. Jankovic, B. Orbovic, D. Simic (Belgrade and Pristina, RS)

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O. Villemain, F. Sitefane, M. Pernot, G. Malekzadeh-Milani, J. Baranger, D. Bonnet, Y. Boudjemline (Paris, FR)

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L. Takahashi, T. Uejima, H. Nishikawa, H. Semba, H. Sawada, T. Yamashita (Tokyo, JP)

Usefulness of wave intensity analysis in predicting the response to cardiac resynchronization therapy P633

K. Niki, M. Sugawara, H. Kayanuma, K. Inoue, M. Yagawa, I. Takamisawa, J. Umemura, T. Yoshikawa, H. Tomoike (Tokyo and Himeji, JP)

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Clinical comparison of three different echocardiographic methods for left ventricular ejection fraction and LV end diastolic volume measurement P635

N. Benyounes, C. Van Der Vynckt, O. Gout, A. Cohen (Paris, FR)

Assessment of right ventricular-arterial coupling parameters by 3D echocardiography in patients with pulmonary hypertension receiving specific vasodilator therapy P636

E. Popa, R. Enache, R. Jurcut, I.M. Coman, R. Badea, P. Platon, A. Calin, C.C. Beladan, M. Rosca, C. Ginhina, B.A. Popescu (Bucharest, RO)

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D.B. Diego Bellavia, S.D. Sonia Dell'oglio, A.I. Attilio Iacovoni, C.F. Calogero Falletta, G.R. Giuseppe Romano, S.S. Sergio Sciacca,

L.S. Lissa Sugeng, J.M. Joseph Maalouf, M.P. Michele Pilato, M.S. Michele Senni, C.S. Cesare Scardulla, F.C. Francesco Clemenza

(Palermo and Bergamo, IT; New Haven and Rochester, US)

Kinematic analysis of diastolic function using the novel freely available software Echo E-waves - feasibility and reproducibility P638

M. Sundqvist, K. Salman, P. Tornvall, M. Ugander (Stockholm, SE)

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C. Wei-Ting, Z.C. Chen, J.J. Wang, S. Fisch, R.L. Liao (Tainan, TW; Boston, US)

The clinical significance of limited apical ischaemia and the prognostic value of stress echocardiography A contemporary study from a high volume center. P640

A. Papachristidis, D. Roper, D. Casar Demarco, M. Papitsas, I. Tsironis, J. Byrne, K. Alfakih, M.J. Monaghan (London, GB)

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A. Djordjevic-Dikic, N. Boskovic, I. Rakocovic, V. Giga, M. Tesic, J. Stepanovic, I. Nedeljkovic, S. Aleksandric, J. Kostic, B. Beleslin (Belgrade, RS)

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C. Volpi, M. Altman, M.S. Annabi, L. Aouchakra, U. Cucchini, D. Muraru, L.P. Badano, L. Ernande, G. Derumeaux (Creteil, FR; Padua, IT)

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J. Nieto Tolosa, F.J. Cambronero Sanchez, E. Pinar Bermudez, J.R. Gimeno Blanes, G. De La Morena Valenzuela (Cieza and Murcia, ES)

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D. Gemma, R. Moreno Gomez, M. Moreno Yanguela, J.L. Lopez Sendon (Messina, IT; Madrid, ES)

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A. Testuz, V. Nguyen, T. Mathieu, C. Kerneis, C. Cimadevilla, N. Kubota, I. Codogno, S. Tubiana, C. Estrellat, A. Vahanian,

D. Messika-Zeitoun (Paris, FR)

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S. Mondillo (Siena and Rome, IT)

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W. Braksator (Warsaw, PL)

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M. Deljanin Ilic, D. Petrovic, S. Stojanovic, S. Ilic, G. Kocic (Niska Banja and Nis, RS)

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O. Vriz, M. Pirisi, J. Magne, V. Aboyans, R. Minisini, E. Bossone (San Daniele del Friuli, Novara and Salerno, IT; Limoges, FR)

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A.T. Timoteo, L. Moura Branco, S.A. Rosa, A. Galrinho, L. Sousa, J.A. Oliveira, A. Agapito, R.C. Ferreira (Lisbon, PT)

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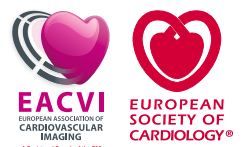


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# EuroEcho Imaging 2016



## Friday Sessions



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WEDNESDAY  
SESSIONS

WEDNESDAY  
POSTERS

THURSDAY  
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THURSDAY  
POSTERS

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SATURDAY  
SESSIONS

SATURDAY  
POSTERS

INDEX

## EACVI Imaging Campus - HIT Session

EACVI HIT (Heart Imagers of Tomorrow)

## IMAGING CAMPUS 2



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

09:00 - 10:30

### EACVI HIT workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners

Presenters:

H.M. Mahmoud (Aswan, EG); B.W. Michalski (Ksawerow, PL); S. Wright (London, GB)

750

11:00 - 12:30

### EACVI HIT workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners

Presenters:

J. Grapsa (London, GB); K.F. Fox (London, GB); A. Smith (Barnet, GB)

793

14:00 - 15:30

### EACVI HIT workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners

Presenters:

M. Cameli (Certaldo, IT); M. Garbi (London, GB); B. Martin (London, GB)

861

16:00 - 17:30

### EACVI HIT workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners

Presenters:

M.H. Miglioranza (Porto Alegre, BR); G. Tavazzi (Pavia, IT); S. Giannaris (London, GB)

867

## EACVI Imaging Campus

## IMAGING CAMPUS 3



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

09:00 - 10:30

### Imaging of cardiac anatomy

Presenter: 751  
F.F. Faletra (Lugano, CH)

11:00 - 12:30

### Imaging of cardiac anatomy

Presenter: 1221  
F.F. Faletra (Lugano, CH)

14:00 - 15:30

### Imaging of cardiac anatomy

Presenter: 862  
F.F. Faletra (Lugano, CH)

16:00 - 17:30

### Imaging of cardiac anatomy

Presenter: 868  
F.F. Faletra (Lugano, CH)

08:30 - 10:00

Main Session

BEETHOVEN

## Imaging in aortic regurgitation

Chairpersons: L.D. Gillam (Morristown, US); J. Bergler-Klein (Vienna, AT)

|       |                                                                                                |     |
|-------|------------------------------------------------------------------------------------------------|-----|
| 08:30 | MMI Workflow for the quantification of AR.<br>D. Montaigne (Lille, FR)                         | 712 |
| 08:52 | Aortic regurgitation in adult congenital heart disease.<br>S. Kutty (Omaha, US)                | 713 |
| 09:15 | Imaging for the management of paravalvular aortic regurgitation.<br>A. Sagie (Petah Tikva, IL) | 714 |
| 09:37 | MMI of the left ventricle in aortic regurgitation.<br>E. Galli (Avignon, FR)                   | 715 |

08:30 - 10:00

Clinical Imaging

BACH

## Clinical imaging in heart failure

Chairpersons: B.A. Popescu (Bucharest, RO); A.N. Kitsiou (Athens, GR)

|       |                                                                                   |     |
|-------|-----------------------------------------------------------------------------------|-----|
| 08:30 | HFpEF and HFrEF, 2 opposite entities or a continuum?<br>A.G. Fraser (Cardiff, GB) | 716 |
| 08:52 | Myocardial fibrosis.<br>K. Hyung-Kwan (Seoul, KR)                                 | 717 |
| 09:15 | Importance of geometry in heart failure.<br>J. Schulz-Menger (Berlin, DE)         | 718 |
| 09:37 | Imaging and new treatments for heart failure.<br>T.G. Von Lueder (Oslo, NO)       | 719 |

08:30 - 10:00

Special Session

MAHLER

## Don't we need an additional plane?

Joint session with the Polish Cardiac Society

Mobile App Interactive Session



Chairpersons: P. Nihoyannopoulos (London, GB); P. Lipiec (Lodz, PL)

|       |                                                                       |     |
|-------|-----------------------------------------------------------------------|-----|
| 08:30 | Why we need 3D in assessing ventricles.<br>N. Watanabe (Miyazaki, JP) | 721 |
| 08:52 | 3D in mitral valve.<br>M. Pepi (Milan, IT)                            | 722 |
| 09:15 | 3D in aortic valve.<br>A. Gackowski (Krakow, PL)                      | 723 |
| 09:37 | 3D in right-sided heart valves.<br>J.D. Kasprzak (Lodz, PL)           | 724 |

08:30 - 10:00

Symposium

WAGNER

## The best of Heart Imagers of Tomorrow (HIT)

EACVI HIT (Heart Imagers of Tomorrow)



Chairpersons: S. Price (London, GB); A. Klein (Cleveland, US)

|       |                                                             |     |
|-------|-------------------------------------------------------------|-----|
| 08:30 | 3D echocardiography and strain.<br>S. Stoebe (Leipzig, DE)  | 725 |
| 08:52 | Cardiac magnetic resonance.<br>T. Podlesnikar (Maribor, SI) | 726 |
| 09:15 | Stress imaging.<br>D. Morrone (Pisa, IT)                    | 727 |
| 09:37 | Imaging in critical care.<br>H. Soliman (Abu Dhabi, AE)     | 728 |

08:30 - 10:00

Symposium

BRAHMS

## Time to revalidate patients after valve intervention

Joint session with the European Association of Preventive Cardiology (EAPC)



Chairpersons: E. Plonska-Gosciniak (Szczecin, PL); To be announced

|       |                                                                                                               |     |
|-------|---------------------------------------------------------------------------------------------------------------|-----|
| 08:30 | Imaging before and after cardiac rehabilitation in which mitralclip patients?<br>F. Schnell (Rennes, FR)      | 729 |
| 08:52 | Imaging before and after cardiac rehabilitation in which TAVI patients?<br>J.P. Schmid (Bern, CH)             | 730 |
| 09:15 | Effect of cardiac rehabilitation on systolic function after valve surgery?<br>Q. Ciampi (Benevento, IT)       | 731 |
| 09:37 | State of the art in imaging for cardiac rehabilitation after valve intervention.<br>P. Faggiano (Brescia, IT) | 732 |

08:30 - 10:00

Symposium

SCHUMANN

## Stress imaging in congenital heart disease

Joint session with the European Association of Cardiovascular Imaging (EACVI) and the American Society of Echocardiography (ASE)



Chairpersons: M. Cohen (Philadelphia, US); W. Budts (Leuven, BE)

|       |                                                                                                                  |     |
|-------|------------------------------------------------------------------------------------------------------------------|-----|
| 08:30 | How to stress the congenitally malformed heart? An overview of different modalities.<br>L. Mertens (Toronto, CA) | 733 |
| 08:52 | Stressing the left ventricle.<br>W. Border (Atlanta, US)                                                         | 734 |
| 09:15 | Stressing the right ventricle.<br>W.A. Helbing (Rotterdam, NL)                                                   | 735 |
| 09:37 | Stressing the single ventricle.<br>W.A. Helbing (Rotterdam, NL)                                                  | 736 |

08:30 - 10:00

Teaching Course

STRAUSS

## Advanced echo technique I: 3D echo

Chairpersons: H.J. Nesser (Linz, AT); T. Kolas (Ann Arbor, US)

*Core Curriculum: 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 | Assessment of left ventricular shape and function.<br>O. Kamp (Amsterdam, NL)   | 737 |
| 08:52 | Assessment of right ventricular shape and function.<br>T. Kukulski (Zabrze, PL) | 738 |
| 09:15 | The left atrium in 3D.<br>A. Franke (Hannover, DE)                              | 739 |
| 09:37 | Valve morphology: normal and pathological.<br>M. Garbi (London, GB)             | 740 |

08:30 - 10:00

Rapid Fire Abstract

AGORA

## Multimodality imaging valvular heart disease

Fast-paced and interactive oral presentation on research highlights, followed by discussions animated by two experts chairing the session!

**Chairpersons:** F. Flachskampf (Uppsala, SE); D. Mohty (Limoges, FR)

- |       |                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 08:30 | <b>Panel of experts:</b><br>B.L.M. Gerber (Woluwe-St. Lambert, BE); S. Kapetanakis (London, GB)                                                                                                                                                                                                                                                                                                                                   | 741 |
| 08:30 | <b>Quantification of aortic regurgitation by pulsed Doppler examination of the left subclavian artery velocity contour: a validation study with cardiac magnetic resonance imaging</b><br>R.A. Spampinato, C. Jahnke, I. Paetsch, S. Hilbert, V. Schloma, Y. Dmitrieva, E. Strottdrees, G. Hindricks, F.W. Mohr (Leipzig, DE)                                                                                                     | 742 |
| 08:41 | <b>Diastolic retrograde flow in the descending aorta by cardiovascular magnetic resonance imaging for the quantification of aortic regurgitation</b><br>A. Kammerlander, M. Wiesinger, F. Duca, S. Aschauer, C. Zotter-Tufaro, M.L. Schwaiger, B.A. Marzluf, P.E. Bartko, D. Bonderman, J. Mascherbauer (Vienna, AT)                                                                                                              | 743 |
| 08:52 | <b>Native T1 relaxation time can accurately identify limited left ventricular contractile reserve in patients with aortic stenosis</b><br>T. Ondrus, D.C. Mirica, M. Kotrc, R. Kockova, G. Van Camp, Y. Mo, A. Praveckova, M. Penicka (Aalst, BE; Prague, CZ)                                                                                                                                                                     | 744 |
| 09:03 | <b>The validation and assessment of myocardial fibrosis by using cardiac magnetic resonance and speckle-tracking echocardiography in severe aortic stenosis</b><br>S.W. Cho, S.J. Park, S.M. Kim, J.W. Hwang, S.A. Chang, D.S. Jeong, S.C. Lee, S.W. Park, Y.H. Choe, P.W. Park (Seoul, KR)                                                                                                                                       | 745 |
| 09:15 | <b>Clinical validation of a semi-automatic quantification score of aortic valve calcification with ultrasound</b><br>K. Gillis, G. Bala, B. Roosens, S. Hernot, I. Remory, S. Droogmans, B. Cosyns (Brussels, BE)                                                                                                                                                                                                                 | 746 |
| 09:26 | <b>A comparison among conventional 3D-transesophageal echocardiography manual analysis, 3D automatic software analysis and computed tomography for the aortic annulus sizing in TAVI patients</b><br>L. Italia, G. Geremia, S. Stella, C. Marini, I. Rosa, F. Ancona, A. Latib, M. Montorfano, A. Colombo, A. Margonato, E. Agricola (Milan, IT)                                                                                  | 747 |
| 09:37 | <b>New insights from a multimodality imaging evaluation of LV remodeling in patients with chronic Ischaemic mitral regurgitation: a combined magnetic resonance and speckle tracking analysis</b><br>C. Zito, A. Bracco, E. Baldi, G. Di Bella, M. Cusma Piccione, D. Di Nunzio, R. Donato, R. Manganaro, A. Terrizzi, F. Pizzino, M.L. Carerj, L. Rivetti, R. Bitto, M. Sergi, S. Carerj (Messina and University of Messina, IT) | 748 |
| 09:48 | <b>Multimodality imaging monitoring during percutaneous tricuspid valve repair procedures</b><br>F. Ancona, E. Agricola, S. Stella, I. Rosa, C. Marini, M. Spartera, P. Denti, A. Margonato, R. Hahn, O. Alfieri, A. Latib, A. Colombo (Milan, IT; New York, US)                                                                                                                                                                  | 749 |

10:00 - 11:00

Special Session

AGORA

## Innovation I

*Our industry partners will present their latest innovative products, features and scientific achievements.*

**Chairpersons:** R. Senior (London, GB); B. Cosyns (Brussels, BE)

- |       |                                                                                                                                      |     |
|-------|--------------------------------------------------------------------------------------------------------------------------------------|-----|
| 10:00 | <b>TOMTEC Imaging Systems GmbH: How deep learning can help the physician of tomorrow.</b><br>G.P. Malischnig (Unterschleissheim, DE) | 752 |
| 10:20 | <b>Lantheus Medical Imaging, Inc: LUMINITY: A Contrast Agent with a Difference.</b><br>L. Allen (To be confirmed, US)                | 753 |
| 10:40 | <b>Philips vision: expand the relevance of echo to improve cardiac health</b><br>J. Bielczynski (Boeblingen, DE)                     | 754 |

10:10 - 10:55

How-to Session

MAHLER

## How to write a scientific paper EACVI HIT (Heart Imagers of Tomorrow)



**Chairperson:** A. Efimova (Minsk, BY)

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

- |       |                                                |     |
|-------|------------------------------------------------|-----|
| 10:10 | <b>Presenter:</b><br>A.G. Fraser (Cardiff, GB) | 755 |
|-------|------------------------------------------------|-----|

11:00 - 12:30

Main Session

BEETHOVEN

## Should I stay or should I go: imaging for cardiac resynchronisation therapy candidates

Chairpersons: C. Hassager (Copenhagen, DK); J. Gorcsan (Pittsburgh, US)

|       |                                                                                                                                              |     |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 11:00 | Role of echocardiography in Cardiac Resynchronisation Therapy: from guidelines to real word.<br>W. Mullens (Genk, BE)                        | 756 |
| 11:22 | Optimizing benefits from Cardiac Resynchronisation Therapy: lead positioning in the era of multimodality imaging.<br>V. Delgado (Leiden, NL) | 757 |
| 11:45 | Novel tools to evaluate left ventricular dyssynchrony.<br>O.A. Smiseth (Oslo, NO)                                                            | 758 |
| 12:07 | What future for myocardial imaging in Cardiac Resynchronisation Therapy.<br>E. Donal (Rennes, FR)                                            | 759 |

11:00 - 12:30

Clinical Imaging

BACH

## Imaging in ischaemic heart disease

Chairpersons: A. Moreo (Milan, IT); K. Nieman (Stanford, US)

|       |                                                                                                          |     |
|-------|----------------------------------------------------------------------------------------------------------|-----|
| 11:00 | Imaging myocardial bridging: how to handle?<br>J.M. Knuuti (Turku, FI)                                   | 760 |
| 11:22 | Imaging the vulnerable plaque: the Holy Grail?<br>D. Vancraeynest (Brussels, BE)                         | 761 |
| 11:45 | Place of imaging in functional testing for in Ischaemic heart disease 2016.<br>O. Gaemperli (Zurich, CH) | 762 |
| 12:07 | Imaging inflammation and cardiac remodelling.<br>M. Lombardi (San Donato Milanese, IT)                   | 763 |

11:00 - 12:30

Special Session

MAHLER

## Live session - Vertigo

Live session from the Heart Center Leipzig

Joint session with the European Heart Rhythm Association (EHRA)



Chairpersons: G. Hindricks (Leipzig, DE); G. Habib (Marseille, FR)

|       |                                                                               |     |
|-------|-------------------------------------------------------------------------------|-----|
| 11:00 | Imaging a patient with tachycardia.<br>C. Piorkowski (Dresden, DE)            | 764 |
| 11:22 | Imaging a patient with syncope.<br>J. Kautzner (Prague, CZ)                   | 765 |
| 11:45 | Imaging a patient with bradycardia.<br>W. Jaber (Cleveland, US)               | 766 |
| 12:07 | Imaging a patient with bundle branch block.<br>O.A.B. Breithardt (Kassel, DE) | 767 |

11:00 - 12:30

Symposium

WAGNER

## 3D inside the cath lab

Joint session with the European Association of Cardiovascular Imaging (EACVI) and the American Society of Echocardiography (ASE)



Chairpersons: C. Fernandez-Golfín (Madrid, ES); A. Klein (Cleveland, US)

|       |                                                               |     |
|-------|---------------------------------------------------------------|-----|
| 11:00 | A must in TAVI.<br>A. Bernard (Tours, FR)                     | 768 |
| 11:22 | A must in mitral interventions.<br>P. Debonnaire (Brugge, BE) | 769 |
| 11:45 | A must in LAA closure.<br>S. Mankad (Rochester, US)           | 770 |
| 12:07 | A must in leak closure.<br>V. Rigolin (Chicago, US)           | 771 |

11:00 - 12:30

Clinical Imaging

BRAHMS

## Challenges in cardiac oncology

Clinical Pathway

Chairpersons: P. Caso (Naples, IT); T. Edvardsen (Oslo, NO)

|       |                                                                                                                                                                       |     |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 11:00 | Imaging in cardiac oncology.<br>R.O. Jurcut (Bucharest, RO)                                                                                                           | 772 |
| 11:22 | Asymptomatic patient with inconsistencies between left ventricular ejection fraction and deformation imaging parameters post chemotherapy.<br>D. Mohty (Limoges, FR)  | 773 |
| 11:45 | Symptomatic patient with inconsistencies between left ventricular ejection fraction and deformation imaging parameters post chemotherapy.<br>J.C. Plana (Houston, US) | 774 |
| 12:07 | Valvular heart disease in an oncologic patient.<br>R.E. Dulgheru (Liege, BE)                                                                                          | 775 |

11:00 - 12:30

Debate Session

SCHUMANN

## Jekyll and Mr Hyde

Chairpersons: L.A. Pierard (Liege, BE); A.N. Neskovic (Belgrade, RS)

|       |                                                                                                                   |     |
|-------|-------------------------------------------------------------------------------------------------------------------|-----|
| 11:00 | Focus is enough. Pro.<br>S. Price (London, GB)                                                                    | 776 |
| 11:22 | Focus is not enough. Contra.<br>S. Price (London, GB)                                                             | 777 |
| 11:45 | Early intervention in asymptomatic primary MR - Go for it. Pro.<br>M.L. Enriquez-Sarano (Rochester, US)           | 778 |
| 12:07 | Early intervention in asymptomatic primary MR - I prefer to wait. Contra.<br>M.L. Enriquez-Sarano (Rochester, US) | 779 |

11:00 - 12:30

Teaching Course

STRAUSS

## Valvular Heart Disease I

Chairpersons: A. Varga (Szeged, HU); F. Antonini-Canterin (Pordenone, IT)

*Core Curriculum: 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 | Grading aortic stenosis: tips and tricks.<br>A. Calin (Bucharest, RO) | 780 |
| 11:22 | Mitral regurgitation assessment.<br>C. Zito (Messina, IT)             | 781 |
| 11:45 | Aortic regurgitation assessment.<br>A. Soufiani (Rabat, MA)           | 782 |
| 12:07 | Grading mitral stenosis.<br>T. Binder (Vienna, AT)                    | 783 |

11:00 - 12:30

Rapid Fire Abstract

AGORA

## Great cardiac arteries pathology

Fast-paced and interactive oral presentation on research highlights, followed by discussions animated by two experts chairing the session!

**Chairpersons: R. Sicari (Pisa, IT); A. La Gerche (Melbourne, AU)**

|       |                                                                                                                                                                                                                                                      |     |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 11:00 | <b>Panel of experts:</b>                                                                                                                                                                                                                             | 784 |
|       | G. Athanassopoulos (Pireas, GR); I. Stankovic (Belgrade, RS)                                                                                                                                                                                         |     |
| 11:00 | <b>Correlations between genetic mutations, biomolecular patterns and elastic properties of the aorta in patients with bicuspid aortic valve.</b>                                                                                                     | 785 |
|       | M.L. Carerj, C. Zito, A. Bitto, M.L. Cusma Piccione, L. Longobardo, M.L.D.angelo, L. Oreto, M.C. Todaro, F. Costa, M.C. Zucco, F. De Luca, M.P. Calabro, F. Squadrito, G. Di Bella, S. Carerj (Messina, IT)                                          |     |
| 11:11 | <b>The Agatston score of the descending aorta is an independant predictor of future coronary artery disease on top of coronary Agatston score in a low-risk population.</b>                                                                          | 786 |
|       | E.A.M.P. Dudink, F.E.C.M. Peeters, S. Altintas, L.I.B. Heckman, R.J. Haest, J.A. Kragten, J.E. Wildberger, B.L.J.H. Kietselaer, B. Weijs, H.J.G.M. Crijns (Maastricht, Geldrop and Heerlen, NL)                                                      |     |
| 11:22 | <b>Echocardiographic aortic size distribution and prognosis in outpatients without valvular heart disease.</b>                                                                                                                                       | 787 |
|       | A. Cherubini, S. Nistri, G. Barbati, G. Cioffi, G. Faganello, G. Russo, C. Mazzone, F. Negri, E. Grande, C. Pandullo, L. Tarantini, E. Casanova Borca, T. Pontoni, M. Fisicaro, A. Di Lenarda (Trieste, Altavilla Vicentina, Trento and Belluno, IT) |     |
| 11:33 | <b>Prognostic relevance of the pulmonary artery diameter in relation to the ascending aorta.</b>                                                                                                                                                     | 788 |
|       | A. Kammerlander, S. Aschauer, C. Zotter-Tufaro, F. Duca, M.L. Schwaiger, D. Dalos, M. Schneider, B.A. Marzluf, D. Bonderman, J. Mascherbauer (Vienna, AT)                                                                                            |     |
| 11:45 | <b>A dilative pathology of ascending aorta: interfaces between histological and echocardiographical features.</b>                                                                                                                                    | 789 |
|       | M. Bieseveciene, J.J. Vaskelyte, V. Lesauskaite, V. Mizariene, M. Kupryte, R. Jonkaitiene, R. Verseckaite (Kaunas, LT)                                                                                                                               |     |
| 11:56 | <b>Acute effects of air pollution on pulmonary hemodynamics: new evidences from both population and individual level studies.</b>                                                                                                                    | 790 |
|       | J.F. Argacha, A. Wauters, S. Droogmans, P. Van De Borne, J.L. Vachiery, B. Cosyns (Brussels, BE)                                                                                                                                                     |     |
| 12:07 | <b>The dynamic assessment of alveolar-capillary barrier during sub-clinical high-altitude pulmonary edema.</b>                                                                                                                                       | 791 |
|       | L. Pratali, G. Giardini, L. Bastiani, B. Catuzzo, R.M. Bruno, E. Picano (Pisa and Aosta, IT)                                                                                                                                                         |     |
| 12:18 | <b>The influence of the V-wave on the diastolic pulmonary pressure gradient in pulmonary hypertension due to left heart disease.</b>                                                                                                                 | 792 |
|       | A.I. Nagy, A.I. Venkateshvaran, B. Merkely, L.H. Lund, A. Manouras (Budapest, HU; Bangalore, IN; Stockholm, SE)                                                                                                                                      |     |

12:45 - 13:45

Satellite Symposium

WAGNER

## Improvement of cardiac efficiency with ivabradine based on imaging modalities Sponsored by SERVIER

**Chairpersons: P. Lancellotti (Liege, BE); M. Boehm (Homburg/Saar, DE)**

*The objective of this session is to discuss the importance of imaging modalities in cardiovascular diseases in order to assess on cardiac efficiency. We will explore how drugs act on different targets to provide complementary benefits at different time points during disease progression and the need for personalized therapy. In heart failure, the SHIFT echocardiographic substudy evaluated the effects of ivabradine and showed marked reductions in LV volumes and a significant improvement in LVEF under treatment. In the management of angina, the combination of drugs with different mechanisms of action are more effective and can act early to prevent chronic myocardial dysfunction caused by repeated episodes of ischemia.*

|       |                                                                                                               |     |
|-------|---------------------------------------------------------------------------------------------------------------|-----|
| 12:45 | <b>Introduction.</b><br>M. Boehm (Homburg/Saar, DE)                                                           | 794 |
| 12:50 | <b>How to integrate imaging modalities in clinical practice.</b><br>O. Gaemperli (Zurich, CH)                 | 795 |
| 13:05 | <b>Left ventricular remodeling with ivabradine: data from the SHIFT study.</b><br>M. Boehm (Homburg/Saar, DE) | 796 |
| 13:20 | <b>How imaging can help to manage the Ischaemic heart disease patient.</b><br>O. Franca (Curitiba, BR)        | 797 |
| 13:35 | <b>Conclusion.</b><br>P. Lancellotti (Liege, BE)                                                              | 798 |

12:45 - 13:45

Clinical Case

AGORA

## Congenital heart disease

**Chairpersons: K. Pushparajah (London, GB); A. Van Den Bosch (Rotterdam, NL)**

*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.*

|       |                                                                                                                                                                                                                                     |     |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 12:45 | <b>Panel of experts:</b><br>M. Cohen (Philadelphia, US); A. Frigiola (London, GB)                                                                                                                                                   | 799 |
| 12:45 | <b>Late diagnosis of double chambered right ventricle in an adult: diagnostic pitfalls and the role of multimodality imaging</b><br>L.A. Mandes (Constanta, RO)                                                                     | 800 |
| 12:55 | <b>Anomalous origin of left pulmonary artery from ascending aorta: an unusual cause of cardiac failure</b><br>Y.M. Sedky (Cairo, EG)                                                                                                | 801 |
| 13:05 | <b>An uncommon cause of right ventricular failure</b><br>S. Aguiar Rosa (Lisbon, PT)                                                                                                                                                | 802 |
| 13:15 | <b>Staged severe evolution and treatment dilemmas in a patient with Marfan syndrome</b><br>C. Militaru (Bucharest, RO)                                                                                                              | 803 |
| 13:25 | <b>A rare presentation of coarctation of the aorta: transient Ischaemic attack due to thrombus formation in the coarcted segment which was treated with oral anticoagulation</b><br>M. Kalcik (Corum, TR)                           | 804 |
| 13:35 | <b>Penetrating cardiac trauma resulting in a ventricular septal defect, a flail mitral valve leaflet and a right middle cerebral artery infarct, with percutaneous closure of the ventricular septal defect</b><br>S. Cuddy (-, IE) | 805 |

12:45 - 13:45

Moderated Posters

MODERATED POSTER AREA

## Practical applications of cardiac CT and/or radionuclide imaging

**Chairpersons:** A. Gimelli (Pisa, IT); A.J.H.A. Scholte (Leiden, NL)

Presenters will highlight key points of their research and answer questions from two moderators in front of an audience during official lunch breaks.

- |                                                                                                                                                                                                                                                                                                                                                                     |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Calcium but not fat is an additional marker for sub-clinical atherosclerosis in type 2 diabetes mellitus<br>A.A.M. Farrag, S. Sorour, M.A. Salem, S. Bakhoun (Cairo, EG)                                                                                                                                                                                            | P806 |
| Assessment of diastolic heart function with multi-detector computed tomography (MDCT)<br>A. Mustafa, S. Shahin, M. Abdelkader, T. Rashid (Cairo, EG)                                                                                                                                                                                                                | P807 |
| Automated measurement of left atrial appendage orifice dimensions and their variation in patients with atrial fibrillation using MDCT images.<br>J.Y. Wielandts, S. De Buck, C. Camaioni, A. Frontera, M. Haissaguerre, P. Jais, J.B. Thambo, X. Iriart, H. Cochet (Bordeaux, FR; Leuven, BE)                                                                       | P808 |
| Presence and extent of cardiac CT angiography defined coronary artery disease in patients presenting with syncope<br>S. Altintas, T. Dinh, N.G.H.M. Marcks, M. Kok, A.J.J. Aerts, B. Weijs, Y. Blaauw, J.E. Wildberger, M. Das, B.L.J.H. Kietselaer, H.J.G.M. Crijns (Maastricht, Heerlen and Groningen, NL)                                                        | P809 |
| Dobutamine stress myocardial perfusion imaging by SPECT adds incremental prognostic value across a high risk cohort<br>A. Ahmed, W. Qureshi, M. Al-Mallah (Riyadh, SA; Winston-Salem, US)                                                                                                                                                                           | P810 |
| Prevalence and consequences of incidental findings detected by computed tomography in patients undergoing pulmonary vein isolation or transcatheter aortic valve implantation<br>T. Hesselink, M.M.D. Molenaar, L.F.A. Scholten, M.F. Meijis, Y.J. Steinhagen, M.G. Stoel, P.H.F.M. Van Dessel, J.M. Van Opstal, K.G. Van Houwelingen, M.F. Scholten (Enschede, NL) | P811 |
| Low dose computed tomography angiography for evaluation of the thoracic aorta and coronary arteries using 160 mm detector coverage and iterative reconstruction algorithm<br>A. Annoni, A. Formenti, E. Mancini, S. Mushtaq, E. Conte, A. Baggiano, M. Guglielmo, V. Beltrama, D. Andreini, M. Pepi (Milan, IT)                                                     | P812 |
| Differential prognostic value of thoracic aorta calcium score on clinical outcomes in elderly individuals according to the presence of left ventricular hypertrophy<br>I.J. Cho, H.J. Chang, S.E. Lee, I. Cho, C.Y. Shim, G.R. Hong, N. Chung (Seoul, KR)                                                                                                           | P813 |

12:45 - 13:45

Moderated Posters

MODERATED POSTER AREA

## Imaging of the right heart - What is new?

**Chairpersons:** A. La Gerche (Melbourne, AU); O. Huttin (Nancy, FR)

Presenters will highlight key points of their research and answer questions from two moderators in front of an audience during official lunch breaks.

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Prognostic value of parameters of pulmonary artery stiffness in patients with pulmonary hypertension receiving specific vasodilator therapy<br>R. Enache, E. Popa, R. Jurcut, R. Badea, A. Calin, C.C. Beladan, M. Rosca, P. Platon, I.M. Coman, B.A. Popescu, C. Ginghina (Bucharest, RO)                                                                                                                                                                                                                     | P814 |
| Reconsidering of inferior vena cava parameters for estimating right atrial pressure: a comparative simultaneous ultrasound-catheterization study<br>N. Sawada, T. Kawata, M. Daimon, K. Kimura, T. Nakao, S. Chiang, K. Mahara, T. Okubo, Y. Yatomi, I. Komuro (Tokyo, JP; Taipei, TW)                                                                                                                                                                                                                         | P815 |
| Pulmonary hypertension is the main factor echocardiography to predicting mortality in medium and long term in a cohort of patients with heart failure<br>L. Molina Ferragut, D. Uhl, M. Gomez, M. Ble, A. Mas-Stachurska, M. Cladellas, C. Enjuanes, P. Moliner, J. Marti, J. Comin (Barcelona, ES)                                                                                                                                                                                                            | P816 |
| Normal values for 3D-right atrial volumes : results from the SKIPOGH-II population study<br>P. Monney, G. Ehret, V. Crisinel, S. Reverdin, L. Conti, F. Mach, X. Jeanrenaud, M. Bochud, H. Mueller (Lausanne and Geneva, CH)                                                                                                                                                                                                                                                                                   | P817 |
| Assessment of right ventricular function by free wall longitudinal strain in organic mitral regurgitation<br>A. Jobbe Duval, O. Thebault, M. Poilane, N. Piriou, P. Jaafar, K. Warin-Fresse, J.M. Serfaty, C. Cueff, T. Le Tourneau (Nantes, FR)                                                                                                                                                                                                                                                               | P818 |
| Importance of radial dysfunction to determine the impairment of right ventricular ejection fraction in patients with pulmonary hypertension<br>D. Peluso, A. Kovacs, E. Surkova, D. Muraru, M. Perazzolo Marra, S. Iliceto, L.P. Badano (Padua, IT; Budapest, HU)                                                                                                                                                                                                                                              | P819 |
| Influence of tricuspid regurgitation severity on non-invasive assessment of right heart hemodynamics: a simultaneous echocardiography-catheterization study<br>C.C. Beladan, L. Predescu, P. Platon, A.D. Mateescu, R. Enache, A. Calin, M. Rosca, L. Egger, O. Inta, R. Jurcut, C. Ginghina, B.A. Popescu (Bucharest, RO)                                                                                                                                                                                     | P820 |
| Right ventricular failure following ventricular assist device implant: systematic review and meta-analysis of clinical and echocardiographic predictors<br>D.B. Diego Bellavia, A.I. Attilio Iacovoni, S.D. Sonia Dell'oglio, G.R. Giuseppe Romano, M.S. Michele Senni, C.M. Chiara Mina', G.D. Gabriele Di Gesaro, M.P. Michele Pilato, F.A.M. Fletcher Miller, C.S. Cesare Scardulla, F.C. Francesco Clemenza, J.M. Joseph Maalouf, M.D. Michael Dandel (Palermo and Bergamo, IT; Rochester, US; Berlin, DE) | P821 |

14:00 - 15:30

Main Session

BEETHOVEN

## Place of imaging in aortic valve intervention

Joint session with the ESC Working group on Valvular Heart Disease.

This session is supported in the form of an unrestricted educational grant from Edwards Lifesciences

Chairpersons: P. Unger (Brussels, BE); M.-A. Clavel (Quebec, CA)

- |       |                                                                                                           |     |
|-------|-----------------------------------------------------------------------------------------------------------|-----|
| 14:00 | AV interventional: the place of imaging in the guidelines.<br>G. Pressman (Philadelphia, US)              | 823 |
| 14:22 | Role of the imager in the heart team?<br>V. Delgado (Leiden, NL)                                          | 824 |
| 14:45 | Not every prosthesis are equal: imaging still a role in aortic valve surgery.<br>B. Chambers (London, GB) | 825 |
| 15:07 | Imaging in complications after AV intervention.<br>L.A. Pierard (Liege, BE)                               | 826 |

14:00 - 15:30

Clinical Imaging

BACH

## Imaging in atrial fibrillation: from diagnosis to treatment

Chairpersons: O.A.B. Breithardt (Kassel, DE); L.E. Sade (Ankara, TR)

- |       |                                                                                                  |     |
|-------|--------------------------------------------------------------------------------------------------|-----|
| 14:00 | VHD in atrial fibrillation.<br>M. Rosca (Bucuresti, RO)                                          | 827 |
| 14:22 | Ventricular function in atrial fibrillation<br>T. Kukulski (Zabrze, PL)                          | 828 |
| 14:45 | Is CHAD2 VASC2 enough or do I need imaging.<br>A. Cohen (Paris, FR)                              | 829 |
| 15:07 | Cardiac imaging in the era of DOACS (Direct Oral Anticoagulant's).<br>D.P. Pellerin (London, GB) | 830 |

14:00 - 15:30

Symposium

MAHLER

## Singing in the strain

Joint session with the Bulgarian Working Group of Echocardiography



Chairpersons: N. Ozer (Ankara, TR); Y.T. Yotov (Sofia, BG)

- |       |                                                                                                       |     |
|-------|-------------------------------------------------------------------------------------------------------|-----|
| 14:00 | Basics in myocardial deformation.<br>P. Claus (Leuven, BE)                                            | 831 |
| 14:22 | 3D Strain: ready for prime time.<br>M. Galderisi (Naples, IT)                                         | 832 |
| 14:45 | Strain in cardiac genetic disease.<br>E. Kinova (Sofia, BG)                                           | 833 |
| 15:07 | Usefulness of strain when left ventricular ejection fraction is preserved.<br>K. Hristova (Sofia, BG) | 834 |

14:00 - 15:30

Special Session

WAGNER

## The research in imaging in the world- EuroEcho-Imaging Lecture

**Chairpersons: To be announced; S. Sengupta (Nagpur, IN)**

*The 2016 Young Investigator Awardees from USA (American Society of Echocardiography-ASE), Japan (Japanese Society of Echocardiography-JSE) and Asia (Asian Pacific Association of Echocardiography-AAE) will present their winning research.*

- |       |                                                                                                                                                                                                                        |     |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 14:00 | <b>Euroecho Lecture: "Cardiac imaging in the era of precision medicine".</b>                                                                                                                                           | 835 |
|       | P.P. Sengupta (New York, US)                                                                                                                                                                                           |     |
| 14:22 | <b>ASE: Young Investigator Awardee presentation: "Echocardiographic predictors of transthyretin cardiac amyloidosis among patients with severe aortic stenosis Undergoing transcatheter aortic valve replacement".</b> | 836 |
|       | A. Castano (New York, US)                                                                                                                                                                                              |     |
| 14:45 | <b>JSE: Young Investigator Awardee presentation: "Insufficient leaflet remodeling causes mitral regurgitation in patients with atrial fibrillation".</b>                                                               | 837 |
|       | N. Kagiya (Okayama, JP)                                                                                                                                                                                                |     |
| 15:07 | <b>AAE: Young Investigator Awardee presentation: "Device Sizing for Transcatheter Left Atrial Appendage Occlusion Using 3D Transesophageal Echocardiography and 3D Printing".</b>                                      | 838 |
|       | Y. Fan (Hong Kong, HK)                                                                                                                                                                                                 |     |

14:00 - 15:30

Symposium

BRAHMS

## The physiologist corner: what you need to know to interpret cardiac imaging

**Chairpersons: L. Herbots (Hasselt, BE); E. Schwammenthal (Tel Hashomer, IL)**

- |       |                                                                                                      |     |
|-------|------------------------------------------------------------------------------------------------------|-----|
| 14:00 | <b>Pressure - volume loops.</b>                                                                      | 839 |
|       | J. Lumens (Maastricht, NL)                                                                           |     |
| 14:22 | <b>The dynamic nature of mitral regurgitation.</b>                                                   | 840 |
|       | J. Hung (Boston, US)                                                                                 |     |
| 14:45 | <b>Flow propagation.</b>                                                                             | 841 |
|       | P.M. Vandervoort (Genk, BE)                                                                          |     |
| 15:07 | <b>Right ventricular/Left ventricular interaction: how does it affect function and measurements?</b> | 842 |
|       | B. Bijnens (Barcelona, ES)                                                                           |     |

14:00 - 15:30

Symposium

SCHUMANN

## Aortic coarctation: multimodality assessment and follow-up

**Chairpersons: X. Iriart (Pessac, FR); A. Dragulescu (Toronto, CA)**

- |       |                                                                                |     |
|-------|--------------------------------------------------------------------------------|-----|
| 14:00 | <b>Imaging before and after coarctation intervention and repair.</b>           | 843 |
|       | J. Saundankar (London, GB)                                                     |     |
| 14:22 | <b>How to follow the adult patient after CoA repair in clinical practice .</b> | 844 |
|       | A. Frigiola (London, GB)                                                       |     |
| 14:45 | <b>Cardiac mechanics after CoA repair.</b>                                     | 845 |
|       | L. Mercer-Rosa (Philadelphia, US)                                              |     |
| 15:07 | <b>Stress imaging in coarctation.</b>                                          | 846 |
|       | B. Cifra (Toronto, CA)                                                         |     |

14:00 - 15:30

Teaching Course

STRAUSS

## Valvular Heart Disease 2

**Chairpersons: G.L. Nicolosi (Cordenons, IT); C. Ghingina (Bucharest, RO)**

*Core Curriculum: 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 | <b>Prosthesis valve dysfunction.</b>                                                               | 847 |
|       | W.A. Zoghbi (Houston, US)                                                                          |     |
| 14:22 | <b>Percutaneous prosthesis valve dysfunction: paravalvular leak and hemodynamic deterioration.</b> | 848 |
|       | A. Sagie (Petah Tikva, IL)                                                                         |     |
| 14:45 | <b>Assesment of endocarditis: what are the guidelines telling us?</b>                              | 849 |
|       | C. Erol (Ankara, TR)                                                                               |     |
| 15:07 | <b>Right-sided valve disease assessment.</b>                                                       | 850 |
|       | I. Stankovic (Belgrade, RS)                                                                        |     |

14:00 - 15:30

Clinical Cases

AGORA

## Top of the hub: best clinical cases EACVI HIT (Heart Imagers of Tomorrow)



**Chairpersons: J. Narula (New York, US); E. Surkova (Padua, 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.*

|       |                                                                                                                                                                           |     |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 14:00 | <b>Panel of experts:</b><br>M. Motwani (Los Angeles, US); S. Stoebe (Leipzig, DE)                                                                                         | 851 |
| 14:00 | <b>A rare cause of severe chest pain and sustained ventricular tachycardia during a football game</b><br>M. Arzanauskaite (London, GB)                                    | 852 |
| 14:10 | <b>Thrombosed iliac venous aneurysm as a extremely rare source of pulmonary thromboembolism</b><br>J. Bereda (Gdansk, PL)                                                 | 853 |
| 14:20 | <b>3D transesophageal echo: guide to anticoagulation therapy after surgical closure of the left atrial appendage</b><br>A. Cecchetto (Negrar, IT)                         | 854 |
| 14:30 | <b>A unusual case of giant coronary aneurysm: role of multimodality imaging in the diagnosis and follow-up</b><br>F. Casadei (Lavezzola, IT)                              | 855 |
| 15:00 | <b>Myocardial cleft in a patient with acute coronary syndrome assessed by multimodal imaging</b><br>S. Bartolome Mateos (Parla, ES)                                       | 858 |
| 15:10 | <b>A rare case of subacute left atrial dissection</b><br>A. Lavorgna (Teramo, IT)                                                                                         | 859 |
| 15:20 | <b>A case of pulmonary sarcoidosis with severe precapillary pulmonary hypertension and extrinsic compression of the pulmonary artery</b><br>M.P. Huitema (Nieuwegein, NL) | 860 |

15:40 - 16:25

How-to Session

MAHLER

## How to write an abstract EACVI HIT (Heart Imagers of Tomorrow)



**Chairperson: C. West (London, GB)**

*How-to sessions provide practical details and tools or tips and tricks on a specific topic. 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.*

|       |                                              |     |
|-------|----------------------------------------------|-----|
| 16:25 | <b>Presenter:</b><br>N. Tzemos (Glasgow, GB) | 866 |
|-------|----------------------------------------------|-----|

16:30 - 18:00

Main Session

BEETHOVEN

## The walking dead: role of imaging after Sudden Cardiac Death (SCD)

**Chairpersons: R. Sicari (Pisa, IT); K.H. Haugaa (Oslo, NO)**

|       |                                                                                                                                      |     |
|-------|--------------------------------------------------------------------------------------------------------------------------------------|-----|
| 16:30 | <b>Early role of imaging after sudden cardiac death in ischaemic disease, role of MMI.</b><br>G. Pontone (Milan, IT)                 | 869 |
| 16:52 | <b>Early role of imaging after sudden cardiac death in non ischaemic disease.</b><br>A.M.G. Almeida (Lisbon, PT)                     | 870 |
| 17:15 | <b>Role of imaging in the critically ill after sudden cardiac death.</b><br>S. Price (London, GB)                                    | 871 |
| 17:37 | <b>The role of imaging late after sudden cardiac death: can imaging help in secondary prevention.</b><br>D.G.R. Kerkhove (Jette, BE) | 872 |

16:30 - 18:00

Clinical Imaging

BACH

## Clinical imaging in hypertension

Chairpersons: D.P. Pellerin (London, GB); G. Karatasakis (Athens, GR)

- |       |                                                                                                             |     |
|-------|-------------------------------------------------------------------------------------------------------------|-----|
| 16:30 | <b>Recommendation on the use of echocardiography in adult hypertension.</b><br>P.N. Marino (Novara, IT)     | 873 |
| 16:52 | <b>The traditional echocardiography assessment of hypertensive heart.</b><br>S. Carerj (Messina, IT)        | 874 |
| 17:15 | <b>How to integrate longitudinal strain in the assessment of hypertension.</b><br>M. Galderisi (Naples, IT) | 875 |
| 17:37 | <b>Imaging the effect of anti hypertensive treatment on the heart.</b><br>L. Gargani (Pisa, IT)             | 876 |

16:30 - 18:00

Symposium

MAHLER

## Citizen Strain

Joint session with the Japanese Society of Echocardiography (JSE)



Chairpersons: P. Lancellotti (Liege, BE); S. Nakatani (Takarazuka, JP)

- |       |                                                         |     |
|-------|---------------------------------------------------------|-----|
| 16:30 | <b>Tips and tricks.</b><br>E. Donal (Rennes, FR)        | 877 |
| 16:52 | <b>Pericardial disease.</b><br>A. Klein (Cleveland, US) | 878 |
| 17:15 | <b>Cardiac oncology.</b><br>H. Yamada (Tokushima, JP)   | 879 |
| 17:37 | <b>Restrictive CM.</b><br>J. Koyama (Matsumoto, JP)     | 880 |

16:30 - 18:00

Symposium

WAGNER

## The fantastic 4: the 4 best papers of my journal in 2016

Chairpersons: A. Saraste (Turku, FI); S. Matskeshvili (Moscow, RU)

- |       |                                                                                            |     |
|-------|--------------------------------------------------------------------------------------------|-----|
| 16:30 | <b>Circulation cardiovascular imaging.</b><br>P.N. Marino (Novara, IT)                     | 881 |
| 16:52 | <b>Journal of the American College of Cardiology Imaging.</b><br>J. Narula (New York, US)  | 882 |
| 17:15 | <b>Journal of the American Society of Echocardiography.</b><br>A.S. Pearlman (Seattle, US) | 883 |
| 17:37 | <b>European Heart Journal-Cardiovascular Imaging.</b><br>G. Maurer (Vienna, AT)            | 884 |

16:30 - 18:00

Symposium

BRAHMS

## Tea for two in the operating room

Chairpersons: P. Perrone-Filardi (Naples, IT); J. Chambers (London, GB)

- |       |                                                                                                          |     |
|-------|----------------------------------------------------------------------------------------------------------|-----|
| 16:30 | <b>Mitral valve repair. The Imager expertise.</b><br>A.J. Berrebi (Issy Les Moulineaux, FR)              | 885 |
| 16:48 | <b>Mitral valve repair. The Surgeon expertise.</b><br>E. Lansac (Paris, FR)                              | 886 |
| 17:06 | <b>Aortic valve repair. The Imager expertise.</b><br>A.A. Pasquet (Brussels, BE)                         | 887 |
| 17:24 | <b>Aortic valve repair. The Surgeon expertise.</b><br>G. El Khoury (Brussels, BE)                        | 888 |
| 17:42 | <b>Panel discussion.</b><br>B. Chambers (London, GB); I.A.C. Van Der Bilt (Naarden, NL); To be announced | 889 |

16:30 - 18:00

Symposium

SCHUMANN

## Spot the problem - Imager vs Interventionalist

EACVI HIT (Heart Imagers of Tomorrow)



**Chairpersons:** J. Grapsa (London, GB); A. Florian (Muenster, DE)

- |       |                                                                                                                         |     |
|-------|-------------------------------------------------------------------------------------------------------------------------|-----|
| 16:30 | Tips and tricks for the imager during MitraClip procedure: repair with a click and a plug.<br>S.H. Little (Houston, US) | 890 |
| 16:52 | TAVI imaging: plan correctly and prevent the catastrophe.<br>R. Sarwar (Oxford, GB)                                     | 891 |
| 17:15 | The role of the tricuspid valve in TAVI and MitraClip.<br>R. Pavašini (Ferrara, IT)                                     | 892 |
| 17:37 | CT and CMR to guide interventions.<br>T. Lapinskas (Kaunas, LT)                                                         | 893 |

16:30 - 18:00

Teaching Course

STRAUSS

## Transposition of the the great arteries: a multimodality approach

**Chairpersons:** K. Pushparajah (London, GB); L. Lopez (Miami, US)

*Core curriculum: 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 | Pre surgical evaluation<br>M. Cohen (Philadelphia, US)                                                  | 894 |
| 16:52 | Cardiac mechanics after the atrial switch<br>X. Iriart (Pessac, FR)                                     | 895 |
| 17:15 | Imaging for complications after the arterial switch and atrial switch operation<br>L. Lopez (Miami, US) | 896 |
| 17:37 | Cardiac mechanics after the arterial switch operation<br>G. Di Salvo (London, GB)                       | 897 |

16:30 - 18:00

Clinical Cases

AGORA

## Ischaemic heart disease

**Chairpersons:** A.N. Kitsiou (Athens, GR); R. Senior (London, GB)

*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.*

- |       |                                                                                                                                                                         |     |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 16:30 | Panel of experts:<br>K.F. Fox (London, GB); M. Dweck (Edinburgh, GB)                                                                                                    | 898 |
| 16:30 | Asymptomatic very late presentation of ALCAPA<br>E. Cambronero Cortinas (Albacete, ES)                                                                                  | 899 |
| 16:40 | Usefulness of 3-dimensional contrast echocardiography in the diagnosis of a left ventricular pseudoaneurysm after acute myocardial infarction<br>C. Marini (Milan, IT)  | 900 |
| 16:50 | Peri-procedural jailing of septal perforator branch retrospectively identified using speckle tracking echocardiography<br>R. Sorrentino (Pozzuoli, IT)                  | 901 |
| 17:00 | Anomalous origin of the left coronary artery from the pulmonary artery (ALCAPA)<br>Y. Morsy (Alexandria, EG)                                                            | 902 |
| 17:10 | Coronary artery compression by aneurysmal pulmonary artery<br>R.G. Badea (Bucharest, RO)                                                                                | 903 |
| 17:20 | A rare complication of myocardial infarction: pseudoaneurysm leading to ischaemic VSD<br>T. Heseltine (Liverpool, GB)                                                   | 904 |
| 17:30 | Single coronary ostium from the right aortic sinus of valsalva<br>R. Laymouna (Alexandria, EG)                                                                          | 905 |
| 17:40 | Incremental value of regional longitudinal strain upon visual assessment for detection of ischemia during dobutamine stress echocardiography<br>C. Santoro (Naples, IT) | 906 |
| 17:50 | One serious complication after myocardial infarction, isn't that enough?<br>A. Wojtkowska (Lublin, PL)                                                                  | 907 |

18:00 - 19:00

Special Session

BEETHOVEN

Echo@Jeopardy

We are turning the popular Jeopardy game into a cardiovascular imaging challenge for our distinguished Faculty Members.

Chairpersons: P. Lancellotti (Liege, BE); B. Cosyns (Brussels, BE)

|       |                                                                                           |     |
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| 18:00 | Echo at Jeopardy - Presenters:<br>S. Matskeplishvili (Moscow, RU); N. Cardim (Lisbon, PT) | 909 |
| 18:00 | EACVI Team.                                                                               | 910 |
| 18:15 | Local host Team.                                                                          | 911 |
| 18:30 | The rest of the world Team.                                                               | 912 |



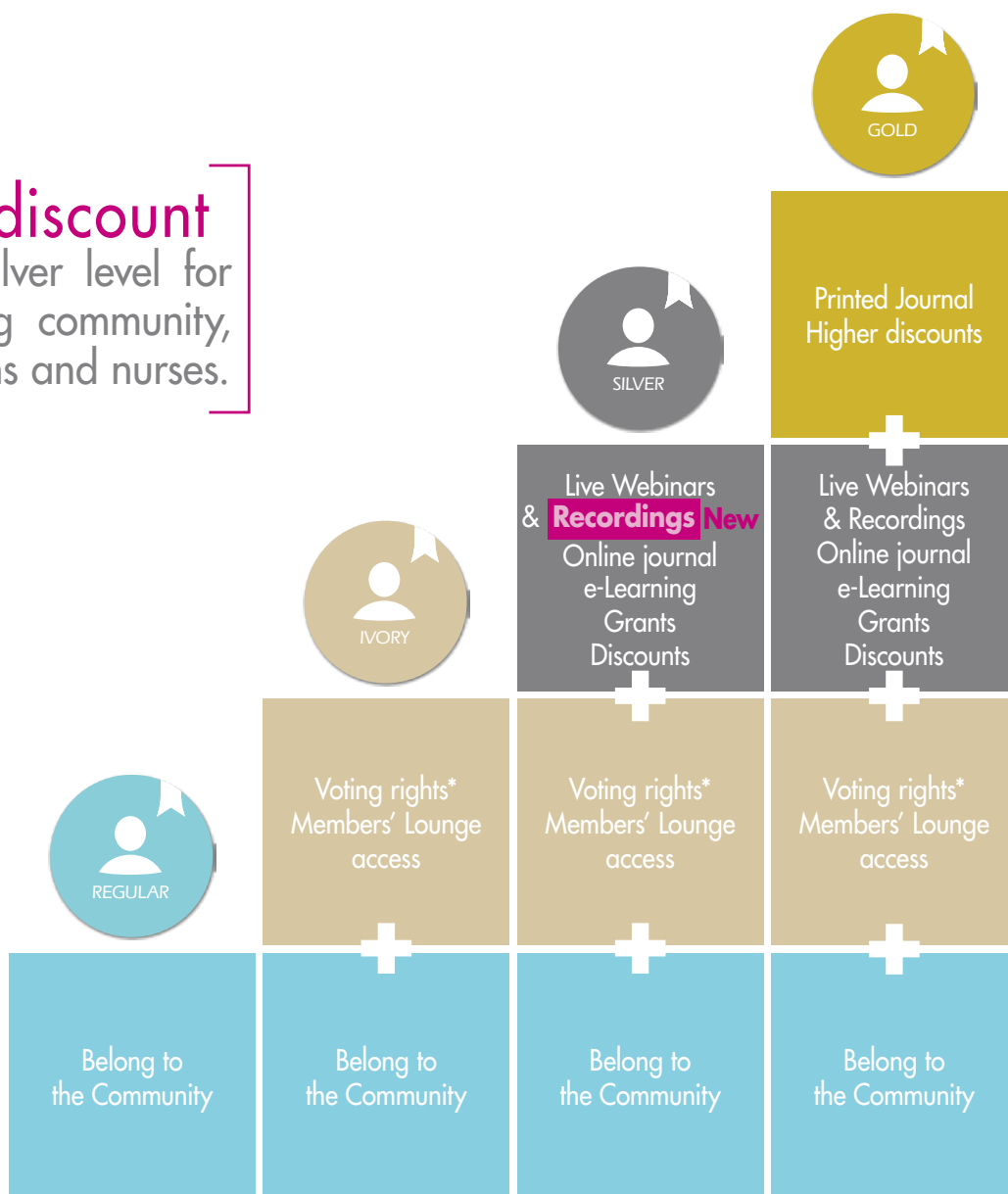
# EACVI

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# EuroEcho Imaging 2016



## Friday Posters



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WEDNESDAY  
SESSIONS

WEDNESDAY  
POSTERS

THURSDAY  
SESSIONS

THURSDAY  
POSTERS

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SATURDAY  
POSTERS

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## HIT POSTER SESSIONS

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

12:45-13:45 - Lunchtime HIT Poster hosts.

Meet the presenters by their poster.

## ABSTRACT & CLINICAL CASE POSTER SESSIONS

### MORNING POSTER SESSION

All posters are on display from 08:30 to 12:30.

10:00-11:00 - Meet the presenters by their poster.

### AFTERNOON POSTER SESSION

All posters are on display from 14:00 to 18:00.

15:30-16:30 - Meet the presenters by their poster.

## HIGH SCORE POSTER

Look out for these abstracts acknowledged by the reviewing committee.

### Missed a presentation?

After the congress, abstracts will be available online and a selection of slide presentations will be available only to EACVI Members.

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## IMPORTANT INFORMATION FOR PRESENTERS

### MORNING SESSIONS:

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

All posters not affixed by 10:00 may be considered as no-show.

Posters must be removed from the area between 12:30-13:00.

### AFTERNOON SESSIONS:

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

All posters not affixed by 15:30 may be considered as no-show.

Posters must be removed from the area between 18:00-18:30.

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

08:30 - 18:00

Poster Session

POSTER AREA

**HIT Poster session 3***EACVI HIT (Heart Imagers of Tomorrow)***Lunch time HIT Poster hosts - 12:45 - 13:45.****P914**

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## HIT Poster session 3 (continued)

EACVI HIT (Heart Imagers of Tomorrow)



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Poster Session

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| L. Longobardo, C. Zito, O. Trio, M. Cusma'-Piccione, G. Di Bella, B.K. Khandheria, S. Carerj (Messina, IT; Milwaukee, US)                                                                                                     |       |
| <b>Appropriateness criteria to echocardiograms for suspected infective endocarditis: experience of a tertiary referral center</b>                                                                                             | P990  |
| F. Casadei, B. De Chiara, F. Spano', D. Bokor, S. Quattrocchi, M. Varrenti, E. Viganò, I. Rinaldi, C. Giannattasio, A. Moreo (Milan, IT)                                                                                      |       |
| <b>Independent predictors of outcome in infective endocarditis</b>                                                                                                                                                            | P991  |
| R. Ilhao Moreira, M. Coutinho Cruz, L. Moura Branco, A. Galrinho, L. Coutinho Miranda, A. Viveiros Monteiro, S. Aguiar Rosa, I. Rodrigues, J. Fragata, R. Cruz Ferreira (Lisbon, PT)                                          |       |
| <b>The role of transesophageal cardiology in clinical course and prognosis of complicated infective endocarditis in critically ill patients: our 15 years experience</b>                                                      | P992  |
| F. Ahmad, S. Cox, S.T. Chan, E. Abdul Rahman, I. Zainal Abidin, M.A. Sadiq (Kuala Lumpur, Pusat Pentadbiran Kerajaan Persekutuan, Presint 7, 62250 Putrajaya, and Selangor, MY; Brisbane, QLD, 4066, AU; Muscat, OM)          |       |
| <b>Left bundle branch block atypical pattern as a prognostic determinant in patients taken to TAVI</b>                                                                                                                        | P993  |
| B. Parra Laca, F. Islas, A. De Agustin, L. Nombela, P. Marcos-Alberca, C. Macaya, L. Perez De Isla, C. Olmos (Madrid, ES)                                                                                                     |       |
| <b>Cardiomyopathies</b>                                                                                                                                                                                                       |       |
| <b>Efficacy of long-term ivabradine therapy in severe systolic chronic heart failure patients with and without type 2 diabetes mellitus</b>                                                                                   | P994  |
| L.R. Tumasyan, K.G. Adamyan (Yerevan, AM)                                                                                                                                                                                     |       |
| <b>Relations between left ventricular reverse remodeling and serum markers of extracellular matrix fibrosis in dilated cardiomyopathy</b>                                                                                     | P995  |
| S. Wisniowska-Smialek, P. Rubis, L. Khachatryan, A. Karabinowska, P. Faltyn, E. Dziewiecka, B. Biernacka-Fialkowska, M. Hlawaty, M. Kostkiewicz, P. Podolec (Krakow, PL)                                                      |       |
| <b>The healthy left ventricle accommodates an increasing vortex formation time for volume transfer in diastolic filling :Implications for heart failure</b>                                                                   | P996  |
| G.J. King, K. Coen, M. Sersenius, P.G. Nolan, J.G. Clarke (Limerick, Kilkenny and Galway, IE)                                                                                                                                 |       |
| <b>Evolutionary changes of pulmonary artery pressure after left ventricular assist device implant</b>                                                                                                                         | P997  |
| M.V. Di Ruocco, P.L. Temporelli, M. Pistono, A. Imparato, E. Eleuteri, P. Giannuzzi (Veruno, IT)                                                                                                                              |       |
| <b>Functional correlates and prognostic value of coronary flow velocity reserve by vasodilator stress echocardiography in hypertrophic cardiomyopathy</b>                                                                     | P998  |
| Q. Ciampi, L. Cortigiani, M. Tesic, B. Beleslin, F. Rigo, A. Djorkievic-Dikic, E. Picano (Benevento, Lucca, Mestre-Venice and Pisa, IT; Belgrade, RS)                                                                         |       |
| <b>Quantification of myocardial performance in patients with non-obstructive versus latent-obstructive hypertrophic cardiomyopathy</b>                                                                                        | P999  |
| J. Wang, L. Zuo, S.J. Ta, N. Kang, M.Y. Zhou, R.Q. Guo, L. Liu (Xian, CN)                                                                                                                                                     |       |
| <b>Lifelong arrhythmic risk stratification in arrhythmogenic right ventricular cardiomyopathy: distribution of events and impact of periodical reassessment</b>                                                               | P1000 |
| C. Cappelletto, D. Stolfo, A. De Luca, B. Pinamonti, G. Barbat, G. Gobbo, A. Pivetta, F. Brun, M. Merlo, G. Sinagra (Trieste, IT)                                                                                             |       |
| <b>Impact of fibrosis visualized by CMR in vectorcardiogram recordings of patients with suspected arrhythmogenic cardiomyopathy.</b>                                                                                          | P1001 |
| B. Igual Munoz, J.S. Sanz, P.M.A. Molina-Aguilar, F.C.R. Castells Ramon, J.G.B. Giner Blasco, S.G. Santiago Jimenez, A.M.G. Maceira-Gonzalez, A.M.R. Monserrat Reina, L.T.S. Tuset Sanchez, E.Z.G. Zorio-Grima (Valencia, ES) |       |

- Determinants of the beneficial effect of aldosterone antagonism on exercise capacity in heart failure with reduced ejection fraction** PI002  
W. Kosmala, W. Sacharczuk, T. Kotwica, R. Dankowski, M. Przewlocka-Kosmala, M. Kobusiak-Prokopowicz, A. Mysiak, A. Szyszka (Wroclaw and Poznan, PL)
- Myocardial strain values in patients with acute myocarditis and preserved ejection fraction. A magnetic resonance feature tracking study** PI003  
A.M.G. Almeida, M.N. Menezes, G. Lima Silva, T. Guimaraes, A.R. Francisco, R. Placido, C. David, F.J. Pinto (Lisbon, PT)
- Detection of subclinical left ventricular dysfunction by speckle tracking echocardiography in patients with myocarditis without prominent wall motion abnormalities** PI004  
P. Kostakou, N. Kouris, E. Trifou, V. Kostopoulos, P. Hatzigiannis, C.D. Olympios (Athens, GR)
- Aborted sudden cardiac death patients aged <50 years show only mild alterations on cardiac magnetic resonance imaging** PI005  
T. Zaremba, A.K. Broendberg, H.K. Jensen, W.Y. Kim (Aalborg and Aarhus, DK)
- Systemic diseases and other conditions**
- Relationships between subepicardial and subendocardial longitudinal strain with late gadolinium enhancement in uncomplicated hypertensive patients** PI006  
C. Contaldi, M. Imbriaco, G. Alci, A. Ponsiglione, C. Santoro, M. Puglia, L. Barbuto, A. Cuocolo, B. Trimarco, M. Galderisi (Naples, IT)
- Aortic root diameters and aortic regurgitation in hypertensive patients and normal subjects** PI007  
O. Vriz, N.B. Bertin, G. Brosolo, E. Bossone (San Daniele del Friuli and Salerno, IT)
- Ultrasonic assessment of backscatter signal intensity of the right ventricle in patients with arterial hypertension as a method of measuring alterations of myocardium** PI008  
S. Ivanov, V. Matveev, L. Kuznetsova, I. Dmitrieva (Moscow, RU)
- Speckle strain echocardiography for the evaluation of left ventricular dyssynchrony in patients with severe lung diseases and pulmonary hypertension.** PI009  
M. Szulik, J. Nowak, W. Skowron, J. Klys, M. Koziel, W. Streb, P. Rozentryt, S. Zeglen, Z. Kalarus, T. Kukulski (Zabrze, PL)
- Impaired left ventricular ejection fraction in a cohort of systemic sclerosis patients: clinical and echocardiographic characteristics.** PI010  
S. Llerena Butron, C.P. Denton, J.G. Coghlan, B.E. Schreiber (London, GB)
- Prognostic role of subclinical left ventricular systolic dysfunction evaluated using strain imaging by speckle-tracking echocardiography** PI011  
G. Cioffi, O. Viapiana, F. Ognibeni, A. Dalbeni, A. Giollo, D. Gatti, L. Idolazzi, A. Cherubini, C. Mazzone, G. Faganello, A. Di Lenarda, M. Rossini (Trento, Verona and Trieste, IT)
- Inferior vena cava diameter is a strong and practical marker of physical activity and fitness** PI012  
H.A.C.M. Bruin De- Bon, H.T. Jorstad, S.M. Boekholdt, N.M. Panhuyzen-Goedkoop, B.J. Bouma, R.J.G. Peters (Amsterdam, NL)
- When the heart works for two: morphologic and functional adaptation during pregnancy** PI013  
P. Meras Colunga, S. Prado Diaz, N. Montoro Lopez, O. Gonzalez Fernandez, V. Rial Baston, S.C. Valbuena Lopez, E. Refoyo Salicio, M. Moreno Yanguela, M. De La Calle, J.L. Bartha Rasero, R. Dalmau Gonzalez-Gallarza, J.L. Lopez Sendon, G. Guzman Martinez (Madrid, ES)
- Extensive use of lung ultrasound in pediatric cardiac surgery: preliminary experience** PI014  
M. Cantinotti, L. Ait-Ali, E.F. Franchi, M. Scalese, L. Gargani (Massa and Pisa, IT)
- Asymptomatic delayed right ventricular perforation by cardiac implantable electronic devices lead, echocardiographic features.** PI015  
B. Zaborska, E. Makowska, E. Pilichowska-Paszkiel, M. Sikora-Frac, A. Czepiel, M. Swiatkowski, P. Kulakowski (Warsaw, PL)
- Pericardial disease**
- Novel echocardiographic prognostic markers for cardiac tamponade in patients with large malignant pericardial effusions.** PI016  
A paradigm shift from flow to tissue imaging.
- Doppler echocardiographic parameters as a marker of cardiac tamponade.** PI017  
J.W. Son, H.J. Kim, B.J. Kim, K.W. Choi, J.H. Nam, J.H. Lee, C.H. Lee, W. Kim, J.S. Park, D.G. Shin, Y.J. Kim, J.H. Choi (Daegu and Busan, KR)
- Diseases of the aorta**
- Sigmoid septum as a marker of elongation of thoracic aorta caused by progression of atherosclerosis** PI018  
Y. Wada, A. Fujii, T. Ariyoshi, S. Okuda, A. Omuro, M. Hisaoka, T. Nao, T. Yamasaki, N. Tanaka, M. Yano (Ube, JP)
- Carotid artery atherosclerosis and stiffness: comparison of different metabolic measures** PI019  
C. Di Nora, S. Poli, O. Vriz, L. Sparacino, C. Zito, S. Carerj, D. Pavan, F. Antonini-Canterin (Trieste, San Daniele del Friuli, Pordenone and Messina, IT)
- Stress echo**
- Feasibility of triple imaging vasodilator stress echo in patients with suspected coronary artery disease** PI020  
Q. Ciampi, M. Paterni, B. Villari, E. Picano (Benevento and Pisa, IT)
- The use of combined echo and cardio-pulmonary stress for discriminating cardiac problems from de-conditioning in patients with dyspnea** PI022  
Y.T. Topilsky, Z.R. Rozenbaum, K.S. Khoury, G.K. Keren (Tel Aviv, IL)
- Long-term prognosis of a stress echocardiography in patients after successful primary percutaneous intervention and incomplete revascularization of non-culprit lesions** PI023  
M.T. Petrovic, V. Giga, J. Stepanovic, N. Boskovic, D. Trifunovic, S. Aleksandric, I. Nedeljkovic, M. Tesic, M. Dobric, I. Rakocovic, B. Beleslin, A. Djordjevic-Dikic (Belgrade, RS)
- Diastolic exercise stress echo can unmask diastolic dysfunction in type 2 diabetes, a five-year follow-up study** PI024  
C. Bjork Ingul, A.S. Timilsina, S.M. Hollekim-Strand (Trondheim, NO)
- Diabetes mellitus is the major limitation for diagnosis of coronary artery disease assessed by semisupine ergometer stress echocardiography** PI025  
H.R. Tsai, Y.W. Liu, W.C. Tsai (Tainan, TW)

**Transesophageal echocardiography**

- Longitudinal changes of atherosclerotic features in the aorta on transcatheter aortic valve implantation using transesophageal echocardiography** PI026  
M. Bando, K. Nishigami, Y. Horibata, K. Nakao, T. Sakamoto (Kumamoto, JP)
- Severe aortic stenosis: comparison between effective and anatomical aortic valvular area by two and three dimension transesophageal ecocardiography** PI027  
G. Perea, M. Lombardero, R. Henquin, M.C. Corneli (Buenos Aires, AR)
- Region growing method provides better left ventricular volume and cardaic output measuring** PI028  
H.-L. Cheng (Taipei, TW)
- 3 dimensional echocardiographic evaluation of mitral valve geometry in patients with secondary and primary mitral regurgitation** PI029  
R. Schueler, C. Oeztuerk, M. Weber, A. Welz, N. Werner, G. Nickenig, C. Hammerstingl (Bonn, DE)

**Tissue Doppler and speckle tracking**

- The impact of adjustable region of interest on ventricular strain measurements and arrhythmic risk assessment in patients with hypertrophic cardiomyopathy** PI030  
M. Rosca, L. Mandes, A. Calin, C.C. Beladan, R. Enache, A. Mateescu, C. Calin, R. Jurcut, C. Gingham, B.A. Popescu (Bucharest, RO)
- Left ventricular strain at presentation predicts long-term outcome in ALCAPA patients.** PI031  
G. Di Salvo, N. Muhanna, G. Siblini, Z. Bulbul, Z. Issa, A. Abu Hazeem, B. Fadel, V. Pergola, Z. Halees, M. Fayyadh (Milan, IT; Riyadh, SA; Beirut, LB)
- Global atrial-ventricular strain as a new index of subclinical left heart dysfunction in hypertensive and diabetic patients** PI032  
M. Cameli, G.E. Mandoli, F.M. Righini, C. Albizzi, E. Capitani, C. Pastore, F.D. ascenzi, M. Focardi, S. Mondillo (Siena, IT)
- Echocardiographic predictive model of new-onset postoperative atrial fibrillation after abdominal surgery** PI033  
L. Demirevska, D. Gotchev (Sofia, BG)
- Right ventricular outflow premature contractions induce left ventricular dyssynchrony** PI034  
O.A. Enescu, B.M.C. Suran, R.C. Rimbas, A.D. Margulescu, C. Siliste, D. Vinereanu (Bucharest, RO)
- Simultaneous biventricular impairment after Trastuzumab therapy** PI035  
K. Keramida, J. Bingcang, R. Wensel, P. Nihoyannopoulos (London, GB)
- New multi-layer approach of myocardial deformation by 2D speckle tracking imaging might improve characterization of heart failure** PI036  
R.C. Rimbas, S. Mihaila, S.I. Calin, A. Velcea, A.A. Andronic, D. Vinereanu (Bucharest, RO)
- Mechanical dyssynchrony and super-response to cardiac resynchronisation therapy in patients with congestive heart failure** PI037  
V.A. Kuznetsov, A.M. Soldatova, D.V. Krinochkin, N.N. Melnikov, T.N. Enina (Tyumen, RU)
- Prediction of major cardiovascular events in dialysis patients by means of 2D strain** PI038  
C. Aggeli, V. Kakiouzi, I. Felekos, D. Petras, P. Giannou, K. Zisimos, E. Venieri, D. Tousoulis (Athens, GR)
- Surprisingly frequent findings of subclinical dysfunctional left ventricle in COPD without pulmonary hypertension.** PI039  
J.M. Hilde, I. Skjorten, M.N. Nissen Melsom, S. Humerfelt, J. Hisdal, V. Hansteen, K. Steine (Oslo and Hakadal, NO)
- Role of 2D speckle tracking echocardiography in the assessment of left atrial function in hypertensive patients** PI040  
M. Hassan, T. Abd Alrahman, A. Mazen, E. Samy (Cairo, EG)
- Can speckle tracking echocardiography derived early systolic lengthening duration predict myocardial viability?** PI041  
P. Selwanos, M. Ali Soliman, M. Beshay Mena, M. Rayan (Aswan, Menofiya and Cairo, EG)
- Certain left ventricular strains are supranormal in elite athletes - a three-dimensional speckle-tracking echocardiographic study** PI042  
A. Nemes, A. Kalapos, P. Domsik, M. Oszlanczi, A. Orosz, L. Torok, L. Balogh, T. Forster, C. Lengyel (Szeged, HU)
- Are biventricular systolic functions impaired in patient with coronaray slow flow? A prospective study with three dimensional speckle tracking** PI043  
T. Kemaloglu Oz, M. Eren (Istanbul, TR)
- Validation of the accuracy and feasibility of new technologies for the assessment of cardiac function in cancer patients** PI044  
M.D.angelo, F.J. Irazusta Cordoba, S.O. Rosillo Rodriguez, E. Refoyo Salicio, R. Dalmau Gonzalez Gallarza, G. Guzman Martinez, F.J. Dominguez Melcon, P. Meras Colunga, M. Moreno Yanguela, T. Lopez Fernandez (Messina, IT; Madrid, ES)

**Computed Tomography and Nuclear Cardiology**

- Cardiac computed tomography besides coronary arteries - four years of experience of a high volume cardiovascular centre** PI045  
P. Modas Daniel, R. Ramos, A. Viveiros Monteiro, R. Santos, H. Marques, E. Fontes, M. Costa, M. Saraiva, L. Figueiredo, R.C. Ferreira (Lisbon, PT)

14:00 - 18:00

Poster Session

POSTER AREA

## Clinical Case Poster session 4

|                                                                                                                                         |       |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| <b>An unexpected finding</b>                                                                                                            | PI046 |
| R. Ilhao Moreira (Coimbra, PT)                                                                                                          |       |
| <b>Coronary artery ectasia in the setting of subacute Inferior STEMI</b>                                                                | PI047 |
| E. Cambroner Cortinas (Albacete, ES)                                                                                                    |       |
| <b>Diagnosis through the back door: the utility of the subscapular acoustic window</b>                                                  | PI048 |
| G. Giannakopoulos (Geneva, CH)                                                                                                          |       |
| <b>A challenging case of paravalvular leakage closure</b>                                                                               | PI049 |
| C.Y. Wong (Hong Kong, HK)                                                                                                               |       |
| <b>A life-threatening asymptomatic incidental finding</b>                                                                               | PI050 |
| M.J. Vieira (Figueira Da Foz, PT)                                                                                                       |       |
| <b>Acute heart failure due to intermittent aortic prosthesis regurgitation - case report</b>                                            | PI051 |
| G. Neves Pestana (Porto, PT)                                                                                                            |       |
| <b>Role of echocardiography in a patient with sequels after surgical treatment of infective endocarditis on a bicuspid aortic valve</b> | PI052 |
| D. Kalimanovska-Ostic (Belgrade, RS)                                                                                                    |       |
| <b>MitraClip to treat systolic anterior motion-induced outflow tract obstruction in hypertrophic obstructive cardiomyopathy</b>         | PI053 |
| A.G. Pavon (Milan, IT)                                                                                                                  |       |
| <b>Acute heart failure by parvovirus B19</b>                                                                                            | PI054 |
| A. Nunes (Sao Mamede De Infesta, PT)                                                                                                    |       |
| <b>Multimodality assessment of myocardial involvement in female carriers of the Duchenne disease</b>                                    | PI055 |
| J.J. Portero Portaz (Albacete, ES)                                                                                                      |       |
| <b>Cardiovascular complications in hypereosinophilic syndrom-a case report</b>                                                          | PI056 |
| C. Stefan (Bucharest, RO)                                                                                                               |       |
| <b>Giant false left ventricle aneurysm in the myocardial infarction outcome</b>                                                         | PI057 |
| A. Namitkov (Krasnodar, RU)                                                                                                             |       |
| <b>From syncope to the diagnosis of systemic disease: the importance of a high index of suspicion</b>                                   | PI058 |
| M. Chivulescu (Bucharest, RO)                                                                                                           |       |
| <b>A total anomalous pulmonary venous return in 60-year-old patient.</b>                                                                | PI059 |
| A. Wojtkowska (Lublin, PL)                                                                                                              |       |
| <b>Atrial septal defect occluder fracture - diagnostic challenge in asymptomatic patient</b>                                            | PI060 |
| A.C. Gomes (Almada, PT)                                                                                                                 |       |
| <b>Marfan syndrome in two newborn infants</b>                                                                                           | PI061 |
| A. Jurko (Martin, SK)                                                                                                                   |       |
| <b>Isolated pulmonary valve regurgitation as a cause of severe right heart dilatation in an adult patient</b>                           | PI062 |
| I. Cazzoli (Roma, IT)                                                                                                                   |       |
| <b>Multimodality imaging - how to find the missing leak</b>                                                                             | PI063 |
| F. Valente (Lisbon, PT)                                                                                                                 |       |

14:00 - 18:00

Poster Session

POSTER AREA

## Poster session 5

## The imaging examination and quality assessment

- The natural course of heart failure with preserved ejection fraction (HFpEF) - insights from an exploratory echocardiographic registry** PI064  
M. Koschutnik, M. Schwaiger, C. Zotter-Tufaro, S. Aschauer, F. Duca, A. Kammerlander, D. Bonderman, J. Mascherbauer (Vienna, AT)
- Epicardial fat and effectiveness of catheter radiofrequency ablation in patients with atrial fibrillation and metabolic syndrome** PI065  
V.A. Ionin, E.L. Zaslavskaya, A.V. Soboleva, O.V. Listopad, K.N. Malikov, E.I. Baranova, E.V. Shlyakhto (Saint Petersburg and Saint-Petersburg, RU)
- Systematic disinfection of echocardiographic probe after each examination to reduce the persistence of pathogens as a potential source of nosocomial infections** PI066  
S. Boeckstaens, M. Van Der Hoogstraete, N. Coltel, N. De Laet, C. Beernaerts, K. Desmet, K. Gillis, S. Droogmans, B. Cosyns (Brussels, BE)

## Assessment of morphology and function

- Left atrial mechanical function assessed by two-dimensional echocardiography in hypertensive patients** PI067  
L. Zakhama, S. Antit, B. Herbegue, I. Slama, A. Belaouer, S. Chenik, E. Boussabah, M. Thameur, M. Masmoudi, S. Benyoussef (La Marsa, TN)
- Real live applications of three-dimensional echocardiographic quantification of the left ventricular volumes and function using an automated adaptive analytics algorithm** PI068  
R. Hinojar, C. Fernandez-Golfín, A. Gonzalez-Gomez, E. Casas, A. Garcia Martin, A. Pardo, D. Del Val, S. Ruiz, J.L. Moya, V. Barrios, J.J. Jimenez Nacher, J.L. Zamorano (Madrid, ES)
- 3D echocardiographic left ventricular dyssynchrony indices in end stage kidney disease: associations and outcomes** PI069  
D.Y.Y. Chiu, P.A. Kalra, D. Green, J. Hughes, S. Sinha, N. Abidin (Manchester, GB)
- Relative contribution of right ventricular longitudinal shortening and radial displacement to global pump function in healthy volunteers** PI070  
A. Kovacs, D. Muraru, B.K. Lakatos, E. Surkova, D. Peluso, Z. Toser, M. Tokodi, B. Merkely, L.P. Badano (Budapest, HU; Padua, IT)
- ECHO-parameters, associated with short-term mortality and long-term complications in patients with pulmonary embolism of high and intermediate risk** PI071  
E.A. Kochmareva, A.L. Volkova, V.A. Rusina, V.A. Kokorin, I.G. Gordeev (Moscow, RU)
- Increased epicardial fat is an independent marker of heart failure with preserved ejection fraction.** PI072  
E. Saliba, M. Baudet, C. Chartrand Lefebvre, A. Chen-Tournoux, A. Hodzic, F. Tournoux (Montreal, CA)
- Influence of optimized beta-blocker therapy on diastolic dysfunction determined echocardiographically in heart failure patients** PI073  
D. Stanojevic, S. Apostolovic, R. Jankovic-Tomasevic, D. Djordjevic-Radojkovic, S. Salinger-Martinovic, T. Kostic, E. Tahirovic, H.D. Dungen (Nis, RS; Berlin, DE)
- Early diastolic mitral flow velocity/ annular velocity ratio is a sensitive marker of elevated filling pressure in left ventricular dyssynchrony** PI074  
J. Aalen, O.S. Andersen, E. Gude, A. Andreassen, O.O. Aalen, C.K. Larsen, E.W. Remme, O.A. Smiseth (Oslo, NO)
- Left ventricular diastolic function in STEMI patients receiving early and late reperfusion by percutaneous coronary intervention** PI075  
X.H. Chen, H.G. Xu, F.C. Liu, D.G. Zha, K. Cui, A.D. Zhang (Guangzhou, CN)
- Could anatomical and functional features predict cerebrovascular events in patients with patent foramen ovale?** PI076  
C. Zito, O. Trio, E. Soraci, M. Cusma Piccione, G.Damico, A. Ioppolo, L. Alibani, G. Falanga, M.C. Todaro, L. Oreto, G. Nucifora, G. Vizzari, F. Pizzino, G. Di Bella, S. Carerj (Messina, IT)

## Ischaemic heart disease

- Efficacy of endarterectomy of the left anterior descending artery: evaluation by adenosine echocardiography?** PI077  
E. Demerouti, M. Boutsikou, K. Perreas, C.H. Katselis, G. Samanidis, T.H. Antoniou, G. Karatasakis (Athens, GR; London, GB)
- Left ventricular diastolic dysfunction after acute myocardial infarction with preserved ejection fraction is related to lower exercise capacity** PI078  
K. Smarz, B. Zaborska, T. Jaxa-Chamiec, P. Maciejewski, Z. Bartoszewicz, A. Budaj (Warsaw, PL)
- Potentially predictors of ventricular arrhythmia during six months follow up in STEMI patients** PI079  
G. Krljanac, D. Trifunovic, M. Asanin, L. Savic, D. Matovic, M. Petrovic, N. Zlatić, I. Mrdovic (Belgrade, RS)

## Heart valves

- Association between left atrial dilatation and invasive haemodynamics at rest and during exercise in asymptomatic aortic stenosis** PI080  
N.L. Christensen, J.S. Dahl, R. Carter-Storch, R. Bakkestroem, E. Soendergaard, L. Videbaek, J.E. Moeller (Odense, DK)
- Cardiac amyloidosis and aortic stenosis - the convergence of two aging processes and its association with outcomes** PI081  
J.L. Cavalcante, S. Rijal, I. Abdelkarim, A.D. Althouse, M.S. Sharbaugh, Y. Fridman, W. Han, P. Soman, D.E. Forman, J.T. Schindler, T.G. Gleason, J.E. Lee, E.B. Schelbert (Pittsburgh, US)
- Prognostic impact of initial left ventricular dysfunction and mean gradient after transcatheter aortic valve implantation** PI082  
M. Pal, G. Dekany, A. Mandzak, A.K. Chaurasia, J. Gyovai, N. Hegedus, Z.S. Piroth, G.Y. Szabo, G. Fontos, P. Andreka (Budapest, HU)
- Distribution and prognostic significance of left ventricular global longitudinal strain in asymptomatic significant aortic stenosis: an individual participant data meta-analysis** PI083  
J. Magne, B. Cosyns, B.A. Popescu, H.G. Carstensen, J. Dahl, M. Desai, L. Kearney, T. Marwick, K. Sato, M. Takeuchi, C. Zito, D. Mohty, P. Lancellotti, G. Habib (Limoges and Marseille, FR; Brussels and Liege, BE; Bucharest, RO; Copenhagen and Odense, DK; Cleveland, US; Melbourne and Brisbane, AU; Tsukuba and Kitakyushu, JP; Messina, IT)
- Discrepancies between echocardiographic and invasive assessment of aortic stenosis in multimorbid elderly patients** PI084  
G. Giannakopoulos, S. Noble, A. Frei, H. Mueller (Geneva, CH)
- Echocardiographic determinants and outcome of patients with low-gradient moderate and severe aortic valve stenosis: implications for aortic valve replacement** PI085  
D. Liu, K. Hu, E. Liebner, F. Weidemann, S. Herrmann, G. Ertl, W. Voelker, A. Gorski, R. Leyh, S. Stoerk, P. Nordbeck (Wuerzburg and Unna, DE)

|                                                                                                                                                                                                                                                        |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Atrial deformation correlated with functional capacity in mitral stenosis                                                                                                                                                                              | PI086 |
| C.Y. Chien, W.C. Tsai (Chiayi and Tainan, TW)                                                                                                                                                                                                          |       |
| Net atrioventricular compliance can predict reduction of pulmonary artery pressure after percutaneous mitral balloon commissurotomy                                                                                                                    | PI087 |
| T. Moustafa, M. Aldydemony (Zagazig, EG)                                                                                                                                                                                                               |       |
| Match and mismatch between opening area and resistance in mild and moderate rheumatic mitral stenosis                                                                                                                                                  | PI088 |
| I. El-Dosouky (Zagazig, EG)                                                                                                                                                                                                                            |       |
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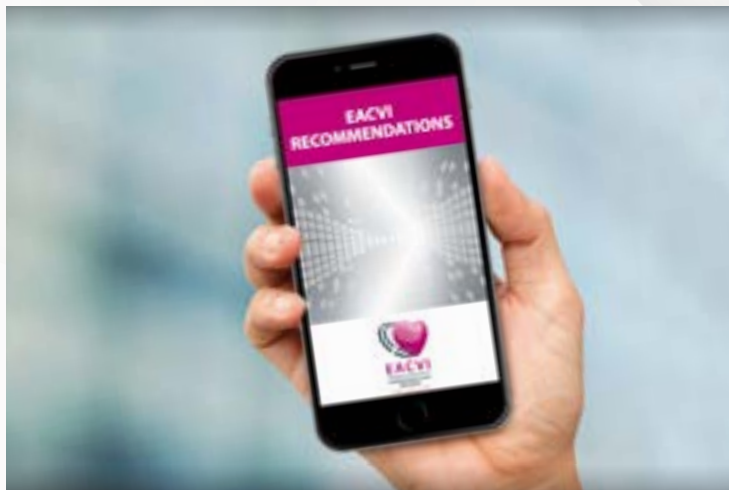
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# EuroEcho Imaging 2016



## Saturday Sessions



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INDEX

08:30 - 10:00

Clinical Imaging

MAHLER

## Difficult cases in valvular intervention

*Clinical Pathways*

*Mobile App Interactive Session*



Chairpersons: E. Chammas (Beirut, LB); M.J. Swaans (Hedel, NL)

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08:30 - 10:00

Symposium

WAGNER

## Imaging in unclassified cardiomyopathies

*Joint session with ECOSIAC*



Chairpersons: M.S. Casella (Ramos Mejia, AR); V.M. Parato (San Benedetto Del Tronto, IT)

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08:30 - 10:00

Symposium

BRAHMS

## A career in multimodality imaging

*EACVI HIT (Heart Imagers of Tomorrow)*



Chairpersons: R.C. Vidal Perez (Santiago De Compostela, ES); S. Narula (New York, US)

- |       |                                                                                                                                       |      |
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08:30 - 10:00

Teaching Course

SCHUMANN

## Disease of the aorta

**Chairpersons: O. Chioncel (Bucuresti, RO); E. Agricola (Milan, IT)**

*Core Curriculum: 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.*

|       |                                                                                                  |      |
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08:30 - 10:00

Symposium

STRAUSS

## Multimodality cardiac imaging trials in coronary artery disease: viewpoints “across the Ocean”..

*Joint session with the American Society of Nuclear Cardiology (ASNC)*



**Chairpersons: P.A. Kaufmann (Zurich, CH); W. Jaber (Cleveland, US)**

|       |                                                                                                                                                                                              |      |
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08:30 - 10:00

Clinical Cases

AGORA

## See that case at least once

**Chairpersons: P. Colonna (Bari, IT); T. Binder (Vienna, AT)**

*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.*

|       |                                                                                                                                                                 |      |
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| 08:40 | <b>Left ventricular pseudoaneurysm after radiofrequency ablation of premature ventricular contractions</b><br>N. Zhukovskiy (St. Petersburg, RU)                | I175 |
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| 09:20 | <b>Left atrial dissection after myocardial infarction</b><br>R.A. Guerreiro (Evora, PT)                                                                         | I179 |
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| 09:40 | <b>Doppler flow velocities pattern in a thrombophilic patient with an lvad thrombosis</b><br>A. Cereda (Airuno, IT)                                             | I181 |
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10:00 - 11:00

Clinical Cases

AGORA

## Cases from outside Europe

**Chairpersons: G. Di Salvo (London, GB); A. Salustri (Abu Dhabi, AE)**

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.

|       |                                                                                                                             |      |
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| 10:00 | <b>Panel of experts:</b><br>A.S. Pearlman (Seattle, US); K. Hristova (Sofia, BG)                                            | II83 |
| 10:00 | <b>Don't overlook Fabry disease as an aetiology of hypertrophic cardiomyopathy</b><br>S.H. Park (Daejeon, KR)               | II84 |
| 10:10 | <b>severe mitral valve damage after MitraClip</b><br>B. Ren (Rotterdam, NL)                                                 | II85 |
| 10:20 | <b>Arrhythmogenic right ventricular dysplasia versus shunt</b><br>A.M. Jamel (Riyadh, SA)                                   | II86 |
| 10:30 | <b>A thrombus that stops the giant</b><br>A.M. Ragab (Cairo, EG)                                                            | II87 |
| 10:40 | <b>The milk bottle echo</b><br>P.V. Parekh (Singapore, SG)                                                                  | II88 |
| 10:50 | <b>Myocardial fibrosis in rheumatic mitral stenosis: quantitative evaluation by T1 mapping</b><br>E. Sahara (Tangerang, ID) | II89 |

10:00 - 11:00

Moderated Posters

MODERATED POSTER AREA

## A little bit of everything

**Chairpersons: M.J. Andrade (Lisbon, PT); L. Perez De Isla (Madrid, ES)**

Presenters will highlight key points of their research and answer questions from two moderators in front of an audience during official lunch breaks.

|  |                                                                                                                                                                                                                                                                                                                                                           |       |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
|  | <b>What causes mitral annulus dilatation-A three dimensional study</b><br>V. Boileve, J. Dreyfus, D. Attias, I. Codogno, E. Brochet, A. Vahanian, D. Messika-Zeitoun (Paris and Saint Denis, FR)                                                                                                                                                          | PI190 |
|  | <b>Impact of interventional edge-to-edge repair with the MitraClip system on mitral valve geometry: Long-term results from a prospective single centre study.</b><br>R. Schueler, S. Kaplan, C. Oeztuerk, M. Weber, J.M. Sinning, A. Welt, N. Werner, G. Nickenig, C. Hammerstingl (Bonn, DE)                                                             | PI191 |
|  | <b>Real live applications of three-dimensional echocardiographic quantification of the left atrial volumes using an automated adaptive analytics algorithm</b><br>R. Hinojar, C. Fernandez-Golfín, A. Gonzalez-Gomez, A. Garcia Martin, E. Casas, D. Del Val, A. Pardo, A. Mejias, J.L. Moya, V. Barrios, J.J. Jimenez Nacher, J.L. Zamorano (Madrid, ES) | PI192 |
|  | <b>Quantitative ultrasound evaluation of the changes on tissue characteristics of carotid plaques by lipid lowering therapy</b><br>M. Bando, H. Yamada, R. Amano, R. Tamai, Y. Torii, S. Nishio, Y. Seno, K. Kusunose, M. Sata (Kumamoto and Tokushima, JP)                                                                                               | PI193 |
|  | <b>Effort heart rate increase is an independent predictor of longitudinal function reserve in the trained heart: a stress echocardiography study.</b><br>F. Lo Iudice, C. Santoro, A. Buonauro, M. Ferrone, R. Esposito, B. Trimarco, M. Petitto, M. Galderisi (Naples, IT)                                                                               | PI194 |
|  | <b>Incremental value of strain imaging in classification of heart failure with normal ejection fraction</b><br>O.S. Andersen, E. Gude, A.K. Andreassen, K. Broch, H. Skulstad, O.A. Smiseth, E.W. Remme (Oslo, NO)                                                                                                                                        | PI195 |
|  | <b>Multimodality work-up of young stroke patients is beneficial</b><br>K.M. Nielsen, D.W. Damgaard, J.M. Jensen, K.L. Kraglund, W.Y. Kim (Aarhus, DK)                                                                                                                                                                                                     | PI196 |
|  | <b>Prognostic significance of the hemodynamic non-invasive assessment in patients with dilated cardiomyopathy</b><br>M. Merlo, D. Stolfo, M. Gobbo, G. Gabassi, G. Barbati, A. De Luca, R. Korcova, G. Secoli, B. Pinamonti, G. Sinagra (Trieste, IT)                                                                                                     | PI197 |

10:10 - 10:55

How-to Session

MAHLER

## How to prepare a scientific lecture (how to be a good speaker) EACVI HIT (Heart Imagers of Tomorrow)



Chairperson: J. Grapsa (London, GB)

Practical details and tools or tips and tricks on a specific topic. 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:**

F.E. Rademakers (Leuven, BE)

1198

11:00 - 12:30

Special Session

MAHLER

## EuroEcho-Imaging 2016 highlights The best of EuroEcho-Imaging 2016 summarised in one session!

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

|       |                                                                                 |      |
|-------|---------------------------------------------------------------------------------|------|
| 11:00 | <b>Heart failure.</b><br>E. Donal (Rennes, FR)                                  | 1199 |
| 11:15 | <b>New technologies.</b><br>B. Cosyns (Brussels, BE)                            | 1200 |
| 11:30 | <b>Valve.</b><br>J. Magne (Limoges, FR)                                         | 1201 |
| 11:45 | <b>Congenital heart disease.</b><br>O. Miller (London, GB)                      | 1202 |
| 12:00 | <b>Computed tomography.</b><br>A. Gimelli (Pisa, IT)                            | 1203 |
| 12:15 | <b>Cardiovascular magnetic resonance.</b><br>C. Bucciarelli-Ducci (Bristol, GB) | 1204 |

11:00 - 12:30

Symposium

WAGNER

## The forgotten regurgitation

Chairpersons: S. Benyoussef (La Marsa, TN); S.C. Govind (Bangalore, IN)

|       |                                                                                                                        |      |
|-------|------------------------------------------------------------------------------------------------------------------------|------|
| 11:00 | <b>Tips and tricks in tricuspid valve evaluation : from M-mode to 3D.</b><br>D. Muraru (Padua, IT)                     | 1205 |
| 11:22 | <b>Assessment of tricuspid regurgitation before left-sided valve intervention.</b><br>T. Le Tourneau (Nantes, FR)      | 1206 |
| 11:45 | <b>How to assess tricuspid prosthesis and ring : the role of multi-imaging modelities.</b><br>A. Ionescu (Swansea, GB) | 1207 |
| 12:07 | <b>Tricuspid regurgitation after left-sided valve interevention.</b><br>J. Mascherbauer (Vienna, AT)                   | 1208 |

11:00 - 12:30

Symposium

BRAHMS

## Pericardial disease Joint session with the Iranian Society of Echocardiography (ISE)



Chairpersons: P.P. Sengupta (New York, US); S.Z.M. Ojaghi Haghighi (Tehran, IR)

|       |                                                                                           |      |
|-------|-------------------------------------------------------------------------------------------|------|
| 11:00 | <b>What is new in Constrictive pericarditis.</b><br>R. Sattarzadeh Badkoubek (Tehran, IR) | 1209 |
| 11:22 | <b>Deformation imaging.</b><br>N. Samiei (Tehran, IR)                                     | 1210 |
| 11:45 | <b>Tamponade.</b><br>M. Imazio (Torino, IT)                                               | 1211 |
| 12:07 | <b>CMR in pericardial disease.</b><br>F. Alpendurada (London, GB)                         | 1212 |

11:00 - 12:30

Teaching Course

SCHUMANN

## Cardiac Masses and source of embolism

**Chairpersons: M.J. Andrade (Lisbon, PT); C. Mornos (Dumbravita, RO)**

*Core Curriculum: 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 | <b>Cardiac tumor.</b>                                               | I213 |
|       | J. Separovic Hanzevacki (Zagreb, HR)                                |      |
| 11:22 | <b>Thromboembolism risk assessment in atrial fibrillation.</b>      | I214 |
|       | P. Colonna (Bari, IT)                                               |      |
| 11:45 | <b>Intra-cardiac thrombus.</b>                                      | I215 |
|       | K. Yiangou (Nicosia, CY)                                            |      |
| 12:07 | <b>Role of contrast echo and cardiovascular magnetic resonance.</b> | I216 |
|       | H. Vago (Budapest, HU)                                              |      |

11:00 - 12:30

Symposium

STRAUSS

## Ischaemic heart disease and the role of multi-imaging modalities

*Joint session with the Saudi Heart Association (SHA)*



**Chairpersons: A.J. Kinsara (Jeddah, SA); A. Moreo (Milan, IT)**

|       |                                                                                   |      |
|-------|-----------------------------------------------------------------------------------|------|
| 11:00 | <b>Role of echocardiography in the management of acute myocardial infarction.</b> | I217 |
|       | M. Alrefai (Dammam, SA)                                                           |      |
| 11:22 | <b>Role of CMR and CT in the management of acute myocardial infarction.</b>       | I218 |
|       | L. Biere (Angers, FR)                                                             |      |
| 11:45 | <b>Role of echocardiography in the management ischaemic mitral regurgitation.</b> | I219 |
|       | J. Alrahimi (Jeddah, SA)                                                          |      |
| 12:07 | <b>Role of CMR and CT in the management of ischaemic mitral regurgitation.</b>    | I220 |
|       | G. Pontone (Milan, IT)                                                            |      |

# EuroEcho Imaging 2016



## Saturday Posters



**FOLLOW US LIVE**  
**#EuroEcho**

WEDNESDAY  
SESSIONS

WEDNESDAY  
POSTERS

THURSDAY  
SESSIONS

THURSDAY  
POSTERS

FRIDAY  
SESSIONS

FRIDAY  
POSTERS

SATURDAY  
SESSIONS

SATURDAY  
POSTERS

INDEX

## HIT POSTER SESSIONS

All moderated posters are on display from 08:30 to 12:30.

10:00-11:00 - A little bit of everything.

Meet the presenters by their poster.

## ABSTRACT & CLINICAL CASE POSTER SESSIONS

### MORNING POSTER SESSION

All posters are on display from 08:30 to 12:30.

10:00-11:00 - Meet the presenters by their poster.

### HIGH SCORE POSTER

Look out for these abstracts acknowledged by the reviewing committee.

### Missed a presentation?

After the congress, abstracts will be available online and a selection of slide presentations will be available only to EACVI Members.

[More information on the ESC-EACVI Stand.](#)

## IMPORTANT INFORMATION FOR PRESENTERS

### MORNING SESSIONS:

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

All posters not affixed by 10:00 may be considered as no-show.

Posters must be removed from the area between 12:30 -13:00.

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

08:30 - 12:30

Poster Session

POSTER AREA

## Poster session 6

## Assessment of morphology and function

- Multimodality imaging for left atrial appendage occluder sizing** PI222  
R. Wassmuth, H. Minden (Hennigsdorf, DE)
- Longitudinal left atrial strain is a main predictor for long term prognosis on atrial fibrillation after CABG operation patients** PI223  
K. Hristova, V. Kostova, N. Nesheva, T.Z. Katova, L. Bojadzhiev (Sofia, BG)
- Comparison of 2D and 3D left ventricular volumes measurements: results from the SKIPOGH II study** PI224  
P. Monney, V. Crisinel, S. Reverdin, L. Conti, F. Mach, H. Mueller, X. Jeanrenaud, M. Bochud, G. Ehret (Lausanne and Geneva, CH)
- Adjusting for thoracic circumference is superior to body surface area in the assessment of neonatal cardiac dimensions in foetal growth abnormality** PI225  
R.F.W. Olander, J.K.M. Sundholm, T. Ojala, S. Andersson, T. Sarkola (Helsinki, FI)
- Maximal vortex suction pressure: an equivocal marker for optimization of atrio-ventricular delay** PI226  
D. Rodriguez Munoz, J.L. Moya Mur, B. Berlot, C. Fernandez-Golfin, J. Moreno Planas, E. Casas Rojo, A. Garcia Martin, J.J. Jimenez Nacher, A. Hernandez-Madrid, E. Franco Diez, R. Matia Frances, J.L. Zamorano (Madrid, ES)
- Volume-time curve of cardiac magnetic resonance assessed left ventricular dysfunction in coronary artery disease patients with type 2 diabetes mellitus** PI227  
X. Huayan, Y.A.N.G. Zhigang, G.U.O. Yingkun, C.H.E.N. Jing (Chengdu and Cheng du, CN)
- Thickness matters, but not in the same way for all strain parameters.** PI228  
E. Pagourelas, J. Duchenne, O. Mirea, A. Triantafyllis, B. Michalski, G. Vovas, M. Delforge, J. Van Cleemput, J. Bogaert, J.U. Voigt (Leuven, BE)
- Digging deeper in postoperative modifications of right ventricular function: impact of pericardial approach and cardioplegia** PI229  
C. Loardi, M. Saccocchi, G. Tamborini, F. Veglia, M. Pepi, F. Alamanni, M. Zanobini (Milan, IT)
- Left atrial function evaluated by 2D-speckle tracking echocardiography in diabetes mellitus population.** PI230  
J. Moreno, J.J. Zuniga Sedano, E. Alexanderson, C. Martinez (Guadalajara and Mexico City, MX)
- The influence of arterial hypertension duration on left ventricular diastolic parameters in patients with well regulated arterial blood pressure** PI231  
T. Miljkovic, M. Bjelobrk, K. Pavlovic, A. Ilic, S. Colakovic, S. Dodic (Sremska Kamenica, RS)
- Investigation of factors affecting left ventricular diastolic dysfunction determined using mitral annulus velocity** PI232  
H. Takase, T. Tanaka, M. Machii, D. Nonaka (Hamamatsu, JP)

## Ischaemic heart disease

- High regulatory T-lymphocytes after ST-elevation myocardial infarction relate with adverse left ventricular remodelling assessed by 3D-echocardiography.** PI233  
S.C. Latet, P.L. Van Herck, M.J. Claeys, S.E. Haine, H.P. Miljoen, V.F. Segers, T.R. Vandendriessche, B.Y. De Winter, V.Y. Hoymans, C.J. Vrints (Antwerp, BE)

## Heart valves

- Prevalence of paradoxical low flow/low gradient severe aortic stenosis measure with 3 dimensional transesophageal echocardiography** PI234  
R. Henquin, M. Lombardero, G. Perea (Buenos Aires, AR)
- Coronary microvascular and diastolic dysfunctions after aortic valve replacement: comparison between mechanical and biological prostheses.** PI235  
R. America, M.M. Miele, D.A.V. De Amicis, V.A.M. Mannacio (Naples and Mercogliano, IT)
- Normal-flow, low gradient aortic stenosis is common in a population of patients with severe aortic valve stenosis undergoing aortic valve replacement** PI236  
R. Carter-Storch, J.S. Dahl, N.L. Christensen, E.V. Soendergaard, N. Marcussen, J.E. Moeller (Odense, DK)
- Analysis of validity and reproducibility of calcium burden visual estimation by echocardiography** PI237  
M.L. Pano, C. Fernandez-Palomeque, D. Garcia-Vega, L. Mont-Girbau (Sant Cugat del Vallès, Palma de Mallorca and Barcelona, ES)
- 3D full automatic software in the evaluation of aortic stenosis severity in TAVI patients. Preliminary results** PI238  
C. Fernandez-Golfin, A. Pardo, C. Izurieta, I. Boretti, R. Hinojar, A. Gonzalez-Gomez, A. Garcia Martin, E. Casas, L. Salido, V. Barrios, S. Ruiz, J.L. Moya, R. Hernandez Antolin, J.L. Jimenez Nacher, J.L. Zamorano (Madrid, ES)
- Differential impact of net atrioventricular compliance on clinical outcomes in patients with mitral stenosis according to cardiac rhythm** PI239  
I.J. Cho, H.J. Chang, H.H. Choi, S.Y. Lee, C.Y. Shim, J.W. Ha, N. Chung (Seoul, Chuncheon and Bucheon, KR)
- Aortic regurgitation affects the intima-media thickness of the right and left common carotid artery differently** PI240  
J. Petrini, M. Ring, K. Caidahl, M.J. Eriksson (Stockholm, SE)
- Global longitudinal strain: an hallmark of cardiac damage in mitral valve regurgitation. Experience from the european registry of mitral regurgitation** PI241  
A. Buonauro, R. Esposito, C. Santoro, J.M. Monteagudo, B. Trimarco, M. Galderisi, J.L. Zamorano (Naples, IT; Madrid, ES)
- Echocardiographic characterisation of Barlow's disease versus fibroelastic deficiency** PI242  
B. Liu, S. Baig, M. Hayer, R. Steeds, N. Edwards (Birmingham, GB)
- Echocardiographic screening for rheumatic heart disease in a ugandan orphanage - feasibility and outcomes** PI243  
M. Mapelli, L. Fusini, P. Zagni, M. Muratori, P. Agostoni, G. Tamborini, P. Gripari, S. Ghulam Ali, M. Pepi, C. Fiorentini (Milan and Modena, IT)
- Alterations in right ventricular mechanics upon follow-up period in patients with persistent Ischaemic mitral regurgitation after inferoposterior myocardial infarction** PI244  
E. Tamulenaite, Z. Valuckiene, R. Jurkevicius (Kaunas, LT)

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| Ten-years conventional mitral surgery in patients with mitral regurgitation and left ventricular dysfunction: clinical and echocardiographic outcomes                                                                      | PI245 |
| B. De Chiara, A. Peritore, L. Botta, O. Belli, F. Musca, F. Casadei, C. Russo, C. Giannattasio, A. Moreo (Milan, IT)                                                                                                       |       |
| Age-, body size-, and sex-specific reference values for tricuspid valve apparatus parameters by real-time three-dimensional transthoracic echocardiography                                                                 | PI246 |
| F. Ancona, C. Marini, S. Stella, I. Rosa, A. Margonato, E. Agricola (Milan, IT)                                                                                                                                            |       |
| Surgical therapy in infective endocarditis: predisposing and prognostic factors                                                                                                                                            | PI247 |
| R. Ilhao Moreira, M. Coutinho Cruz, L. Moura Branco, A. Galrinho, L. Coutinho Miranda, A.T. Timoteo, A. Viveiros Monteiro, G. Portugal, J. Fragata, R. Cruz Ferreira (Lisbon, PT)                                          |       |
| Evaluation of MV annulus geometry modifications before and after mitralclip implantation with 3D transesophageal echocardiography.                                                                                         | PI248 |
| V. Lavanco, L.A. Leo, E. Pasotti, F.F. Faletra, T. Moccetti (Lugano, CH)                                                                                                                                                   |       |
| Prognostic echocardiographic parameters for successful transcatheter edge-to-edge mitral valve repair                                                                                                                      | PI249 |
| H. Lesevic, M. Karl, S. Rosner, I. Ott, C. Sonne (Munich, DE; Athens, GR)                                                                                                                                                  |       |
| Influence of body surface area in diagnosis and outcome patient-prosthesis mismatch after TAVI. Is it necessary to adjust for ideal body weight?                                                                           | PI250 |
| F.I. Islas, C. Olmos, A. De Agustin, C. Almeria, P. Marcos-Alberca, L. Nombela, P. Mahia, J.L. Rodrigo, M. Luaces, P. Jimenez, B. Parra, J.J. Gomez, M.A. Garcia Fernandez, C. Macaya, L. Perez De Isla (Madrid, ES)       |       |
| Outcome of paradoxical low-flow low-gradient severe AS following TAVI: paradoxical VS parallel to outcome of high gradient AS                                                                                              | PI251 |
| A. Katbeh, F. Islas, L. Nombela, P. Jimenez, A. Fernandez Ortiz, C. Olmos, P. Marcos Alberca, A. De Agustin, P. Mahia, C. Almeria, J. Luis Rodrigo, M. Luaces, J. Gomez De Diego, L. Perez De Isla, C. Macaya (Madrid, ES) |       |
| Prognostic role of cardiac calcifications in subjects without overt significant heart disease and previous cardiovascular events: is there an additive value over cardiovascular risk factors scores?                      | PI252 |
| C. Mazzone, C. Di Nora, F. Guidetti, G. Barbat, P. Faggiano, N. Gaibazzi, A. Di Lenarda, A. Cherubini, G. Faganello, G. Cioffi (Trieste, Brescia, Parma and Trento, IT)                                                    |       |
| Aging degeneration of mitral valve without leaflet prolapse or tethering as a cause of severe mitral regurgitation                                                                                                         | PI253 |
| A. Isotani, T. Schau, M. Neuss, M. Schoepp, C. Butter (Bernau bei Berlin, DE)                                                                                                                                              |       |
| Cardiovascular risk assessment should be performed in patients with incidental aortic sclerosis                                                                                                                            | PI254 |
| L.J. Arnold, S. Coffey, M. Loudon, J. Wilson, A. Kennedy, S. Myerson, B. Prendergast (Oxford and London, GB; Sydney, AU)                                                                                                   |       |
| Cardiac valve calcification score: simple 2D echocardiographic tool for cardiovascular risk stratification in patients with chronic renal failure.                                                                         | PI255 |
| C. Papadopoulos, K. Mpaltoumas, K. Triantafyllou, A. Fotoglidis, E. Kassimatis, E. Sampani, E. Pagourelas, A. Papagianni, G. Kotsiourous, V. Vassilikos (Thessaloniki, GR)                                                 |       |
| Diastolic mitral regurgitation following transcatheter aortic valve replacement: prevalence, predictors and impact on outcomes                                                                                             | PI256 |
| N. Flint, Z. Rozenbaum, Y. Topilsky, S. Biner, A. Finkelstein, S. Banai, G. Keren, A. Halkin (Tel Aviv, IL)                                                                                                                |       |
| <b>Cardiomyopathies</b>                                                                                                                                                                                                    |       |
| Timing of myocardial shortening determines left ventricular regional remodelling in hearts with conduction delays                                                                                                          | PI257 |
| M. Cvijic, B. Michalski, I. Stankovic, J. Duchenne, J.U. Voigt (Ljubljana, SI; Leuven, BE)                                                                                                                                 |       |
| Myocardial stiffness assessment using shear wave imaging in healthy children and hypertrophic cardiomyopathy                                                                                                               | PI258 |
| O. Villemain, M. Correia, D. Khraiche, M. Pernot, D. Bonnet (Paris, FR)                                                                                                                                                    |       |
| Assessment of right ventricular response to exercise using vector velocity imaging in hypertrophic cardiomyopathy                                                                                                          | PI259 |
| W. Hamed, H.M.B. Badran, N.F.A. Ahmed (Shebin El-kom, EG)                                                                                                                                                                  |       |
| Diagnostic value of cardiac biomarkers (high sensitive troponin T and N-terminal pro-brain natriuretic peptide) in patients with infiltrative cardiomyopathies                                                             | PI260 |
| K. Hu, D. Liu, P. Nordbeck, S. Herrmann, G. Ertl, F. Weidemann, S. Stoerk (Wuerzburg and Unna, DE)                                                                                                                         |       |
| Right ventricular global longitudinal strain differentiates between adolescent patients with definite, borderline and possible ARVC and controls                                                                           | PI261 |
| G.E. Pieleas, M. Hader, M. Fatah, P. Chungsomprasong, C. Slorach, L. Mertens, L. Grosse-Wortmann, R. Hamilton, M.K. Friedberg (Toronto, CA)                                                                                |       |
| echographic predictif factors of atrial arrhythmias in patients with arrhythmogenic right ventricular dysplasia                                                                                                            | PI262 |
| A. Zaroui, M.F. Drissi, R. Ben Said, R. Mechmeche (tunis, TN)                                                                                                                                                              |       |
| Importance of combined left atrial size and estimated pulmonary pressure for clinical outcome in patients presenting with heart failure with preserved ejection fraction                                                   | PI263 |
| E. Donal, L.H. Lund, E. Oger, C. Hage, E. Drouet, J.C. Daubert, C. Linde (Rennes and Paris, FR; Stockholm, SE)                                                                                                             |       |
| Chronotropic response in mitochondrial (ANTI) cardiomyopathy                                                                                                                                                               | PI264 |
| D. Chowdhury, C. Pascua, K. Strauss, E. Puffenberger, B. Bijns (Lancaster, Philadelphia and Strasburg, US; Barcelona, ES)                                                                                                  |       |
| The effect of cardiovascular risk factors and cancer type in anthracycline's cardiotoxicity                                                                                                                                | PI265 |
| A.C. Gomes, L.R. Lopes, A.G. Ferreira, M. Correia, H. Mansinho, H. Pereira (Almada, PT)                                                                                                                                    |       |
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| M.L. Pena-Pena, F. Maglione, D. Rangel-Sousa, J.M. Sobrino-Marquez, E. Lage-Galle, A. Martinez-Martinez, F. Lopez-Pardo, J.E. Lopez Haldon, J.A. Urbano-Moral (Seville, ES)                                                |       |
| Altered circulation in fetuses of diabetic mothers: a fetal computational model analysis                                                                                                                                   | PI267 |
| A. Kulkarni, P. Garcia Canadilla, A. Khan, K. Beckerman, F. Crispi, M. Cruz-Lemini, B. Valenzuela Alcaraz, O. Gomez, E. Gratacos, B. Bijns (Bronx NY, US; Barcelona, ES)                                                   |       |
| Increased epicardial adipose tissue is related to stress-induced cardiomyopathy                                                                                                                                            | PI268 |
| S.M. Park, M.N. Kim, W.J. Shim (Seoul, KR)                                                                                                                                                                                 |       |

## Systemic diseases and other conditions

- Contrast enhanced ultrasound of kidney perfusion in patients with renal artery stenosis: diagnostic and prognostic applications.** PI269  
S. Castellani, G. Castellini, B. Brkljacic, F. Drudi, M. Bertolotto, B.K. Cruz, L. Needleman, V. Napoli, P.A. Modesti, N. Marchionni (Florence, Rome, Trieste and Pisa, IT; Zagreb, HR; Anchorage and Philadelphia, US)
- Effects of blood pressure variability on layer-specific longitudinal strain in hypertension** PI270  
W.-C. Tsai, W.-H. Lee, Y.-W. Liu (Tainan, TW)
- Left atrial dynamics and diastolic function in hypertensive patients** PI271  
E. Chamodrakas, E. Kallistratos, D. Athanasiou, S. Giannitsi, C. Manetos, G. Athanasiadis, M. Asonitis, N. Kouremenos, A. Tsoukas, A. Manolis (Athens, GR)
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N. Behzadnia, M. Asadpour-Piranfar, B.A.B.A.K. Sharif-Kashani, N. Ameli (Tehran, IR)
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A. Ledakowicz-Polak, G. Krauz, K. Stokfisz, M. Zielinska (Lodz, PL)
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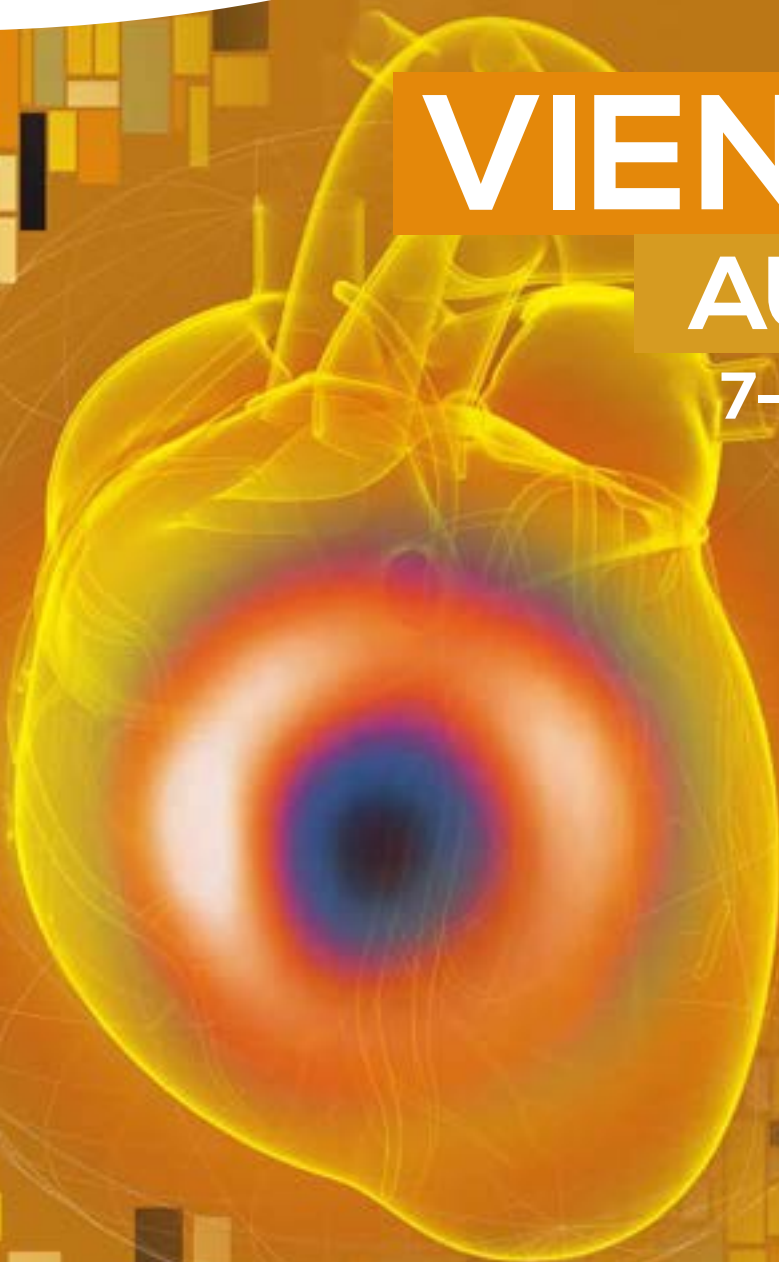


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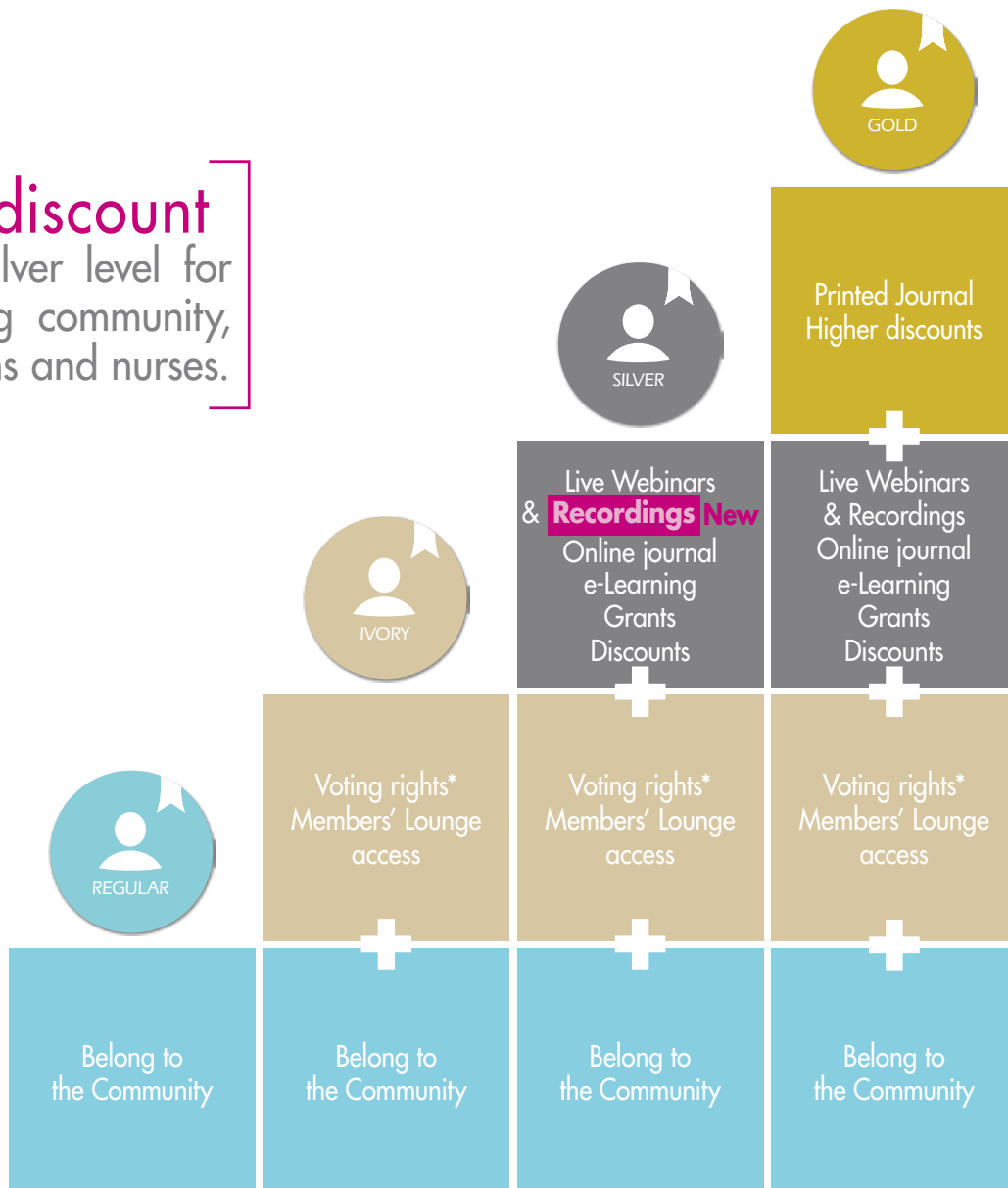
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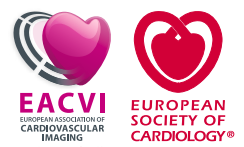


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