Annual congress of the EACVI

FINAL PROGRAMME

EuroEcho Imaging 2016
Leipzig - Germany, 7-10 December 2016

#EuroEcho
www.escardio.org/EACVI
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 20th 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.
Let’s celebrate the 20th 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

• 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).
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

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Scientific Programme Director

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

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

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

EuroEcho-Imaging 2016 Committees

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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)
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

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tuesday 6 December</strong></td>
<td>7:00</td>
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<td>Lunch</td>
</tr>
</tbody>
</table>

**AS:** Abstract Sessions  
**CB:** Coffee Breaks
# Table of content

CLICK ON THE PAGE YOU WANT TO SEE

<table>
<thead>
<tr>
<th>General Information</th>
<th>Page 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Congress resources</td>
<td>Page 10</td>
</tr>
<tr>
<td>• Don’t Miss</td>
<td>Page 12</td>
</tr>
<tr>
<td>• Industry at EuroEcho-Imaging 2016</td>
<td>Page 16</td>
</tr>
<tr>
<td>• Contact details</td>
<td>Page 18</td>
</tr>
</tbody>
</table>

Programme Overview by Session       Page 19

The European Association of Cardiovascular Imaging (EACVI)       Page 25

• About the EACVI                                      Page 26
• EACVI at a Glance                                    Page 28
• Make the most of your visit at EuroEcho-Imaging 2016  Page 31
• EACVI Educational Products available on the EACVI stand Page 32

## SCIENTIFIC PROGRAMME

### WEDNESDAY 7 DECEMBER       Page 35

• Teaching courses                                Page 36
  
• Wednesday Sessions                               Page 44
  
• Wednesday Posters                                Page 49

### THURSDAY 8 DECEMBER       Page 59

• Imaging Campus Sessions                         Page 60
  
• Thursday Morning Sessions                        Page 63
  
• Thursday Lunchtime Sessions                      Page 69
  
• Thursday Afternoon Sessions                      Page 72
  
• Thursday Posters                                 Page 79

### FRIDAY 9 DECEMBER       Page 95

• Imaging Campus Sessions                         Page 96
  
• Friday Morning Sessions                          Page 98
  
• Friday Lunchtime Sessions                        Page 104
  
• Friday Afternoon Sessions                        Page 106
  
• Friday Posters                                   Page 113

### SATURDAY 10 DECEMBER       Page 129

• Saturday Sessions                                Page 130
  
• Saturday Posters                                 Page 135

### Index       Page 143

• Index of Chairpersons and Judges                 Page 144
• Index of Speakers and Imaging Campus Presenters  Page 145
• Index of Authors                                 Page 148
Download
EuroEcho-Imaging 2016 Mobile App

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

Create your personal programme

Receive the latest news & follow #EuroEcho Twitter feed

Access full programme, exhibitors, maps & practical information

New! Direct access to Mobile App Interactive Sessions

Search for ‘EuroEcho2016’ in App Store® / Google Play

#EuroEcho
www.escardio.org/EACVI
General Information
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
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-know experts. These reports are prepared on-site by our voluntary reporters and published online every day on www.escardio.org/EACVI

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**Practical information**

**Internet connexion**
Free wifi is available at the congress center however please note that connectivity is subject to the volum of users.
Wifi name: eei-congress

**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.
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.
Live educational activities, occurring outside of Canada, recognised by the UEMS-EACCME for ECMEC credits are deemed to be Accredited Group Learning Activities (Section I) 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.
Special events

Inaugural Session
Wednesday 7 December, 16:00 - 18:05, room Beethoven
Featuring the Edler lecture by Professor Alan Fraser on “A 21st 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)
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!

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.

Innovation Corner
Friday 9 December, 10:00 - 11:00, Agora
Our industry partners will present their latest innovative products features and scientific achievements.

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 Imagiers 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.
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.

**LEVEL 0**

**EXHIBITION OPENING HOURS**

<table>
<thead>
<tr>
<th>Day</th>
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<tr>
<td>Wednesday 7 December</td>
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*except for the EACVI and EuroEcho-Imaging 2017 stands.*
Acknowledgements

Exhibitors*

3D Systems Healthcare .................................................. E7
American Society of Echocardiography ......................... G1
Anatomage Inc ................................................................. F6
Bracco .............................................................................. E2
CAE Healthcare ............................................................... G6
Cleveland Clinic Abu Dhabi ........................................... E8
Echo Research and Practice ........................................... C2
EuroEcho-Imaging 2017 prize draw ............................ A1
European Association of Cardiovascular Imaging (EACVI) / European Society of Cardiology (ESC) .......... I1
FUKUDA DENSHI ............................................................. F3
GE Healthcare ................................................................. D1
HeartWorks ..................................................................... G4
Hellenic Cardiological Society ........................................ B3
InHealth Echotech ........................................................... E6
Lantheus Medical Imaging, Inc ..................................... J3
Medical Simulation Technologies sp. z.o.o ...................... B1
Medical University of Lublin ......................................... B4
MediMatic Srl ................................................................. F2
Medis ............................................................................. B2
MIDES ULTRASOUND .................................................. E3
MINDRAY ...................................................................... J2
Oxford University Press ................................................ C1
Philips ............................................................................ K1
Pie Medical Imaging B.V ................................................. E5
Siemens Healthineers .................................................... H1
TOMTEC IMAGING SYSTEMS GMBH ......................... G5
Toshiba Medical Systems Europe ................................. J1
Tristel Solutions Limited ................................................. G2
UltraLinq Healthcare Solutions LTD ........................... F1
Valtech Cardio GmbH .................................................... E1
Wisperpress 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
EuroEcho-Imaging congress is only accessible to certified healthcare professionals.
Programme Overview by Session
Clinical Cases Sessions
- Cases from outside Europe. ........................................... Page 132
- Congenital heart disease. ........................................... Page 104
- Ischaemic heart disease. ........................................... Page 110
- Masses, tumors and source of embolism. ...................... Page 45
- Pericardial disease. ........................................... Page 110
- See that case at least once. ...................................... Page 131
- Top of the hub: best clinical cases. ...................... Page 108
- Valvular heart disease. ........................................... Page 47

Clinical Pathways
- Challenges in cardiac oncology. ...................... Page 102
- Difficult cases in valvular intervention. ...................... Page 130

Clinical Seminars
- Challenges in pulmonary hypertension. ................... Page 76
- Clinical imaging in atrioventricular valve percutaneous intervention. Page 63
- Clinical imaging in heart failure. ...................... Page 98
- Clinical imaging in hypertension. ...................... Page 109
- Heart failure and prosthetic valves. ...................... Page 72
- Imaging in atrial fibrillation: from diagnosis to treatment. Page 106
- Imaging in cardiac hypertrophy. ...................... Page 66
- Imaging in ischaemic heart disease. ...................... Page 101

Debate Sessions
- Gladiator. ................................................ Page 72
- Ischaemic heart disease: single or multimodality imaging. Page 76
- Jekyll and Mr Hyde. ........................................ Page 102
- Safety of cardiac imaging: danger zone. ................... Page 67

HIT Moderated Posters
- HIT moderated posters: imaging of tomorrow. .......... Page 46

HIT Poster Sessions
- HIT Poster session 1. ........................................ Page 51
- HIT Poster session 2. ........................................ Page 81
- HIT Poster session 3. ........................................ Page 115

HIT Recommended sessions
- A career in multimodality imaging. ....................... Page 130
- Advanced imaging in advanced heart failure. .......... Page 77
- EuroEcho-Imaging 2016 highlights. ....................... Page 133
- 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
### Imaging Campus sessions
- Automated Strain analysis for Cardio-Oncology in practice
  - Sponsored by TomTec Imaging Systems GmbH
  - Page 62
- Understanding Echo guidance for Percutaneous Mitral Valve Repair, Patients screening and procedure
  - Sponsored by GE Healthcare - Abbott
  - Page 60
- EACVI HIT workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners
  - Organised by the EACVI
  - Page 61
- Imaging of cardiac anatomy
  - Organised by the EACVI
  - Page 97
- Pulmonary Hypertension – Comprehensive evaluation of the Right Ventricle
  - Sponsored by TomTec Imaging Systems GmbH
  - Page 62

### Main Sessions
- Aorta in aortic valve disease
  - Page 66
- 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
- The walking dead: role of imaging after Sudden Cardiac Death (SCD)
  - Page 108
- Update on imaging aortic stenosis
  - Page 75

### Mobile App Interactive Sessions
- Asymptomatic valvular heart disease
  - Page 72
- Cardiac Imaging Quiz
  - Page 66
- Difficult cases in valvular intervention
  - Page 130
- Don’t we need an additional plane?
  - Page 98

### Moderated Posters
- A little bit of everything
  - Page 132
- Congenital heart disease
  - Page 70
- Deformation imaging
  - Page 46
- Imaging of the right heart - What is new?
  - Page 105
- New advances in cardiovascular magnetic resonance
  - Page 71
- Practical applications of cardiac CT and/or radionuclide imaging
  - Page 105

### Oral Abstract Sessions
- Young Investigator Award session - Basic Science
  - Page 65
- Young Investigator Award session - Clinical Science - The Roelandt’s Young Investigator Award
  - Page 75

### Poster Sessions
- Clinical Case Poster session 1
  - Page 83
- Clinical Case Poster session 2
  - Page 88
- Clinical Case Poster session 3
  - Page 117
- Clinical Case Poster session 4
  - Page 122
- Poster session 1
  - Page 53
- Poster session 2
  - Page 84
- Poster session 3
  - Page 89
- Poster session 4
  - Page 118
- Poster session 5
  - Page 123
- Poster session 6
  - Page 137
Rapid Fire Abstract sessions

- Cardiac imaging with computed tomography and radionuclide techniques: usefulness in miscellaneous patient subsets
  - Page 68
- Congenital heart disease
  - Page 78
- Coronary artery disease: the crucial role of imaging
  - Page 70
- Diastology in health and disease
  - Page 74
- Emerging imaging techniques
  - Page 65
- Great cardiac arteries pathology
  - Page 103
- Multimodality imaging valvular heart disease
  - Page 100

Satellite Symposia

- Clinical Reality for Mitral and Tricuspid Valve Interventions
  - Sponsored by GE Healthcare - Valtech Cardio
  - Page 45
- Echocardiography 2016 - Is it still acceptable to not use contrast and accept suboptimal, non-diagnostic images?
  - Sponsored by Bracco
  - Page 69
- Improvement of cardiac efficiency with ivabradine based on imaging modalities
  - Sponsored by SERVIER
  - Page 104
- New approach for advance cardiac function: new assessments of myocardial function and cardiac flow
  - Sponsored by Toshiba Medical Systems
  - Page 69
- What’s new in peri-operative and peri-interventional Live 3D TEE, cardio-oncology and fusion imaging
  - Sponsored by Philips
  - Page 69

Special Events

- EACVI General Assembly
  - Page 65
- Inaugural session
  - Page 48

Special Sessions

- Asymptomatic valvular heart disease
  - Page 72
- Cardiac Imaging Quiz
  - Page 66
- Don’t we need an additional plane?
  - Page 98
- Echo@Jeopardy
  - Page 111
- EuroEcho-Imaging 2016 highlights
  - Page 133
- Innovation I
  - Page 100
- Live session - Vertigo
  - Page 101
- The research in imaging in the world- EuroEcho-Imaging Lecture
  - Page 107

Symposium

- 3D inside the cath lab
  - Page 101
- Aortic coarctation: multimodality assessment and follow-up
  - Page 107
- Cardiac resynchronisation update
  - Page 62
- Citizen Strain
  - Page 109
- Dangerous liaison: imaging in cardio-renal disease
  - Page 73
- Do the right thing: Imaging the right ventricle
  - Page 64
- Imaging in unclassified cardiomyopathies
  - Page 130
- Imaging restrictive cardiomyopathy
  - Page 64
- Is advanced non-invasive imaging a cost-effective approach in patients with Ischaemic Heart Disease (IHD)?
  - Page 67
- Ischaemic heart disease and the role of multi-imaging modalities
  - Page 134
- Mitral stenosis
  - Page 67
- Multimodality cardiac imaging trials in coronary artery disease: viewpoints “across the Ocean”
  - Page 131
### Symposium (continued)

- New frontiers in congenital heart imaging .................................................. Page 73
- Pericardial disease ......................................................................................... Page 133
- Singing in the strain ....................................................................................... Page 106
- Stress imaging in congenital heart disease .................................................. Page 99
- Tea for two in the operating room ................................................................. Page 109
- That's right ...................................................................................................... Page 76
- The fantastic 4: the 4 best papers of my journal in 2016 ............................... Page 109
- The forgotten regurgitation .......................................................................... Page 133
- The physiologist corner: what you need to know to interpret cardiac imaging Page 107
- The role of myocardial deformation imaging in congenital heart disease .... Page 63
- Time to revalidate patients after valve intervention ...................................... Page 99
- What's new in industry? .............................................................................. Page 77

### Teaching Courses Core Curriculum

- Advanced echo technique I: 3D echo .............................................................. Page 99
- Advanced echo techniques I: cardiac mechanics .......................................... Page 73
- Advanced echo techniques II: miscellaneous ............................................... Page 77
- Basics of 2D cardiac assessment .................................................................. Page 68
- Basics of cardiac ultrasound ....................................................................... Page 64
- Cardiac Masses and source of embolism ...................................................... Page 134
- Disease of the aorta ...................................................................................... Page 131
- Transposition of the great arteries: a multimodality approach .................... Page 110
- Valvular Heart Disease 1 ............................................................................ Page 102
- Valvular Heart Disease 2 ............................................................................ Page 107

### Teaching Courses

- Advanced ....................................................................................................... Page 43
- Advanced cardiovascular magnetic resonance indications ......................... Page 42
- Aortic stenos ...
Learn from imaging experts

E-learning programmes in Echocardiography and in Cardiovascular Magnetic Resonance

Including didactic video tutorials in TOE, TTE, CMR and much more

www.escardio.org/e-learning-echo
www.escardio.org/e-learning-cmr
The European Association of Cardiovascular Imaging (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

<table>
<thead>
<tr>
<th>Cardiovascular Magnetic Resonance (CMR) Section</th>
<th>Echocardiography Section</th>
<th>Nuclear Cardiology and Cardiac CT (NC &amp; CCT) Section</th>
</tr>
</thead>
</table>

### EACVI Committees

<table>
<thead>
<tr>
<th>Education</th>
<th>Web &amp; Communication</th>
<th>Research &amp; Innovation</th>
<th>Accreditation &amp; Certification</th>
<th>International Communities</th>
<th>Membership</th>
<th>Congress Programme</th>
<th>Industry Round Table</th>
<th>Scientific Documents</th>
<th>Heart Imagers of Tomorrow</th>
</tr>
</thead>
</table>
I'm an EACVI member. We are the ESC

www.escardio.org/EACVI
The EACVI is a vibrant community of over 8 000 members from all over the world

Conferences 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.

The Scientific Documents Committee has developed the EACVI abridged recommendations containing the main messages from scientific documents in a concise format for a practical daily use. Titles available in English, Portuguese, French, Spanish, Chinese, Japanese and Turkish.

Order your copies through your my ESC Account or visit the EACVI shop at the EACVI stand.

A free mobile app is also at your disposal:
download for free the EACVI Recommendations App.
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.
The e-learning programmes include didactic tutorials created by leading experts in the fields in TTE, TOE and CMR.

www.escardio.org/learnEACVI
www.escardio.org/e-learning-echo
www.escardio.org/e-learning-cmr

• Distance learning
Make the most of the EACVI distance learning material.
• 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.
Want to learn more about our educational products, publications and our membership programme?

Special offer until 10 December: Silver Membership for only 100€!*

... see you at the EACVI stand

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

www.escardio.org/EACVI
Visit the EACVI stand
The team will be pleased to answer any of your question.

Membership area
Learn more about the 2017 membership programme and join.
Joining the Association gives you exclusive access to resources, products and discounts.

Special discount on the Silver membership level.
Exclusively for EuroEcho-Imaging paying delegates, until 10 December 2016. Not applicable to day ticket holders.

EACVI shop
Get your EACVI publications copies:
• Echocardiography Textbook - Second edition
• Echo Handbook
• 2017 Compendium
• Abridged recommendations
• CMR pocket guides
• Scientific posters

Photobooth
Take a selfie in the photobooth and share your congress memories.

Have a break in the Members’ Lounge
Restricted to 2016 and 2017 members.
Meet with colleagues, read emails or simply enjoy a cup of coffee in your exclusive area.

The lounge is located on the 1st 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
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.
Books
• Textbook on Echocardiography - Second edition
• 2017 Compendium: including most of the scientific papers published by the EACVI in 2015 and 2016
• Echo Handbook

Abridged Recommendations
• Aortic & Pulmonary Regurgitation
• Mitral & Transcusp 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

Scientific & Illustrated Posters
- Diastolic function
- 3D Echo
- Valve Stenosis
Get certified by the EACVI

EACVI certification provides formal European recognition to individuals

Over 2 000 professionals already certified in TTE, TOE, CHD and CMR

www.escardio.org/EACVI
Wednesday Sessions
**Course on Congenital Heart Disease (CHD)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td><strong>Right ventricle in congenital heart disease</strong></td>
</tr>
<tr>
<td></td>
<td>Chairpersons: W. Budts (Leuven, BE); O. Miller (London, GB)</td>
</tr>
<tr>
<td>09:00</td>
<td>Embryology, anatomy, pathology of normal and variations. 1</td>
</tr>
<tr>
<td></td>
<td>M.R.M. Jongbloed (Leiden, NL)</td>
</tr>
<tr>
<td>09:22</td>
<td>Imaging of the Right ventricle: which modality is best? K. Pushparajah (London, GB)</td>
</tr>
<tr>
<td>09:45</td>
<td>Functional assessment of the RV in congenital heart disease. 3</td>
</tr>
<tr>
<td></td>
<td>M.K. Friedberg (Toronto, CA)</td>
</tr>
<tr>
<td>10:07</td>
<td>3D echo of the right ventricular in congenital heart disease: current status? 4</td>
</tr>
<tr>
<td></td>
<td>J. Simpson (London, GB)</td>
</tr>
<tr>
<td>11:00</td>
<td><strong>Malpositions and discordant connections</strong></td>
</tr>
<tr>
<td></td>
<td>Chairpersons: H. Grotenhuis (Utrecht, NL); J. Vletter-McGhie (Schipruiden, NL)</td>
</tr>
<tr>
<td>11:00</td>
<td>Embryology, anatomy, anatomy-pathology: AV and VA connections. 42</td>
</tr>
<tr>
<td></td>
<td>M.R.M. Jongbloed (Leiden, NL)</td>
</tr>
<tr>
<td>11:22</td>
<td>Transposition of the great arteries: pre op and post op imaging. 43</td>
</tr>
<tr>
<td></td>
<td>X. Inart (Pessac, FR)</td>
</tr>
<tr>
<td>11:45</td>
<td>AV &amp; VA discordance (Congenitally Corrected Transposition): optimal imaging strategy? 44</td>
</tr>
<tr>
<td></td>
<td>L. Mertens (Toronto, CA)</td>
</tr>
<tr>
<td>12:07</td>
<td>Double outlet right ventricle: optimal imaging strategy? 45</td>
</tr>
<tr>
<td></td>
<td>J. Simpson (London, GB)</td>
</tr>
<tr>
<td>14:00</td>
<td><strong>The atrial septum</strong></td>
</tr>
<tr>
<td></td>
<td>Chairpersons: A. Van Den Bosch (Rotterdam, NL); L. Mertens (Toronto, CA)</td>
</tr>
<tr>
<td>14:00</td>
<td>Embryology &amp; Anatomy. 104</td>
</tr>
<tr>
<td></td>
<td>M.R.M. Jongbloed (Leiden, NL)</td>
</tr>
<tr>
<td>14:22</td>
<td>Imaging an ASD in adults and children, something old, something new. 105</td>
</tr>
<tr>
<td></td>
<td>J. Vletter-McGhie (Schipruiden, NL)</td>
</tr>
<tr>
<td>14:45</td>
<td>Transsthoracic versus Transoesophageal Echo for ASD: indications, minimum data set and practical tips. 106</td>
</tr>
<tr>
<td></td>
<td>A. Savis (To Be Confirmed, GB)</td>
</tr>
<tr>
<td>15:07</td>
<td>Procedural imaging of ASD interventions: opening, closing and something in between. 107</td>
</tr>
<tr>
<td></td>
<td>T. Bharucha (Southampton, GB)</td>
</tr>
</tbody>
</table>
## Course on Cardiac Resynchronisation Therapy (CRT)

### Identifying the cardiac substrate for cardiac resynchronisation therapy

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>How can imaging add to the ECG in CRT?</td>
<td>N. Risum (Koebenhavn V, DK)</td>
</tr>
<tr>
<td>09:22</td>
<td>Left ventricular dyssynchrony in non-left bundle branch block.</td>
<td>J. Lumens (Maastricht, NL)</td>
</tr>
<tr>
<td>09:45</td>
<td>Role of cardiac magnetic resonance.</td>
<td>N. Ajmone Marsan (Leiden, NL)</td>
</tr>
<tr>
<td>10:07</td>
<td>New concepts of CRT response and non-response.</td>
<td>J. Gorcsan (Pittsburgh, US)</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>11:00</td>
<td>Why cardiac imaging is not included in guidelines?</td>
<td>R.A. Grimm (Cleveland, US)</td>
</tr>
<tr>
<td>11:22</td>
<td>How can imaging left ventricular dyssynchrony help clinically.</td>
<td>J.U. Voigt (Leuven, BE)</td>
</tr>
<tr>
<td>11:45</td>
<td>Imaging to guide lead placement for CRT and other benefits.</td>
<td>F. Alpendurada (London, GB)</td>
</tr>
<tr>
<td>12:07</td>
<td>Unmet clinical needs: how can imaging help!</td>
<td>V. Delgado (Leiden, NL)</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
<th>Speaker</th>
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</thead>
<tbody>
<tr>
<td>14:00</td>
<td>How to define response to CRT: role of imaging</td>
<td>O.A. Smiseth (Oslo, NO)</td>
</tr>
<tr>
<td>14:22</td>
<td>When to do AV and VV optimisation: what is the evidence?</td>
<td>N. Van De Veire (Gent, BE)</td>
</tr>
<tr>
<td>14:45</td>
<td>Mitral regurgitation after CRT: significance and next steps.</td>
<td>N. Ajmone Marsan (Leiden, NL)</td>
</tr>
<tr>
<td>15:07</td>
<td>Can imaging assist new CRT approaches?</td>
<td>B. Bijnens (Barcelona, ES)</td>
</tr>
</tbody>
</table>
Course on three-dimensional echocardiography: from the basics to the future

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 (Schipluiden, 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 Bruaene (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. Addeta (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. To be announced 115
## Course on Imaging and Anaestesiology

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

### 09:00 - 10:30

#### Thoracic aorta and pericardium

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>Modified TEE evaluation: effect on patient outcome</td>
<td>A.P. Nierich (Hattem, NL)</td>
</tr>
<tr>
<td>09:22</td>
<td>Aortic Dissection: how helpful is TEE?</td>
<td>J. van der Maaten (Onnen, NL)</td>
</tr>
<tr>
<td>09:45</td>
<td>Monitoring of pericardiocentesis and other procedures.</td>
<td>B. Cosyns (Brussels, BE)</td>
</tr>
<tr>
<td>10:07</td>
<td>Constrictive pericarditis and surgery.</td>
<td>J.K. Oh (Rochester, US)</td>
</tr>
</tbody>
</table>

### 11:00 - 12:30

#### Ventricle and more.

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00</td>
<td>Ventricular systolic function</td>
<td>C.M. Mukherjee (Karlsruhe, DE)</td>
</tr>
<tr>
<td>11:22</td>
<td>Diastolic dysfunction.</td>
<td>F. Guarracone (Pisa, IT)</td>
</tr>
<tr>
<td>11:45</td>
<td>TEE assistance for assist device.</td>
<td>S. Bouchez (Ghent, BE)</td>
</tr>
<tr>
<td>12:07</td>
<td>HOCM: an intraoperative challenge.</td>
<td>G. La Canna (Rodengo Saiano, IT)</td>
</tr>
</tbody>
</table>

### 14:00 - 15:30

#### Myocardial imaging and cardiac source of embolism

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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</thead>
<tbody>
<tr>
<td>14:00</td>
<td>Myocardial imaging: how helpful in OR setting?</td>
<td>P.F. Wouters (Gent, BE)</td>
</tr>
<tr>
<td>14:22</td>
<td>Masses and tumors.</td>
<td>J. Ender (Leipzig, DE)</td>
</tr>
<tr>
<td>14:45</td>
<td>Atrial fibrillation (general – cardioversion- new procedures).</td>
<td>M. Pepi (Milan, IT)</td>
</tr>
<tr>
<td>15:07</td>
<td>Endocarditis.</td>
<td>J.M. Erb (Weil Am Rhein, DE)</td>
</tr>
</tbody>
</table>
### Course on Valvular Heart Disease

**BRAHMS**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Chairpersons</th>
<th>Location</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td><strong>Aortic stenosis</strong></td>
<td>J. Bergler-Klein (Vienna, AT); J. Mascherbauer (Vienna, AT)</td>
<td>Vienna, AT</td>
<td>17, 18, 19, 20</td>
</tr>
<tr>
<td>09:00</td>
<td>Anatomy of the aortic valve and root.</td>
<td>F.F. Faletra (Lugano, CH)</td>
<td>Lugano, CH</td>
<td>17</td>
</tr>
<tr>
<td>09:45</td>
<td>Assessment of severity.</td>
<td>P. Pibarot (Quebec, CA)</td>
<td>Quebec, CA</td>
<td>19</td>
</tr>
<tr>
<td>10:07</td>
<td>Surgery and percutaneous alternatives.</td>
<td>T. Modine (Lille, FR)</td>
<td>Lille, FR</td>
<td>20</td>
</tr>
<tr>
<td>11:00</td>
<td><strong>Mitral regurgitation</strong></td>
<td>P. Lancellotti (Liege, BE); R.E. Dulgheru (Liege, BE)</td>
<td>Liege, BE</td>
<td>58, 59, 60, 61</td>
</tr>
<tr>
<td>11:00</td>
<td>Anatomy of the mitral valve and sub-valve apparatus.</td>
<td>A.J. Berrebi (Issy Les Moulineaux, FR)</td>
<td>Issy Les Moulineaux, FR</td>
<td>58</td>
</tr>
<tr>
<td>11:22</td>
<td>Pathophysiology and natural history.</td>
<td>J. Magne (Limoges, FR)</td>
<td>Limoges, FR</td>
<td>59</td>
</tr>
<tr>
<td>11:45</td>
<td>Assessment of severity.</td>
<td>M.J. Monaghan (London, GB)</td>
<td>London, GB</td>
<td>60</td>
</tr>
<tr>
<td>12:07</td>
<td>Surgery and percutaneous alternatives.</td>
<td>T. Modine (Lille, FR)</td>
<td>Lille, FR</td>
<td>61</td>
</tr>
<tr>
<td>14:00</td>
<td><strong>Infective endocarditis</strong></td>
<td>O. Wendler (London, GB); E. Plonska-Gosciniak (Szczecin, PL)</td>
<td>London, GB</td>
<td>120, 121, 122, 123</td>
</tr>
<tr>
<td>14:00</td>
<td>Epidemiology and microbiology.</td>
<td>B. Lung (Paris, FR)</td>
<td>Paris, FR</td>
<td>120</td>
</tr>
<tr>
<td>14:22</td>
<td>Diagnosis.</td>
<td>I. Vilacosta (Madrid, ES)</td>
<td>Madrid, ES</td>
<td>121</td>
</tr>
<tr>
<td>14:45</td>
<td>Complications.</td>
<td>C. Selton-Suty (Nancy, FR)</td>
<td>Nancy, FR</td>
<td>122</td>
</tr>
</tbody>
</table>
Wednesday 7 December 2016 - Teaching Courses

Course for modern transcatheter heart valve interventions

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. W. Fehske (Niederkassel, DE) 21

09:22 Periprocedural guiding by echocardiography and detection of complications. F. Kreidel (Hamburg, DE) 22

09:45 Diagnostic of paravalvular leakages in TVAR. V. Rudolph (Cologne, DE) 23

10:07 Multivalvular diseases in TAVI patients: how to diagnose and when to treat? 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. A. Hagendorff (Leipzig, DE) 62

11:22 New diagnostic and therapeutical approaches to the mitral valve: when to treat the annulus? When to treat the leaflets? R.S. Von Bardeleben (Mainz, DE) 63

11:45 Controversies in grading mitral valve regurgitation severity: new guidelines and new diagnostic options. B.P. Plicht (Dortmund, DE) 64

12:07 Follow-up after mitral tmvr: how to evaluate acute and long-term therapeutical effects in TMVR? How to evaluate mitral valve deformation and potential left ventricular reverse remodelling in follow-up investigations? R.S. Von Bardeleben (Mainz, DE) 65

14:00 - 15:30

Guiding and evaluation of specialties 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. N.C. Wunderlich (Darmstadt, DE) 124

14:22 Guiding during pvl procedures: how to evaluate success? When does a closure cause deterioration of the patient’s condition? 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? 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. 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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00</td>
<td>Magnetic resonance physics made easy.</td>
<td>D. Messroghli (Berlin, DE)</td>
<td></td>
</tr>
<tr>
<td>09:22</td>
<td>Cardiac magnetic resonance versus echo examinations: what is similar, what is different?</td>
<td>A.M.G. Almeida (Lisbon, PT)</td>
<td></td>
</tr>
<tr>
<td>09:45</td>
<td>Overview of clinical CMR methods: morphology, function and more.</td>
<td>M. Gutberlet (Leipzig, DE)</td>
<td></td>
</tr>
<tr>
<td>10:07</td>
<td>Safety of cardiovascular magnetic resonance.</td>
<td>M. Lombardi (San Donato Milanese, IT)</td>
<td></td>
</tr>
</tbody>
</table>

### Common cardiovascular magnetic resonance indications

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

<table>
<thead>
<tr>
<th>Time</th>
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<th>Location</th>
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</thead>
<tbody>
<tr>
<td>11:00</td>
<td>Cardiovascular magnetic resonance for heart failure assessment.</td>
<td>R. Nijveldt (Amsterdam, NL)</td>
<td></td>
</tr>
<tr>
<td>11:22</td>
<td>Cardiovascular magnetic resonance for ischaemia assessment in stable IHD.</td>
<td>R.M. Manka (Zurich, CH)</td>
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</tr>
<tr>
<td>11:45</td>
<td>Cardiovascular magnetic resonance in acute coronary syndromes.</td>
<td>I. Eitel (Luebeck, DE)</td>
<td></td>
</tr>
<tr>
<td>12:07</td>
<td>Cardiovascular magnetic resonance in cardiomyopathy.</td>
<td>G.P. McCann (Leicester, GB)</td>
<td></td>
</tr>
</tbody>
</table>

### Advanced cardiovascular magnetic resonance indications

Chairpersons: B. Herzog (Lucerne, CH); E.R. Valsangiacomому Buchel (Zurich, CH)

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<tbody>
<tr>
<td>14:00</td>
<td>T1 mapping: methods and indications.</td>
<td>D. Messroghli (Berlin, DE)</td>
<td></td>
</tr>
<tr>
<td>14:22</td>
<td>Cardiovascular magnetic resonance in congenital heart disease.</td>
<td>O. Tann (London, GB)</td>
<td></td>
</tr>
<tr>
<td>14:45</td>
<td>Cardiovascular magnetic resonance for valve assessment.</td>
<td>G.P. McCann (Leicester, GB)</td>
<td></td>
</tr>
<tr>
<td>15:07</td>
<td>Tumours, pericardium and rare diseases.</td>
<td>T. Sykora (Tulin, AT)</td>
<td></td>
</tr>
</tbody>
</table>
## Course on Computed Tomography

### Basics coronary

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Principles of cardiac CT: from photons to pictures.</td>
<td>F. Pugliese (London, GB)</td>
<td>29</td>
</tr>
<tr>
<td>09:15</td>
<td>Scan protocols: optimal quality, minimal dose.</td>
<td>M. Marwan (Erlangen, DE)</td>
<td>30</td>
</tr>
<tr>
<td>09:45</td>
<td>Coronary calcium score and Computed Tomography angiography: the evidence</td>
<td>K. Nieman (Stanford, US)</td>
<td>31</td>
</tr>
<tr>
<td>10:15</td>
<td>Structural heart disease: beyond the coronary arteries</td>
<td>A. Rossi (Rotterdam, NL)</td>
<td>32</td>
</tr>
</tbody>
</table>

### Advanced

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

<table>
<thead>
<tr>
<th>Time</th>
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</tr>
</thead>
<tbody>
<tr>
<td>11:00</td>
<td>Advanced coronary disease</td>
<td>K. Nieman (Stanford, US)</td>
<td>70</td>
</tr>
<tr>
<td>11:15</td>
<td>Functional cardiac Computed Tomography applications</td>
<td>F. Pugliese (London, GB)</td>
<td>71</td>
</tr>
<tr>
<td>11:45</td>
<td>CT guided interventions: TAVI and beyond</td>
<td>M. Marwan (Erlangen, DE)</td>
<td>72</td>
</tr>
<tr>
<td>12:15</td>
<td>Integrated imaging of atherosclerosis and ischaemia</td>
<td>P. Maurovich-Horvat (Budapest, HU)</td>
<td>73</td>
</tr>
</tbody>
</table>

### Cases based applications

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

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<tbody>
<tr>
<td>14:00</td>
<td>Cardiac CT in acute cardiovascular situations</td>
<td>K. Nieman (Stanford, US)</td>
<td>132</td>
</tr>
<tr>
<td>14:30</td>
<td>Structural heart disease</td>
<td>P. Maurovich-Horvat (Budapest, HU)</td>
<td>133</td>
</tr>
<tr>
<td>14:50</td>
<td>Congenital conditions in kids and grown-ups</td>
<td>K. Nieman (Stanford, US)</td>
<td>134</td>
</tr>
<tr>
<td>15:10</td>
<td>Hybrid imaging</td>
<td>O. Gaemperli (Zurich, CH)</td>
<td>135</td>
</tr>
</tbody>
</table>
### 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:** 37  
M.A. Clavel (Quebec, CA)

---

**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:** 38  
A. Stefanidis (Athens, GR); O. Tufekcioglu (Ankara, TR)

10:30  
**Diagnostic difficulties of a vasculitis caused by uncommon cardiovascular manifestation** 39  
B. Illes (Szeged, HU)

10:40  
**Pericardial mass in a post-surgery mitral endocarditis patient** 40  
A. Marques (Braga, PT)

10:50  
**Focal constrictive pericarditis: multimodality imaging.** 41  
M.M. Martinez Quesada (Seville, ES)
Wednesday 7 December 2016 - Lunchtime Sessions

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 24 months’ results and clinical studies update - 100 patients: lessons learned. 78
V. Rudolph (Cologne, DE)

13:05 Recorded Live Demonstration – minimal invasive "annuloplasty band procedure". 79
R.S. Von Bardeleben (Mainz, DE)

13:25 Echo Guidance: following the anatomy and physiology. 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 Panel of experts: 81
K. Yiangou (Nicosia, CY); A.M.G. Almeida (Lisbon, PT)

12:45 A case of right atrial diverticulum initially diagnosed in 58 years old female patient. 82
A. Savelev (St-Petersburg, RU)

12:55 Unusual cardiac mass 83
R. Moscicki (El Campello, ES)

13:05 A very rare cardiac mass in the right atrium 84
R. Mata Caballero (Getafe, ES)

13:15 A rare cause of syncope: intravenous leiomyomatosis with cardiac extension 85
J. Jacobs (Hoboken, BE)

13:25 Left ventricular myxoma - a rare finding 86
O.A. Popa (Bucharest, RO)

13:35 Mediastinal masses and a left atrial tumor: are they related? - the role of multimodal imaging in the diagnosis and the management of the patient 87
R. Siliste (Bucharest, RO)
### Wednesday 7 December 2016 - Afternoon Sessions

**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.

<table>
<thead>
<tr>
<th>Contribution of LV dilatation and left bundle branch block to functional mitral regurgitation in DCM hearts</th>
<th>P88</th>
</tr>
</thead>
<tbody>
<tr>
<td>J. Duchenne, S. Bezy, P. Claus, E. Pagourelias, O. Gheysens, F. Rega, J.U. Voigt (Leuven, BE)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Can we predict improvement of secondary mitral regurgitation after CRT?</th>
<th>P89</th>
</tr>
</thead>
<tbody>
<tr>
<td>B.W. Michalski, I. Stankovic, E. Pagourelias, L. Faber, A. Carka, M. Aarones, S. Winter, S. Aakhus, W. Fehske, J.U. Voigt (Leuven, BE; Belgrade, RS; Bad Oeynhausen and Cologne, DE; Oslo, NO)</td>
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<tr>
<th>Dual-energy computed tomography myocardial perfusion to detect coronary artery disease and predict need of revascularization</th>
<th>P90</th>
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<tr>
<th>Prognostic role of ventricular-arterial coupling after cardiac surgery</th>
<th>P91</th>
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<tr>
<td>F. Blanco, V. Bucciarelli, F. Ricci, R. Aquilani, G.G. Di Pace, E. Miniera, R. De Caterina, S. Gallina (Chieti, IT)</td>
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<tr>
<th>How accurate can different strain analysis tools detect regional function abnormalities, a report from the second inter-vendor comparison study</th>
<th>P96</th>
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<td>O. Mirea, E.D. Pagourelias, J. Duchenne, J. Bogaert, J.D. Thomas, L.P. Badano, J.U. Voigt (Leuven, BE; Chicago, US; Padua, IT)</td>
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<th>Variability and reproducibility of segmental longitudinal strain measurements, a report form the second intervendor comparison study</th>
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<th>Systolic and diastolic left atrial deformation parameters before and after optimization of dual chamber pacemaker parameters</th>
<th>P98</th>
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<tr>
<td>A. Karuzas, M. Viezelis, M. Zemaitis, E. Rumbinaite, K. Baronaite-Dudoniene, A. Puodziukynas, J.J. Vaskelyte (Kaunas, LT)</td>
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<tr>
<th>The timing of the post systolic shortening in prediction of scarred myocardium</th>
<th>P99</th>
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<tr>
<td>E. Nestaas, S. Sarvari, E. Hopp, O. Gjesdal, M.K. Smedsrud, K.H. Haugaa, T. Edwardsen (Oslo, NO)</td>
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<th>Altered contribution of longitudinal and radial motion to right ventricular ejection and filling in heart transplant recipients</th>
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<td>B.K. Lakatos, Z. Toser, M. Tokodi, A. Kosztin, B. Sax, B. Merkely, A. Kovacs (Budapest, HU)</td>
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<th>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</th>
<th>P101</th>
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<tbody>
<tr>
<td>R. Ancona, S. Comenale Pinto, P. Caso, M.G. Coppola, I. Monteforte, R. Calabro (Naples, IT)</td>
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<tr>
<th>Age-related changes in left ventricular strain measured by speckle-tracking echocardiography and association with telomere length in healthy people</th>
<th>P102</th>
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<tr>
<th>Intracardiac speckle tracking echocardiography-based method for assessment of pulmonary vein isolation in patients with atrial fibrillation</th>
<th>P103</th>
</tr>
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<tbody>
<tr>
<td>D. Lebedev, A.V. Smorgon, S.Y.U. Usenkov, E.A. Archakov, R.E. Batalov, S.V. Popov (Tomsk, RU)</td>
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</tr>
</tbody>
</table>

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**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.

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Wednesday 7 December 2016 - Afternoon Sessions

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)

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 Panel of experts:
P. Unger (Brussels, BE); D. Mohty (Limoges, FR)

15:30 A sub-aortic valve mass in a rheumatoid arthritis patient: an unconventional mechanism of aortic regurgitation
L. Marques (Penafiel, PT)

15:40 Symptomatic severe aortic regurgitation with coronary obstruction due to chronic type a dissection
Y. Yoshida (Fuchu-Shi, JP)

15:50 Mitral valve prolapse and ventricular tachycardia: a long-lasting love story
C. Venner (Nancy, FR)
### Inaugural session

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

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

After the session a networking reception will be held in the exhibition area.
Wednesday Posters
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.
E/e'*SV is a better predictor of outcome than E/e in patients with heart failure with preserved left ventricular ejection fraction


Subclinical left atrial and left ventricular structural and functional abnormalities in postmenopausal women with abdominal obesity

A. Borzatova, E. Kinova, A. Goudev (Sofia, BG)

Central obesity and hypertension: double burden to the left atrium of postmenopausal women

A. Borzatova, 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


Paced-induced heart electrical activation modifies the orientation of left ventricular flow momentum: novel insights from echocardiographic particle image velocimetry

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

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

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

R. Arian, A.M. Soeianto (Jakarta, ID)

Evolution of etiologic spectrum and clinical features of mitral regurgitation since 2007 until 2015


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

E. Surkova, J. Bidviena, G. Brunello, F. Veronesi, G. Cavalli, V. Sokalis, 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

M. Kalcik, M. Yesin, E. Bayam, S. Gunduz, M.O. Gursoy, S. Karakoyun, M.A. Astarcigolu, S. Cersit, O. Candan, M. Ozkan (Corum, Istanbul and Ardahan, TR)

Right ventricular dysfunction in patients with hypertrophic cardiomyopathy

A.E. Demkina, N.S. Krylova, N.G. Poteshkina, A.E. Kovallevshka, F.M. Hasheva (Moscow, RU)

Interest of variations of echocardiographic parameters after initiation of specific therapy in the risk stratification of patients with pulmonary hypertension


Comparison of left and right atrial size and function in elite adolescent male football players

J.M. Luszczak, C.A. Williams, A.G. Stuart, G.E. Pieles (Exeter and Bristol, GB)

Do pocket-size imaging devices allow for reliable bedside vascular screening?

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


Effect of perindopril/amlodipine combination on post-exercise E/e' in patients with arterial hypertension

M.Y. Kolesnyk, O.V. Nikitjuk, G.V. Dzyak (Zaporizhzhya and Dnipropetrovsk, UA)

Relationship between pulmonary venous flow and prosthetic mitral valve thrombosis


Mitral valve parameters derived from 3-dimensional transesophageal echocardiography dataset: correlation between qlab and tomtec software

R. Chokesuvattanasakul, S. Satthithummanid, S. Boonyaratavej (Bangkok, TH)

Non-invasive pulmonary transit time: a new parameter for global cardiac performance

A.G.W. De Lepper, I.H.F. Herold, S. Saporito, R.A. Bouwman, M. Mischi, H.H.M. Korsten, K.D. Reesink, P. Houthuizen (Eindhoven and Maastricht, NL)

Assessment of the positive work and mechanical dispersion: new methods to quantify left ventricular function in aortic stenosis

A. Hubert, E. Galli, G. Bouzille, E. Samset, E. Donal (Rennes, FR; Oslo, NO)
HIT Poster session 1 (continued)
EACVI HIT (Heart Imagers of Tomorrow)

Atrial function in Takotsubo cardiomyopathy: deformation analysis

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)

Impact of frailty assessment on myocardial perfusion imaging results: a prospective cohort study
A. Ahmed, M. Al-Mallah (Riyadh, SA)
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Location</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atrial electromechanical delay, Left Atrial mechanical functions and longitudinal left ventricular strain in pre-diabetic patients</td>
<td>T. Moustafa, R. Mahfouz, A. Elzayat, M. Goda, M. Gad (Zagazig, EG)</td>
<td>Cairo</td>
<td>197</td>
</tr>
<tr>
<td>A web-based platform for e-training in echocardiography</td>
<td>R. Conte, F. Sansfone, F. Napoli, A. Tonacci, M. Raciti, P. Landi, A. Grande, L. Ast-Ali (Pisa, IT)</td>
<td>(Pisa, IT)</td>
<td>198</td>
</tr>
<tr>
<td>Righ atrial size as a marker of success in electrical cardioversion in patients with persistent atrial fibrillation</td>
<td>C. Doering, K. Sven, U. Richter, R.H. Strasser, C. Wunderlich (Dresden, DE)</td>
<td>Dresden (DE)</td>
<td>200</td>
</tr>
<tr>
<td>Echocardiographic assessment of left atrial dimensions and function in a healthy population</td>
<td>R.W.J. Van Grootel, M.E. Menting, J.S. Mgehe, M. Strachinaru, W.B. Vletter, M.L. Geijerse, J.W. Roos-Hesselink, A.E. Van Den Bosch (Rotterdam, NL)</td>
<td>(Rotterdam, NL)</td>
<td>201</td>
</tr>
<tr>
<td>Aortic elasticity is impaired in hyperesosinophilic syndrome</td>
<td>A. Nemes, I. Marton, P. Domok, A. Kalapos, E. Posfa, S. Modok, Z. Borbenyi, T. Forster (Szeged, HU)</td>
<td>(Szeged, HU)</td>
<td>203</td>
</tr>
<tr>
<td>Ultrasound guided treatment in acute heart failure</td>
<td>J. Oehman (Turku, FI)</td>
<td>Turku (FI)</td>
<td>205</td>
</tr>
<tr>
<td>Determinants of impaired global longitudinal function in middle-aged subjects free of cardiovascular disease</td>
<td>I. Ceponiene, R. Jurkевичius, J. Petkeviciene, O. Gustiene, E. Tamuleviciute-Prascieni, J. Motiejunaite, R. Stupika (Kaunas, LT)</td>
<td>(Kaunas, LT)</td>
<td>206</td>
</tr>
<tr>
<td>Left ventricular remodeling in asymptomatic heart failure: classification and prognostic evaluation</td>
<td>I. Fabian, N.R. Puglise, S. La Carrubba, F. Antonin Canterin, P. Colonna, P. Case, F. Benedetto, R. Citro, S. Carer, V. Di Bello (Pisa, Palermo, Pordenone, Bari, Naples, Reggio Calabria, Salerno and Messina, IT)</td>
<td>(Pisa, Palermo, Bari, Naples, Reggio Calabria, Salerno and Messina, IT)</td>
<td>207</td>
</tr>
<tr>
<td>Magnetic resonance imaging of abnormal origin of the left coronary artery from the pulmonary artery in children older than 4 months</td>
<td>A.J.R. Jurko, A. Jurko, T. Jurko, J. Mistinova-Polakova (Martin, SK)</td>
<td>Martin (SK)</td>
<td>210</td>
</tr>
<tr>
<td>Coronary flow reserve is improved by LDD lapheresis with familial hypercholesterolemia and chronic Ischaemic heart disease</td>
<td>E. Pasanisi, F. Grana, C. Petersen, F. Bigazzi, B. Dal Pino, M. Coccaci, A. Ripoli, M. Panelli, R. Luciani, T. Sampietro (Pisa, IT)</td>
<td>(Pisa, IT)</td>
<td>211</td>
</tr>
<tr>
<td>High velocities in the proximal part of the coronary arteries during routine echocardiography can predict nearest prognosis</td>
<td>E. Pasanisi, F. Sbrana, C. Petersen, F. Bigazzi, B. Dal Pino, M. Coceani, A. Ripoli, M. Pianelli, R. Luciani, T. Sampietro (Pisa, IT)</td>
<td>(Pisa, IT)</td>
<td>212</td>
</tr>
<tr>
<td>Coronary flow reserve is improved by LDD lapheresis with familial hypercholesterolemia and chronic Ischaemic heart disease</td>
<td>E. Pasanisi, F. Sbrana, C. Petersen, F. Bigazzi, B. Dal Pino, M. Coceani, A. Ripoli, M. Pianelli, R. Luciani, T. Sampietro (Pisa, IT)</td>
<td>(Pisa, IT)</td>
<td>213</td>
</tr>
<tr>
<td>Severe aortic stenosis patients with preserved ejection fraction according to flow and gradient classification: prevalence and outcomes</td>
<td>J.M. Monteagudo Ruiz, A. Gonzalez-Gomez, C. Izuneta, C. Fernandez-Gollnig, A. Marco, G.L. Alonso Salinas, R. Hinojar Baydes, A. Garcia Martin, E. Casas Rojo, J.L. Zamorano (Madrid, ES)</td>
<td>(Madrid, ES)</td>
<td>215</td>
</tr>
<tr>
<td>Is basal left ventricular ejection time able to predict the severity of aortic stenosis in patients with depressed ejection fraction?</td>
<td>A.S. Lazaro Mendes, A.R. Ferreir, J. Moura Ferreira, L. Leite, A.P. Oliveira, N. Ribeiro, A.J. Barbosa, R. Mata Martins, D. Ramos, M. Pego (Coimbra, PT)</td>
<td>(Coimbra, PT)</td>
<td>216</td>
</tr>
<tr>
<td>Acceleration time in aortic stenosis: a new echocardiographic diagnostic parameter</td>
<td>D. Ruiz Fernandez, S. Gamaza Chulian, E. Diaz Retamo, S. Camacho Freire, A. Gutierrez Barrios, J. Oneto Otero (Jerez, ES)</td>
<td>(Jerez, ES)</td>
<td>217</td>
</tr>
<tr>
<td>Application of novel Doppler indices of stenosis severity in the assessment of rheumatic mitral stenosis beyond conventional valve area and transvalvular gradients.</td>
<td>A. Zagatina, N. Zhuravskaya, V. Vareldzhyan, M. Kamperski, D. Shmatov (Saint Petersburg, RU)</td>
<td>(Saint Petersburg, RU)</td>
<td>218</td>
</tr>
<tr>
<td>Speckle-tracking echocardiography in evaluation early left ventricular systolic dysfunction in asymptomatic aortic regurgitation patients with good left ventricular ejection fraction</td>
<td>V. Mizeri, M. Biesevesici, R. Versekarte, P. Jonkaitiene, J. Janenize, R. Jurkeviceus (Kaunas, LT)</td>
<td>(Kaunas, LT)</td>
<td>220</td>
</tr>
</tbody>
</table>
Expansible aortic ring annuloplasty: mid-term results of aortic valve repair
Z. Hubooka, G. Dostalova, J. Hubooky, V. Vondracek, J. Lindner, A. Linhart (Prague, CZ)
P208

Papillary muscle dysfunction: insights into mitral valve prolapse using speckle tracking imaging
L. Ring, N.K. Preston (Bury St Edmunds, GB)
P209

Long-term outcome of primary mitral valve prolapse: results from a population of 250 patients referred to a tertiary cardiovascular center.
V. Mecacci, F. Mori (Florence, IT)
P210

Rheumatic Heart Disease in Uganda - Results from more than 600 echocardiograms in a non-profit hospital
M. Mapelli, L. Fusi, P. Zagni, M. Muratori, P. Agostoni, P. Grippi, S. Ghulam Ali, G. Tamborini, M. Pepi, C. Fiorentini (Milan and Modena, IT)
P211

Higher ventricular ectopy burden in asymptomatic severe Barlow's mitral valve disease compared to similar patients with mitral valve prolapse
P212

Surgical mitral valve repair for severe secondary mitral regurgitation: prognostic implications of left ventricular forward flow
V. Kampenidis, S.E. Van Wijngaarden, P. Van Rosendaal, W. Kong Kok Fat, M. Leung, G. Sianos, N. Ajmone Marsan, J.J. Bax, V. Delgado (Leiden, NL, Thessaloniki, GR)
P213

Multicentre trial results of a transfemoral annuloplasty system for mitral valve reconstruction -
P214

Comparative assessment of paravalvular leaks with 3D-transoesophageal echocardiography and cardiac computed tomography.
M. Alonso Fernandez De Gatta, M. Barreiro Perez, A. Arribas Jimenez, A. Martin Garcia, E. Diaz Pelayo, J. Rodriguez Collado, I. Cruz Gonzalez, P.L. Sanchez Fernandez (Salamanca, ES)
P215

Failing surgical aortic bioprosthetic valves: redo aortic valve surgery versus percutaneous valve-in-valve replacement
P216

Mitral annular calcification and infective endocarditis
P217

Infective endocarditis - a changing disease
M. Coutinho Cruz, R. Ilhao Moreira, L. Moura Branco, A. Galinho, L. Coutinho Miranda, A.T. Timoteo, J. Abreu, P. Pinto Teixeira, J. Fragata, R. Cruz Ferreira (Lisbon, PT)
P218

Staphilococcus aureus bacteremia: application of the ESC proposed diagnostic echocardiographic algorithm in clinical practice
Y. Bartolacelli, A. Barbieri, F. Bursi, F. Mantovani, R. Lugli, M. Fabbri, C. Mussini, G. Boniani (Modena, IT)
P219

ESC proposed diagnostic echocardiographic algorithm in elective patients with clinical suspicion of infective endocarditis and negative blood cultures: diagnostic yield and prognostic implications
Y. Bartolacelli, A. Barbieri, F. Bursi, F. Mantovani, R. Lugli, M. Fabbri, C. Mussini, G. Boniani (Modena, IT)
P220

Three-dimensional transoesophageal echocardiography versus multidetector computed tomography for aortic annulus sizing in TAVI: a worthy alternative.
C. Gillebert, R. Perry, T. Hecker, M. Szpyna, M. Joseph (Adelaide, AU)
P221

Early and mid-term improvement in left ventricular function after transcatheter aortic valve replacement as assessed by myocardial strain imaging
P222

Dynamic of aortic root as predictor of paravalvular regurgitation after transcatheter aortic valve implantation
P223

Cardiomyopathies

Short term effect of heart rate reduction by Ivabradine on left ventricular function and remodeling in systolic heart failure patients
P224

Global longitudinal strain and regional longitudinal strain in patients with hypertrophic cardiomyopathy: are they associated with the presence of myocardial fibrosis?
P225

How many are too many - frequent premature ventricular contractions and left ventricular function
A.C. Gomes, L.R. Lopes, I. Cruz, A.R. Almeida, H. Pereira (Almada, PT)
P226

Three-dimensional transesophageal echocardiography versus multidetector computed tomography for aortic annulus sizing in TAVI: a worthy alternative.
C. Gillebert, R. Perry, T. Hecker, M. Szpyna, M. Joseph (Adelaide, AU)
P227

Early and mid-term improvement in left ventricular function after transcatheter aortic valve replacement as assessed by myocardial strain imaging
P228

Dynamic of aortic root as predictor of paravalvular regurgitation after transcatheter aortic valve implantation
P229

Two-dimensional global longitudinal strain and strain rate for evaluation of inflammatory cardiomyopathy as proven by endomyocardial biopsy
A.S. Aleksandrov, M. Kasner, C. Tschoepe (Berlin, DE)
P230

The echocardiographic features of young asymptomatic screening population with left ventricular hypertrabeculation
P231

Use of amiodipine to decrease myocardial iron in thalassemia major (AMIT trial): comparison of T2* CMR and echocardiography for assessment of cardiac volumes and function.
P232
Echocardiographic comparison of Fabry cardiomyopathy and light-chain amyloid heart disease


Proposal of two new echocardiographic parameters for the differentiation of pre-capillary from post-capillary pulmonary hypertension


Systemic diseases and other conditions

Relation between myocardial deformation by three-dimensional speckle tracking analysis, control of the hypertension and functional capacity in patients with systemic hypertension

I. Craciunescu, G. Badea, G. Ursu, S. Vasile, M. Iancu, M. Bolog, M. Dumitrescu (Bucharest, RO)

Obstructive sleep apnoea is often under-recognised in patients with acute myocardial infarction, but commonly contributes to left ventricular diastolic dysfunction

N. Ngam, B. Tan, A. Ambhore, R. Lee, K.K. Poh (Singapore, SG)

Intrinsic left ventricular dysfunction in Behcet disease in comparison with systemic disease activity: insights from speckle tracking echocardiography


The coincidence of implanted metal and number of electrodes with the presence of residual fibrotic tissue after transvenous lead extraction assessed in echocardiographic exam


Hemoglobin is an independent predictor of left ventricular hypertrophy in postmenopausal women but not in premenopausal women.


Left ventricular longitudinal deformation impairment in patients with psoriasis is linked with immunologic activation


Impaired diastolic functions and left atrial mechanical functions in patients with vitamin-D deficiency

Y. Hacigotlu, T. Karabag, M.E. Piskinpasa, F. Sametoglu, Y. Yuksel (Istanbul, TR)

Modification of cardiac and vascular function secondary to insulin resistance


Congenital heart disease

Impaired right ventricular function is not related to serum galectin-3 concentration in patients with repaired tetralogy of fallot


Age-adjusted indices of right ventricular (RV) longitudinal function do not adequately reflect the global RV function in children with repaired congenital heart defects and RV volume overload

T. Hayashi, N. Shimizu, Y. Misaki, H. Ono (Okayama, JP)

Stress echo

Controlled observational study on the negative predictive value of nuclear testing vs. stress echo in pre-operative assessment for patients undergoing solid organ transplantation

M.M. Alqaseer, S. Alghamdi, O. Bahamdi, E. Alfari, M.M. Khorasani, U. Ismail, B. Muzhannen, V.J. Nambar (Dammam, SA)

The detection of viable myocardium by dobutamine stress speckle tracking echocardiography in patients with coronary artery disease

V. Usenko, O.V. Tereshina, E.N. Rabova, E.A. Medvedeva (Samarra, RU)

VO2 flattening during exercise in heart failure: evidence for a combined low cardiac output and inefficient O2 extraction

G. Generati, F. Bandera, E. Alfonzetti, M. Guazzi (San Donato Milanese, IT)

The dynamic assessment of alveolar-capillary barrier during exercise-echocardiography in heart failure patients with reduced ejection fraction

M.C. Scal, L. Cortigiani, M. De Nesi, M. Marzilli, E. Picano (Pisa and Lucca, IT)

The effect of exercise training on cardiac function during exercise stress echo in patients with type 2 diabetes and diastolic dysfunction

M.C. Scali, L. Cortigiani, M. De Nes, M. Marzilli, E. Picano (Pisa and Lucca, IT)

Age-related maximal exercise O2 extraction differences in a population of apparently healthy subjects at cardiovascular risk

G. Generati, F. Bandera, E. Alfonzetti, M. Guazzi (San Donato Milanese, IT)

Difference in the changes of functional mitral regurgitation between semisupine ergometer and handgrip exercise

M. Toki, N. Kajiyama, A. Hayashida, K. Yoshida (Okayama, JP)

Transesophageal echocardiography

Correlation of annulus size assessed by echo 2d, 3d and multidetector computed tomography in patients undergoing transcatheter aortic valve implantation


Mitral annulus dynamics: from normal to extensive mixomatous disease-a three-dimensional transesophageal study

M.M. Gurzun, M. Rosca, A. Calin, C. Beladan, A. Mateescu, R. Enache, M. Serban, C. Ginghina, B.A. Popescu (Bucharest, RO)
Left atrial appendage closure: an echo point of view of 55 cases.  
P.257  
L. Lanzoni, G. Molon, G. Canali, S. Bonapace, A. Chiampai, A. Cecchetto, F. Gottardi, E. Barbieri (Negrar-Verona, IT)

**Tissue Doppler and speckle tracking**

Effect of catheter-based renal denervation on left ventricular function, mass and (un)twist with two-dimensional speckle tracking echocardiography  
P.258  
L. Feyz, B. Van Dalen, M.L. Geleijnse, N.M. Van Mieghem, R.T. Van Domburg, J. Daemen (Rotterdam, NL)

Associations of microRNAs gene expression in peripheral blood mononuclear cells and left ventricular global longitudinal peak strain in patients with essential hypertension  
P.259  

Right cardiac chambers remodeling in marathon and ultra-trail athletes detected by speckle-tracking echocardiography  
P.260  

Speckle tracking determination of tissue motion annular displacement: comparison with strain and ejection fraction, and association with outcomes in haemodialysis patients  
P.261  
D.Y.Y. Chiu, P.A. Kaila, D. Green, H. Suna, N. Abidin (Manchester, GB)

Value of right ventricular 2D-speckle tracking parameters in predicting the TIMI flow grade of the RCA in patients with acute RV infarction  
P.262  
H. Tayel (Menoufiya, EG)

The correlation between left atrial deformation indices and the CHA2DS2-VASc risk score in patients with atrial fibrillation  
P.263  
S. Mostafa, S. Sabry, S. Mostafa, H. Mohamed, H. Aboeleinen (Benha, EG)

Right atrial and ventricular function evaluated with speckle tracking in patients with acute pulmonary embolism  
P.264  

Enhanced accuracy of a speckle tracking strain based artificial intelligence model to differentiate ischaemic myocardial disease and cardiomyopathy  
P.265  
J.L. Walsh, N. Lamia, G. Eakr, O.K. Abou Hassan, K. Jalkh, W. Al Jaroudi, H. Ismaeel (Beirut, LB)

Detection of early left ventricular and left atrial dysfunction in type I diabetes mellitus using 2D speckle tracking echocardiography  
P.266  
M. Hassan, T. Abd Alrahman, A. Mzzen, S.H. Hegazy (Cairo, EG)

Two-dimensional left ventricular global longitudinal strain dynamics after percutaneous coronary intervention in stable single-vessel coronary artery disease patients  
P.267  
E.Y. Pavlyukova, N.N. Gladikh, R. Klein, R.S. Karpov (Tomsk, RU)

Left ventricular twist, torsion and strain in the fetus by 3D echocardiography: feasibility and comparisons with 2D  
P.268  

Left atrial deformation analysis in acromegaly - a three-dimensional speckle-tracking echocardiographic study  
P.269  

Impact of hemodialysis on three-dimensional left ventricular myocardial deformation in end-stage renal disease: relationships with preload reduction  
P.270  
R. Sorrentino, C. Santoro, R. Esposito, E. Pezzullo, A. Buonauro, V. Schiano-Lomoriello, S. Cocozza, A. Vaccaro, B. Trimarco, M. Gallersi (Naples, IT)

Right atrial function in noncompaction cardiomyopathy - a three-dimensional speckle-tracking echocardiographic study  
P.271  
A. Nemes, P. Domik, A. Kalaposs, M. Oszlanczi, T. Forster (Szeged, HU)

**Computed Tomography and Nuclear Cardiology**

CABG failure in the era of cardiac computed tomography - after 8 years half the patients have at least one graft affected  
P.272  
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Thursday Sessions
Sponsored by GE Healthcare - Abbott

Objectives:
- Percutaneous Mitral Valve Repair therapy and patient screening overview.
- Hands-on tutorials with Echo Workstation: TTE/TEE screening.

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)**

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00 - 10:30</td>
<td>EACVI HIT workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners</td>
</tr>
<tr>
<td>Presenters:</td>
<td>D. Muraru (Padua, IT); M.M. Gurzun (Bucharest, RO); S. Wright (London, GB)</td>
</tr>
<tr>
<td>11:00 - 12:30</td>
<td>EACVI HIT workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners</td>
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<tr>
<td>Presenters:</td>
<td>I. Simova (Sofia, BG); N. Padmanaban (Abudhabi, AE); A. Smith (Barnet, GB)</td>
</tr>
<tr>
<td>14:00 - 15:30</td>
<td>EACVI HIT workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners</td>
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<tr>
<td>Presenters:</td>
<td>M. Cameli (Certaldo, IT); C. Cirillo (Napoli, IT); B. Martin (London, GB)</td>
</tr>
<tr>
<td>16:00 - 17:30</td>
<td>EACVI HIT workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners</td>
</tr>
<tr>
<td>Presenters:</td>
<td>C. Cirillo (Napoli, IT); F. Flachskampf (Uppsala, SE); S. Giannaris (London, GB)</td>
</tr>
</tbody>
</table>
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.

14:00 - 15:30

**Pulmonary Hypertension – Comprehensive evaluation of the Right Ventricle**

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16:00 - 17:30

**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.
Thursday 8 December 2016 - Morning Sessions

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)

- **08:30**
  - In athletes.
  - A. La Gerche (Melbourne, AU)

- **08:52**
  - In hypertrophic cardiomyopathy.
  - S. Nagueh (Houston, US)

- **09:15**
  - In valvular heart disease.
  - I.A. Sebag (Montreal, CA)

- **09:37**
  - In ischaemic cardiomyopathy.
  - 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)

- **08:30**
  - Critical appraisal of the EVEREST criteria for Mitraclip.
  - M.J. Swaans (Hedel, NL)

- **08:52**
  - Imaging work-up during transcatheter mitral valve intervention.
  - R.S. Von Bardeleben (Mainz, DE)

- **09:15**
  - Imaging criteria for selection of patients for transcatheter tricuspid valve repair.
  - R. Hahn (New York, US)

- **09:37**
  - Role of imaging during transcatheter tricuspid valve repair.
  - E. Brochet (Paris, FR)

08:30 - 10:00 Symposium MAHLER

**Cardiac resynchronisation update**

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

- **08:30**
  - Update coming from the research labs.
  - J. Lumens (Maastricht, NL)

- **08:52**
  - Update coming from the echo labs.
  - E. Donal (Rennes, FR)

- **09:15**
  - Update coming from the CMR and nuclear medicine fields + AF/CRT.
  - G. Sambuceti (Genova, IT)

- **09:37**
  - Where are we going?
  - J. Gorcsan (Pittsburgh, US)

08:30 - 10:00 Symposium WAGNER

**The role of myocardial deformation imaging in congenital heart disease**

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

- **08:30**
  - Myocardial deformation imaging: how to do it in the clinic?
  - A. Van De Bruijne (Neerijse, BE)

- **08:52**
  - Quantifying myocardial function and deformation patterns in congenital heart disease.
  - B.W. Eidem (Rochester, US)

- **09:15**
  - Global & regional right ventricular function in congenital heart disease and in pulmonary hypertension.
  - A. Dragulescu (Toronto, CA)

- **09:37**
  - Prognostic value of deformation imaging in congenital heart disease.
  - P. Barker (Durham, US)
Thursday 8 December 2016 - Morning Sessions

**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)

<table>
<thead>
<tr>
<th>Time</th>
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<th>Speaker</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Guidelines 2016.</td>
<td>L. Rudski (Cote St Luc, CA)</td>
<td></td>
</tr>
<tr>
<td>08:52</td>
<td>Advance echo imaging.</td>
<td>A. Van Den Bosch (Rotterdam, NL)</td>
<td></td>
</tr>
<tr>
<td>09:15</td>
<td>Right heart hemodynamics: echo-cath discrepancies.</td>
<td>I.M. Coman (Bucharest, RO)</td>
<td></td>
</tr>
<tr>
<td>09:37</td>
<td>When and why to use CMR/CT to assess the RV.</td>
<td>M.J. Van Der Vlugt (Nijmegen, NL)</td>
<td></td>
</tr>
</tbody>
</table>

**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)

<table>
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<th>Time</th>
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<tr>
<td>08:30</td>
<td>Echo in restrictive CM.</td>
<td>R. Citro (Salerno, IT)</td>
<td></td>
</tr>
<tr>
<td>08:52</td>
<td>Nuclear / CT in RCM.</td>
<td>D. Neglia (Pisa, IT)</td>
<td></td>
</tr>
<tr>
<td>09:15</td>
<td>Cardiovascular magnetic resonance in RCM.</td>
<td>C. Bucciarelli-Ducci (Bristol, GB)</td>
<td></td>
</tr>
<tr>
<td>09:37</td>
<td>Multi-modality Imaging in RCM: new insight from the recommendation.</td>
<td>G. Habib (Marseille, FR)</td>
<td></td>
</tr>
</tbody>
</table>

**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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<tbody>
<tr>
<td>08:30</td>
<td>Essentials for ultrasound: physics, instrumentation, settings.</td>
<td>H. Skinner (Nottingham, GB)</td>
<td></td>
</tr>
<tr>
<td>08:52</td>
<td>The complete standard examination.</td>
<td>L. Gargani (Pisa, IT)</td>
<td></td>
</tr>
<tr>
<td>09:15</td>
<td>The usual mistakes and how to avoid them.</td>
<td>A. Stefanidis (Athens, GR)</td>
<td></td>
</tr>
<tr>
<td>09:37</td>
<td>Quality control in the echo-lab.</td>
<td>K.F. Fox (London, GB)</td>
<td></td>
</tr>
</tbody>
</table>
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)

08:00  Panel of experts:  
J.K. Oh (Rochester, US); N. Cardim (Lisbon, PT)  

08:30  Intracardiac vortex intensity predicts early decompensation in dilated cardiomyopathy  

08:41  Myocardial stiffness assessment using shear wave imaging in healthy adult population  
O. Villedeman, M. Correa, E. Mousseaux; J. Baranger, S. Zarka, M. Pernot, E. Messas (Paris, FR)  

08:52  A quantitative and qualitative characterization of the intraventricular blood flow of the normal human left ventricle using a contrast-tracking echo-PIV technique  
V.R. Piro, O. Piro, N. Piro (Las Palmas de Gran Canaria and Palma de Mallorca, ES; Lausanne, CH)  

09:03  Speckle tracking derived diastolic strain rate is an independent determinant of cardiac magnetic resonance detected myocardial fibrosis in patients with Fabry disease  
K. Hu, D. Liu, D. Oder; S. Herrmann, G. Ertl, F. Wedemann, C. Wanner; S. Stoerk, P. Nordbeck (Wuerzburg and Unna, DE)  

09:15  Head to head comparison of global and regional 2D speckle tracking strain vs cardiac magnetic resonance tagging in a multicenter validation study.  
M.S. Amzulescu, H. Langet, E. Saloux, A. Manrique, L. Boileau, A. Slimani, P. Allain, C. Roy, A. Pasquet, M. De Craene,  
D. Vanraeynest, A.C. Pouleur, J.L. Vanoverschelde, B.L.M. Gerber (Brussels, BE; Caen and Paris, FR)  

09:26  A twisting left ventricular ultrasound phantom for evaluation of 3D speckle tracking twist measurements  
J.J. Hjertaas, K. Matre (Bergen, NO)  

09:37  A new 2D-strain index to improve cardiovascular risk stratification in heart failure with reduced and mid-range ejection fraction  
C. Mornos, A. Ionac, L. Petrescu, A. Mornos, M. Lazar, R. Sosdean, D. Cozma (Timisoara, RO)  

09:48  Adding speckle tracking echocardiography to visual assessment improves the detection of chronic myocardial infarction  
D.V. Zaar, M. Van Mounik, M.W. Smulders, V.L. Passos, S. Schalla, C. Knackstedt, G. Schummers, O. Gjedsl, T. Edvardsen,  
S.C. Bekkers (Maastricht, NL; Unterschleissheim, DE; Oslo, NO)  

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
### Thursday 8 December 2016 - Morning Sessions

#### 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 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)

#### 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)

**11:22**  
**Biscupid and the aorta: dangerous liaisons.**  
H. Michelena (Rochester, US)

**11:45**  
**What the surgeon needs to know about aorta before aortic valve surgery?**  
G. Teixido Tura (Barcelona, ES)

**12:07**  
**What the interventional cardiology needs to know about the aorta before TAVI.**  
R. Hahn (New York, US)

#### 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 recommandations for imaging hypertension.**  
M. Golderisi (Naples, IT)

**11:22**  
**The grey zone in Athlete’s heart.**  
A.D. Andrea (Naples, IT)

**11:45**  
**Hyperthophic cardiomyopathy.**  
S. Nagueh (Houston, US)

**12:07**  
**FABRY disease.**  
T. Palecek (Prague, CZ)

#### 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)

**11:22**  
**Diagnost conundrums in transesophageal echo.**  
F. Flachskampf (Uppsala, SE)

**11:44**  
**Solving diagnostic riddles in Cardiac CT images.**  
J.F. Rodriguez Palomares (Barcelona, ES)

**12:07**  
**Puzzling clinical cases of cardiac magnetic resonance.**  
H. Thiele (Luebeck, DE)
### Thursday 8 December 2016 - Morning Sessions

#### Debate Session

**Safety of cardiac imaging: danger zone**

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
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</tr>
</thead>
<tbody>
<tr>
<td>11:00</td>
<td>Cardiovascular magnetic resonance is safe. Pro.</td>
<td>S. Plein (Leeds, GB)</td>
</tr>
<tr>
<td>11:22</td>
<td>Cardiovascular magnetic resonance may harm. Contra.</td>
<td>A. Nchimi (Luxembourg, LU)</td>
</tr>
<tr>
<td>11:45</td>
<td>Decrease of irradiation: when enough is not enough. Pro.</td>
<td>J.S. Schwitter (Lausanne, CH)</td>
</tr>
<tr>
<td>12:07</td>
<td>Decrease of irradiation: when enough is not enough. Contra.</td>
<td>J.M. Knuuti (Turku, FI)</td>
</tr>
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</table>

#### Symposium

**Mitral stenosis**

*Joint session with the Moroccan Working Group on Echocardiography*

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

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

#### Symposium

**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)

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<tr>
<td>11:00</td>
<td>Cost-effectiveness of advanced cardiac imaging in IHD: state of the art.</td>
<td>S.R. Underwood (London, GB)</td>
</tr>
<tr>
<td>11:22</td>
<td>In which patients is NUCLEAR imaging more cost-effective?</td>
<td>H.J. Verberne (Amsterdam, NL)</td>
</tr>
<tr>
<td>11:45</td>
<td>In which patients is cardiovascular magnetic resonance more cost-effective?</td>
<td>C. Bucciarelli-Ducci (Bristol, GB)</td>
</tr>
<tr>
<td>12:07</td>
<td>In which patients is Computed Tomography more cost-effective than stress imaging?</td>
<td>D. Andreini (Milan, IT)</td>
</tr>
</tbody>
</table>
**Thursday 8 December 2016 - Morning Sessions**

### Teaching Course

**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.

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<td>11:00</td>
<td>Quantitation of left ventricular dimensions and function.</td>
<td>A.N. Neskovic (Belgrade, RS)</td>
<td>342</td>
</tr>
<tr>
<td>11:22</td>
<td>Quantitation of right ventricular dimensions and function.</td>
<td>M. Cameli (Certaldo, IT)</td>
<td>343</td>
</tr>
<tr>
<td>11:45</td>
<td>Left and right atrium: size and function.</td>
<td>A. Rossi (Verona, IT)</td>
<td>344</td>
</tr>
<tr>
<td>12:07</td>
<td>Assessment of diastolic function.</td>
<td>C.C. Beladan (Bucharest, RO)</td>
<td>345</td>
</tr>
</tbody>
</table>

### Rapid Fire Abstract

**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)

<table>
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<tr>
<td>11:00</td>
<td>Panel of experts:</td>
<td>P. Maurovich-Horvat (Budapest, HU); K. Nieman (Stanford, US)</td>
<td>346</td>
</tr>
<tr>
<td>11:33</td>
<td>Aortic valve area using cardiac CT to improve the validity of LVOT measurement (ACTIV-LVOT study)</td>
<td>E. Alskaf, A. Kardos (Milton Keynes, GB)</td>
<td>350</td>
</tr>
<tr>
<td>11:56</td>
<td>Is there a correlation between coronary calcium score and high sensitivity c-reactive protein in patients with suspected coronary artery disease?</td>
<td>A. Ahmed, A. Suleiman, S. Almohdar, A. Aljizeeri, O. Smete, R. Abu Dhabi, A. Alsaileek, M. Al-Mallah (Riyadh and Qassim, SA; Abu Dhabi, AE)</td>
<td>352</td>
</tr>
<tr>
<td>12:07</td>
<td>Coronary CT angiography for the assessment of cardiac allograft vasculopathy after heart transplantation</td>
<td>M. Karolyi, A. Bartykowszki, M. Kolossvary, I. Kosmar, B. Szilveszter, A. Jermendy, J. Karady, B. Sax, O. Balogh, B. Merkely, P. Maurovich-Horvat (Budapest, HU)</td>
<td>353</td>
</tr>
<tr>
<td>12:18</td>
<td>Correlation between the epicardial fat volume, assessed by coronary computed tomography, and coronary plaque vulnerability in acute coronary syndromes</td>
<td>T. Benedek, N. Rat, M. Moraru, Z.S. Suciu, A. Stanescu, M. Dobra, D. Opincariu, I. Benedek (Targu Mures, RO)</td>
<td>354</td>
</tr>
</tbody>
</table>
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** Clinical value of advanced cardiac analysis using 2D and 3D speckle tracking for the daily routine.
  - L. Perez De Isla (Madrid, ES)

- **13:05** New assessments of myocardial function and cardiac flow.
  - H.J. Nesser (Linz, AT)

- **13:25** Advanced cardiac analysis and its value in sports medicine.
  - 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** Opening remarks.
  - M.J. Monaghan (London, GB)

- **12:48** How peri-operative and peri-interventional Live 3D TEE is evolving. Latest advances illustrated by clinical cases.
  - D. Berson (Austin, US)

- **13:06** Advances in fusion of Live 3D transesophageal echo with fluoroscopy. How periprocedural guidance can be further improved.
  - P. Biaggi (Zurich, CH)

- **13:24** Clinical benefits of left heart volumetry and left ventricle deformation assessment for patients during cancer therapy.
  - T. Lopez Fernandez (Madrid, ES)

- **13:42** Closing remarks.
  - 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** Contrast Echocardiography in Cardiology: an update.
  - H.H. Becher (Edmonton, CA)

- **13:05** The Incremental Value of Contrast Enhanced Stress Echocardiography in Patients with suspected CAD.
  - R. Senior (London, GB)

- **13:25** Conclusion: is it really acceptable to not use contrast?
  - H.H. Becher (Edmonton, CA); R. Senior (London, GB)

- **13:35** Q/A.
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 - 13:45 Moderated Posters

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.

- Classic-pattern dyssynchrony in adult patients with a Fontan circulation
  A. Rosner, T. Khalapyan, H. Dalen, D. Mc Elhinney, C. Haeffele, S. Chen, S. Fernandes, B. Bijnen, M. Friedberg, G.K. Lui (Tromso and Levanger, NO; Palo Alto, US; Barcelona, ES; Toronto, CA)

- Outcome of pregnancy in patients with coarctation of aorta
  A. Quattrone, A. Skeide, H. Lindberg, A.S. Letting, E. Langsaeter, M.E. Estensen (Oslo, NO)

- Diffuse myocardial fibrosis is not associated with decreased contractility: a magnetic resonance T1 mapping and feature tracking study
  S. Ide, D. Yim, E. Riesenkampff, M. Seed, S.J. Yoo, L. Grosse-Wortmann (Toronto, CA)

- Cardiovascular abnormalities in patients with osteogenesis imperfecta: case-control study

- Serial assessment of left ventricular systolic function by speckle tracking in patients with coarctation of the aorta undergoing stenting

- Longitudinal function and ventricular dyssynchrony are restored in children with pulmonary stenosis after percutaneous balloon pulmonary valvuloplasty
  T. Moustafa, R. Mahfouz, M. Gada, M. Gad (zagazig, EG)

- Evaluation of the relationship between ventricular end-diastolic pressure and echocardiographic measures of cardiac function in adults with a Fontan circulation
  R. Cordina, M. Ministen, D.S. Celermaier, A. Uebling, W. Li (Sydney, AU; London, GB)

- Right ventricular remodelling after percutaneous pulmonary valve replacement in corrected tetralogy of Fallot with severe pulmonary regurgitation. Time matters
### 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.

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interpretability of cardiac magnetic resonance in patients with adult congenital heart disease and an implantable electronic device</td>
<td>M. Yadava, M. Nugent, A. Krebsbach, C. Henrikson, C. Broberg (Portland, US)</td>
</tr>
<tr>
<td>Is stress cardiovascular magnetic resonance really useful to detect ischemia and predict events in patients with different cardiovascular risk profile?</td>
<td>P.M. Azcarate Aguero, A. Esteban Fernandez, J. Barba Cosials, G. Bastarnika Aleman, I. Coma-Canella (Logroño and Pamplona, ES)</td>
</tr>
<tr>
<td>Ischaemic burden and LGE extension in CTO patients.</td>
<td>L. Coppini, S. Moscatelli, G. Malanchini, M.P. Del Corral, B. Nardi, G. Gasparini, P. Presbitero, L. Monti (Milan, IT)</td>
</tr>
</tbody>
</table>
### Multimodality imaging to optimize the management of atrial fibrillation

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00</td>
<td>Main Session</td>
<td>L.E. Sade (Ankara, TR)</td>
<td>Role of imaging to predict atrial fibrillation development.</td>
</tr>
<tr>
<td>14:22</td>
<td>Main Session</td>
<td>T. Kolias (Ann Arbor, US)</td>
<td>Role of imaging to guide atrial fibrillation ablation.</td>
</tr>
<tr>
<td>14:45</td>
<td>Main Session</td>
<td>O.A.B. Breithardt (Kassel, DE)</td>
<td>Additive role of imaging to predict thromboembolic risk.</td>
</tr>
</tbody>
</table>

### Heart failure and prosthetic valves

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00</td>
<td>Clinical Imaging</td>
<td>M. Vieira (Sao Paulo, BR)</td>
<td>Acute heart failure in patients with prosthetic valves.</td>
</tr>
<tr>
<td>14:22</td>
<td>Clinical Imaging</td>
<td>A. Ionescu (Swansea, GB)</td>
<td>Chronic heart failure in patients with prosthetic valves.</td>
</tr>
<tr>
<td>14:45</td>
<td>Clinical Imaging</td>
<td>P. Pibarot (Quebec, CA)</td>
<td>Prosthetic Patient Mismatch near extinction.</td>
</tr>
<tr>
<td>15:07</td>
<td>Clinical Imaging</td>
<td>K. Fattouch (Palermo, IT)</td>
<td>Perspectives in valve surgery.</td>
</tr>
</tbody>
</table>

### 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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00</td>
<td>Special Session</td>
<td>F. Bandera (Varese, IT)</td>
<td>Severe VHD : what is an asymptomatic patient?</td>
</tr>
<tr>
<td>14:22</td>
<td>Special Session</td>
<td>H. Baumgartner (Muenster, DE)</td>
<td>What are guidelines telling us?</td>
</tr>
<tr>
<td>14:45</td>
<td>Special Session</td>
<td>H. Jung (Seoul, KR)</td>
<td>What is the true place of stress echocardiography?</td>
</tr>
<tr>
<td>15:07</td>
<td>Special Session</td>
<td>S.J. Park (Seoul, KR)</td>
<td>Is multimodality imaging the key?</td>
</tr>
</tbody>
</table>

### Secondary mitral regurgitation: repair or replacement.

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00</td>
<td>Debate Session</td>
<td>J. Braun (Leiden, NL)</td>
<td>Secondary mitral regurgitation: repair or replacement. Pro: repair.</td>
</tr>
<tr>
<td>14:45</td>
<td>Debate Session</td>
<td>S. Kaul (Portland, US)</td>
<td>Pocket size is the new standard. Pro.</td>
</tr>
<tr>
<td>15:07</td>
<td>Debate Session</td>
<td>R.B.A. van den Brink (Amsterdam, NL)</td>
<td>Pocket size device: I just need a stethoscope. Contra.</td>
</tr>
</tbody>
</table>
### Thursday 8 December 2016 - Afternoon Sessions

**Symposium BRAHMS**

#### Dangerous liaison: imaging in cardio-renal disease

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00</td>
<td>Cardiac imaging in severe renal disease: what to look for?</td>
<td>N. Abidin (Salford, GB)</td>
</tr>
<tr>
<td>14:22</td>
<td>Cardiac impact of haemodialysis arteriovenous fistulae</td>
<td>P. Unger (Brussels, BE)</td>
</tr>
<tr>
<td>14:45</td>
<td>Role of imaging in various cardio-renal syndrome.</td>
<td>Y. Shacham (Ramat Gan, IL)</td>
</tr>
<tr>
<td>15:07</td>
<td>Dialysis in heart failure patients: impact on cardiac imaging parameters.</td>
<td>A.A. Pasquet (Brussels, BE)</td>
</tr>
</tbody>
</table>

**Symposium SCHUMANN**

#### New frontiers in congenital heart imaging

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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</thead>
<tbody>
<tr>
<td>14:00</td>
<td>Update on fusion of multimodality imaging.</td>
<td>A. Gomez (London, GB)</td>
</tr>
<tr>
<td>14:22</td>
<td>Holography, any use for congenital heart disease.</td>
<td>E. Bruckheimer (Zichron-Yaakov, IL)</td>
</tr>
<tr>
<td>14:45</td>
<td>3D printing: workflow to incorporate into normal practice.</td>
<td>M.N. Velasco Forte (London, GB)</td>
</tr>
<tr>
<td>15:07</td>
<td>3D rotational angiography: advanced imaging for/by interventionalist.</td>
<td>G. Krings (Utrecht, NL)</td>
</tr>
</tbody>
</table>

**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.*

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00</td>
<td>Tissue Doppler imaging and speckle tracking: general principles.</td>
<td>Z. Vered (Zerifin, IL)</td>
</tr>
<tr>
<td>14:22</td>
<td>Cardiac mechanics: rotation, torsion, twist, untwist.</td>
<td>B.A. Popescu (Bucharest, RO)</td>
</tr>
<tr>
<td>14:45</td>
<td>3D strain: general principles.</td>
<td>P.P. Sengupta (New York, US)</td>
</tr>
<tr>
<td>15:07</td>
<td>Evaluation of cardiac dyssynchrony.</td>
<td>M. Cikes (Zagreb, HR)</td>
</tr>
</tbody>
</table>
Thursday 8 December 2016 - Afternoon Sessions

Rapid Fire Abstract

**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 - Panel of experts:**
- O.A. Smiseth (Oslo, NO); T. Kukulski (Zabrze, PL)

**14:00**
- Added value over current diastology indices of Doppler-derived pulmonary artery diastolic pressure to estimate pulmonary wedge pressure. A catheterization re-validation study.

**14:11**
- Intraventricular velocity difference and velocity gradient along the early diastolic filling streamline as new measurements to assess diastolic dysfunction by vector flow mapping
  - 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 Golflin, J.L. Zamorano (Madrid, ES; Ljubljana, SI)

**14:22**
- A new testing approach for mapping two-dimensional intraventricular pressure gradient - initial report -

**14:33**
- Left ventricular diastolic abnormalities other than valvular disease in antiphospholipid syndrome: an echocardiographic study

**14:45**
- Quantification of diastolic dysfunction by the dominant impact of age on diastolic function
  - The biomathematical impact on risk factor assessment

**14:56**
- Echocardiographic subanalysis: correlation of the E/E-ratio to NT-BNP

**15:07**
- CMR-derived metrics of interstitial myocardial fibrosis: which parameter is better associated to the pathophysiology correlates of heart failure with preserved ejection-fractction?
  - P. Monney, S. Hugelshofer, P.G. Masci, G. Vincenti, T. Rutz, J. Schwitter (Lausanne, CH)

**15:18**
- Comparison of the myocardial stiffness of the left ventricle between elite athletes and the general population. Study with the use of tissue Doppler imaging.
Thursday 8 December 2016 - Afternoon Sessions

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 Patient-specific numerical mitral valve modelling in secondary mitral regurgitation: clinical validity of a promising technique
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 Importance of the measurement of right ventricular function when exercising patients with asymptomatic severe primary mitral regurgitation

16:00 Echocardiographic deformation imaging and computer simulation for electromechanical substrate characterization in arrhythmogenic right ventricular cardiomyopathy

16:15 The right ventricle of Olympic athletes: characteristics and implications for the clinical evaluation
F.D. ascenzi, A. Piscio, 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 improve their experiences to complete successfully research project: from founding and grant application, to data analysis, results presentation and publication.

15:40 Presenter:
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 Left ventricular ejection fraction in aortic stenosis and beyond!
J. Magne (Limoges, FR)

16:52 Cardiovascular magnetic resonance in aortic stenosis. A disease of the valve and/or myocardium.
J. Moon (London, GB)

17:15 Calcified aortic stenosis how molecular imaging may impact my practise?
M. Dweck (Edinburgh, GB)

17:37 Paradoxical low flow aortic stenosis still controversial!
P. Pibarot (Quebec, CA)
### Thursday 8 December 2016 - Afternoon Sessions

#### Clinical Imaging

**BACH**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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</thead>
<tbody>
<tr>
<td>16:30</td>
<td>Challenges in pulmonary hypertension</td>
<td>G. Di Salvo (London, GB)</td>
</tr>
<tr>
<td></td>
<td>This session is supported in a form of an unrestricted educational</td>
<td>R. Faludi (Pecs, HU)</td>
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<td></td>
<td>grant from United Therapeutics.</td>
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<tr>
<td>16:30</td>
<td>Can imaging differentiate pre and post capillary pulmonary</td>
<td>M.D. Alto (Naples, IT)</td>
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<td></td>
<td>hypertension?</td>
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<tr>
<td>16:52</td>
<td>Stress-echocardiography in pulmonary hypertension: tool or toy?</td>
<td>R.N. Naeje (Brussels, BE)</td>
</tr>
<tr>
<td>17:15</td>
<td>Controversy of estimating pulmonary arterial pressure by echocardiography.</td>
<td>D. Voillot (Nancy, FR)</td>
</tr>
<tr>
<td>17:37</td>
<td>Imaging and pulmonary hypertension treatment.</td>
<td>P. Lindqvist (Umea, SE)</td>
</tr>
</tbody>
</table>

#### Symposium

**MAHLER**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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</thead>
<tbody>
<tr>
<td>16:30</td>
<td>That’s right</td>
<td>M. Henein (Umea, SE)</td>
</tr>
<tr>
<td></td>
<td>Joint session with the Canadian Society of Echocardiography (CSE)</td>
<td>C.M. Chow (Toronto, CA)</td>
</tr>
<tr>
<td>16:30</td>
<td>Arrhythmogenic right ventricular dysplasia.</td>
<td>K.H. Haugaa (Oslo, NO)</td>
</tr>
<tr>
<td>16:52</td>
<td>Right heart in athletes.</td>
<td>L. Rudski (Cote St Luc, CA)</td>
</tr>
<tr>
<td>17:15</td>
<td>Right ventricular in patients with right heart surgery.</td>
<td>T. Le Tourneau (Nantes, FR)</td>
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<tr>
<td>17:37</td>
<td>Right ventricular in candidates with left ventricular assist device</td>
<td>M.C. Parent (Montreal, CA)</td>
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<td>implantation.</td>
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#### Debate Session

**WAGNER**

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<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:30</td>
<td>Ischaemic heart disease: single or multimodality imaging</td>
<td>A.N. Neskovic (Belgrade, RS)</td>
</tr>
<tr>
<td></td>
<td>Joint session with the European Society of Cardiac Radiology (ESCR)</td>
<td>L.A. Pierard (Liege, BE)</td>
</tr>
<tr>
<td>16:30</td>
<td>In patients with known or suspected coronary artery disease, I only need the anatomy: computed tomography.</td>
<td>O. Gaemperli (Zurich, CH)</td>
</tr>
<tr>
<td>16:52</td>
<td>In patients with known or suspected coronary artery disease, I prefer functional imaging.</td>
<td>J.M. Knuuti (Turku, FI)</td>
</tr>
<tr>
<td>17:15</td>
<td>For assessment of myocardial viability I only need LGE-MRI.</td>
<td>M. Gutberlet (Leipzig, DE)</td>
</tr>
<tr>
<td>17:37</td>
<td>For assessment of myocardial viability I only need stress echocardiography.</td>
<td>A.A. Pasquet (Brussels, BE)</td>
</tr>
</tbody>
</table>
Thursday 8 December 2016 - Afternoon Sessions

### 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.

<table>
<thead>
<tr>
<th>Time</th>
<th>Presentation</th>
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</thead>
<tbody>
<tr>
<td>16:30</td>
<td>Tomtec Imaging Systems GMBH: Clinical Workflow – How Automation Improves Efficiency.</td>
<td>C. Galuschky (Unterschleissheim, DE)</td>
</tr>
<tr>
<td>16:43</td>
<td>Panel discussion.</td>
<td></td>
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<tr>
<td>16:48</td>
<td>Lantheus Medical Imaging, Inc: LMI Cardiovascular Imaging: Now &amp; into the Future.</td>
<td>C. Orlandi (North Billerica, US)</td>
</tr>
<tr>
<td>17:01</td>
<td>Panel discussion.</td>
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<tr>
<td>17:06</td>
<td>Pie Medical Imaging BV: 4D contrast: Adding an extra dimension.</td>
<td>M. M. Bassel (Oxford, GB)</td>
</tr>
<tr>
<td>17:19</td>
<td>Panel discussion.</td>
<td></td>
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<tr>
<td>17:24</td>
<td>Philips: Philips vision: expand the relevance of echo to improve cardiac health.</td>
<td>A. Goncalves (Boston, US)</td>
</tr>
<tr>
<td>17:37</td>
<td>Panel discussion.</td>
<td></td>
</tr>
<tr>
<td>17:42</td>
<td>GE Healthcare: Impact of Software Beamforming (cSound) on Future of Echocardiography</td>
<td>A. Lojewski (Milwaukee, US)</td>
</tr>
</tbody>
</table>

### Symposium SCHUMANN

**Advanced imaging in advanced heart failure**

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

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

### Teaching Course STRAUSS

**Advanced echo techniques II: miscellaneous**

Chairpersons: O. Kamp (Amsterdam, NL); S. Mihalceanu (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.

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<tr>
<td>16:30</td>
<td>Stress echocardiography in valve disease.</td>
<td>E. Schwammenthal (Tel Hashomer, IL)</td>
</tr>
<tr>
<td>16:52</td>
<td>Contrast echocardiography: current applications.</td>
<td>H.H. Becher (Edmonton, CA)</td>
</tr>
<tr>
<td>17:15</td>
<td>3D intra-cardiac echocardiography.</td>
<td>M.L. Narducci (Rome, IT)</td>
</tr>
<tr>
<td>17:37</td>
<td>Echo guiding percutaneous procedures.</td>
<td>F.F. Falsetra (Lugano, CH)</td>
</tr>
</tbody>
</table>
Thursday 8 December 2016 - Afternoon Sessions

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)

16:30  Panel of experts:
H. Grotenhuijs (Utrecht, NL); P. Barker (Durham, US)

A. Mas-Stachurska, E. Guasch, M. Sitges, M. Battle, T. Meireles, N. Castillo, P. Rudenick, B. Bijnens, G. Egea (Barcelona, ES)

16:41  Pre-intervention morphologic and functional echocardiographic characteristics of 651 neonates with critical left ventricular outflow tract obstruction
M.G. Slieker, J.M. Meza, B.W. Mccrindle, T. Karamlou, C.I. Tchervenkov, W.M. Decampli, P.T. Burch, L. Mertens (Toronto and Montreal, CA; San Francisco, Baltimore, Orlando and Salt Lake City, US)

16:52  Ventricular geometry and function in adult patients with Fontan surgery
M.G. Slieker, J.M. Meza, B.W. Mccrindle, T. Karamlou, C.I. Tchervenkov, W.M. Decampli, P.T. Burch, L. Mertens (Toronto and Montreal, CA; San Francisco, Baltimore, Orlando and Salt Lake City, US)

17:03  Long term functional and myocardial assessment of patients with critical aortic valve stenosis

17:15  Late gadolinium enhancement and exercise capacity in adults with Ebstein’s anomaly
A. Cieplucha, O. Trojnarska, M. Pyda, A. Kociemba, M. Lanocha, M. Barczynski, L. Kramer, S. Grajek (Poznan, PL)

17:26  Exercise echocardiography value in the evaluation of operated aortic coarctation patients

17:37  Functional evolution of the right ventricle after pulmonary valve replacement due to significant regurgitation. Implications in the surgical moment decision.

17:48  Independent predictors of arrhythmias in adult patients with surgically corrected tetralogy of fallot: role of two-dimensional and speckle-tracking echocardiography
M.A. Nogueira, L.M. Branco, A.T. Trinoto, M. Oliveira, A. Agapito, G. Portugal, L. Sousa, J.A. Oliveira, R. Cruz Ferreira (Lisbon, PT)
Thursday Posters
Thursday 8 December 2016 - Posters

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.
Strain concordance in a real-world setting: experience in our laboratory after equipment upgrade.
J.P. Cueva Recalde, J. Gayan Ordas, I. Lacambra Blasco (Zaragoza, ES)
3D echocardiography is a fast-learning and reliable method for the measurements of left atrial volumes
A. Velosa, 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
S. Aguiar Rosa, A. Galrinho, L. Branco, A. Timoteo, P. Cunha, A. Lousinha, B. Valente, T. Pereira Silva, M. Oliveira, R. Cruz Ferreira (Lisbon, PT)
Noninvasively measured global wasted myocardial work allows for quantitative assessment of typical left ventricular mechanical dyssynchrony pattern in patients with left bundle branch block
E. Surkova, J. Aalen, E. Samset, J. Bdvievi, 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
The impact of the latest chamber quantification recommendations on the prediction of left atrial appendage thrombus presence
K. Kupczynska, B. Michaliski, D. Miskowiec, J.D. Kasprzak, P. Lipiec (Lodz, PL)
The cardiac-enriched miRNAs plasma levels (miR-1, miR-133a, miR-499) reflect the impaired left ventricular systolic function and correlate with cardiac necrosis markers in early phase of NSTE-ACS
D. Miskowiec, 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
R. Verseckaite, V. Mizarine, A. Montvilaita, R. Unikaite, M. Bieseviciene, R. Jurkevicius (Kaunas, LT)
The appropriate use of transthoracic echocardiography for the exclusion of infective endocarditis
S. Guerreiro, L. Raposo, M.J. Andrade, E. Horta, C. Reis, M. Almeida, M. Mendes (Lisbon, PT)

Echocardiographic risk factors for 30 day mortality after the hybrid procedure for hypoplastic left heart syndrome
Left ventricular mass is an independent predictor of coronary flow reserve: insights from a single centre stress echo cohort
S. Guerreiro, L. Raposo, M.J. Andrade, E. Horta, C. Reis, M. Almeida, M. Mendes (Lisbon, PT)
Transesophageal echocardiography under conscious sedation for guiding cryoballoon pulmonary vein isolation in paroxysmal atrial fibrillation - the safety and feasibility study
D. Miskowiec, P. Wejner-Mik, J.D. Kasprzak, H.D. Qawoq, P. Zycinska, T. Wcislo, K. Kupczynska, P. Lipiec (Lodz, PL)
Transesophageal echocardiography under conscious sedation for guiding cryoballoon pulmonary vein isolation in paroxysmal atrial fibrillation - the safety and feasibility study
D. Miskowiec, P. Wejner-Mik, J.D. Kasprzak, H.D. Qawoq, P. Zycinska, T. Wcislo, K. Kupczynska, P. Lipiec (Lodz, PL)
Three-dimensional trans-esophageal echocardiography assessment of the immediate morphological changes of the mitral annulus after percutaneous mitral edge-to-edge repair
H.M. Mahmoud, O. Abdel Raouf, A. Kheir, S. Halawa, M. Al-Ghamdi, A. Ghabashi (Aswan, EG; Hofuf and Makkah, SA)
Clinical value of global and regional longitudinal strain in prediction of myocardial ischemia in asymptomatic diabetes type 2 patients
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  
A. Brecht, M. Bathe, S. Oertelt-Prigione, U. Seeland, V. Regitz-Zagrosek, G. Baumann, K. Stangl, V. Stangl, F. Knebel, H. Dreger (Berlin, DE)

Comparison of prognostic operative risk impact on the global longitudinal strain right ventricle (GLS RV) and tricuspid annular plane systolic excursion (TAPSE) values in patients with Ischaemic cardio  
R. Babukov, V.V. Bazilev, F.L. Bartosh (Penza, RU)

Comparison of 2D, 3D transesophageal echocardiography and computed tomography during the assessment of left atrial appendage closure  
M.J. Garcia-Sanchez, M. Barreiro-Perez, A. Arribas-Jimenez, A. Martin-Garcia, E. Diaz-Pelaez, J.C. Rama-Merchan, I. Cruz-Gonzalez, P.L. Sanchez (Salamanca, ES)
Thursday 8 December 2016 - Posters

08:30 - 12:30 Poster Session

**Clinical Case Poster session I**

The incremental value of advanced cardiovascular multi-modality imaging in the investigation of a cardiac mass  
P. Lech (North Shields, GB)

Metastatic adenocarcinoma involving the right ventricle and pulmonary artery leading right heart failure  
T. Karabag (Istanbul, TR)

A malignant cause of angina in hypertrophic cardiomyopathy  
P. Modas Daniel (Lisbon, PT)

Dyspnea in a severe mitral stenotic gentleman with hypereosinophilia  
H.R. Tsai (Tainan, TW)

After transcatheter aortic valve implantation be aware of infections, a case of fistulization from left ventricular outflow track to left atrium  
R.C. Vidal Perez (Santiago De Compostela, ES)

Myocardial infarction masking infective endocarditis  
S. Anwer (Nasr City, EG)

Subendocardial abscess by contiguity of a valvular vegetation  
J. Gorriz Magana (Madrid, ES)

Real-time three-dimensional transesophageal echocardiography as compared to in vivo anatomy in a case of Candida parapsilosis native mitral valve endocarditis.  
A. Giavarini (Milan, IT)

TAVI in prosthetic heart valve failure : echocardiography guided transcatheter percutaneous valve in valve implantation (VIV) for failed TAVI corevalve bioprosthesis  
A. Katbeh (Madrid, ES)

Functional-anatomic matching between longitudinal strain pattern and late gadolinium enhancement of cardiac amyloidosis at presentation.  
F. Lo Iudice (Naples, IT)

Heart failure due to masked systolic atrial contraction detected by pulmonary venous flow in a patient with ventricular pacing  
A. Hayashida (Okayama, JP)

The detection of early left ventricular dysfunction by global longitudinal strain is helpful to keep in adjuvant therapy breast cancer patients till completion  
M. Lembo (Naples, IT)

Forgotten cause of known disease: pulmonary hypertension caused by schistosomiasis  
A.M. Jamiel (Riyadh, SA)

Complete regression of tuberculous constrictive pericarditis after steroid therapy evaluated by echocardiography: case report  
R.; Ariani (Jakarta, ID)

Single coronary origin delineation by echocardiography alone in a patient with tetralogy of fallot changing the surgical plan  
H. Bellsham-Revell (London, GB)

A rare complication after multiple valve repair  
C.Y. Wong (Hong Kong, HK)

Unusual cause of cyanosis in a young adult with cavopulmonary connections  
M. Ministeri (Gela, IT)

Abnormal flow in the main pulmonary artery in adult patients: a tale of 2 shunts  
A. Woolf (Akron, US)

Unexpected TEE finding: mediastinal lipomatosis can fake an aortic intramural haematoma  
A. Carbone (Villaricca, IT)
**Assessment of morphology and function**

*The imaging examination and quality assessment*

Benefit of early basic transthoracic echocardiography (TTE) in emergency patients performed by physicians with low to intermediate TTE experience  
M. Brand, M. Christ, J. Roesing, S. Amirie, M. Grett, M. Beko, I. Breker, R. Wennemann, H.-J. Trappe (Herne, DE)  

Appropriateness criteria in echocardiography: A contemporary necessity in clinical practice.  
A. Stefanidis, S. Lagoudakou, K. Vintzilaos, N. Mokadem, J. Vlachou, E. Komatanou, P. Koriou, A. Kakavas, K. Komninos, A. Kranidis (Piraeus, GR)  

Interobserver variability in 2D transthoracic echocardiography: impact of scanning and reading on total variability results from the STAAB cohort study quality control  

*3D printing for personalised planning of catheter-based left atrial appendage occlusion*

Y.T. Fan, D. Yang, X. Wang, A.K. Chan, S.H. Cheung, A.P. Lee (Hong Kong, HK; Hangzhou, CN)  

Central obesity: an independent role or synergistic effect to metabolic syndrome on right atrial structure?  
E. Galli, C. Leclercq, M. Fournet, A. Bernard, P. Mabo, E. Samset, A. Hernandez, E. Donal (Rennes and Tours, FR; Oslo, NO)  

*Left ventricular myocardial performance and atrioventricular coupling in patients with primary arterial hypertension*

Q. Almodares, C. Wallentin Guron, A. Thurin, M. Fu, S. Kontogeorgos, E. Thunstrom, M.C. Johansson (Gothenburg, SE)  

The association of left ventricular outflow tract velocity time integral to all-cause mortality in elderly patients with heart failure  
H. Abdulrahim, C. Da Silva, A. Venkateshvaran, A.I. Nagy, L.H. Lund, A. Manouras (Stockholm, SE; Budapest, HU)  

Interest of a combinatory approach based on traditional left ventricular dyssynchrony parameters and cardiac work estimated by pressure-strain loop curves for the prediction of cardiac resynchronization therapy responsiveness  
E. Galli, C. Ledercq, M. Fourmet, A. Bernard, P. Mabo, E. Samset, A. Hernandez, E. Donal (Rennes and Tours, FR; Oslo, NO)  

The evaluation of cardiac performance by pressure-strain loops: a useful tool for the identification of cardiac resynchronization therapy responders  
E. Galli, C. Ledercq, M. Fourmet, A. Bernard, P. Mabo, E. Samset, A. Hernandez, E. Donal (Rennes and Tours, FR; Oslo, NO)  

Left ventricular function by 2D-speckle tracking echocardiography in diabetes mellitus population: sub-clinical systolic disfunction study.  
J. Moreno, C.M.L. Martinez Lugo, J.Z.D. Zuniga Sedano, E.A.R. Alexanderson, J.C. Camilletti (Guadalajara and Mexico City, MX; Guadalajara, ES; La Plata, AR)  

Biphasic tissue doppler mitral annular isovolumic contraction velocities are associated with left ventricular function, isovolumic relaxation, and pulmonary wedge pressure in heart failure patients  

Abnormal left atrial volumes and strains are associated with increased arterial stiffness in patients with cryptogenic stroke: a novel pathophysiological path  

**Ischaemic heart disease**

Detection of coronary microvascular disease using two-dimensional speckle-tracking echocardiography  

Predictive value of a bi-dimensional transthoracic echocardiographic sign of "binary image" to identify the anomalous origin of the left circumflex coronary artery from the right coronary sinus  
S. Bonapace, E. Adamo, F. Valbusa, C. Ciccio', A. Rossi, L. Lanzoni, A. Chiampant, A. Cecchetto, G. Canali, E. Barbieri (Negrar, Verona, Negrar and Verona, IT)  

Systematic review and meta-analysis of screening for coronary artery disease in asymptomatic diabetic patients  
O.F. Clerc, T.A. Fuchs, J. Stehi, D.C. Benz, C. Graeni, R.R. Buechel, P.A. Kaufmann, O. Gaemperli (Zurich, CH)  

Noninvasive screening test for diagnosis of nonobstructive coronary artery disease using echocardiographic criteria  
V.A. Kuznetsova, E.I. Yaroslavskaya, A.V. Yaroslavskaya, D.V. Knopkina, G.V. Kolenin, E.A. Gorbatenkov, S.M. Dyachkov (Tyumen, RU)  

Early echocardiography after primary angioplasty: impact on predicting left ventricular remodeling  

**Heart valves**

Prognostic impact of low-flow low-output aortic stenosis in Japanese patients undergoing transcatheter aortic valve implantation: the ocean-tavi registry  
Left ventricular outflow tract geometry and its impact on aortic valve area calculations in aortic stenosis using 3D transoesophageal echocardiography and 2D transthoracic echocardiography


PS40

Impaired left atrial myocardial deformation predicts postoperative atrial fibrillation after aortic valve replacement in patients with aortic stenosis


PS41

Ejection fraction-ratio velocity in predicting symptoms in severe aortic stenosis

F. Antonini-Canterini, C. Di Nora, S. Poli, O. Vriz, C. Ziotti, S. Carei, D. Pavan (Pordenone, Trieste, San Daniele del Friuli and Messina, IT)

PS42

Incremental value of transoesophageal echocardiography in conjunction with transthoracic echocardiography in the assessment of aortic stenosis severity

S.S. Schwartzenberg, M. Vaturi, S. Kazum, D. Monakier, A. Sagie, R. Kornowski, Y. Shapira (Petah Tikva, IL)

PS43

The importance of contractile reserve when assessing asymptomatic patients with aortic stenosis


PS44

Determinants of secondary mitral regurgitation in patients with aortic stenosis and preserved ejection fraction

J.M. Bantul-Bimbi, L. Jahjai, D. Schudde, T. Tran, T. Peperaak, J.L. Vandenbossche, P. Unger (Brussels, BE)

PS45

Exercise physiology in patients with mitral annular calcification

G. Pressman, Y. Toplisky, E. Donal (Philadelphia, US; Tel Aviv, IL; Rennes, FR)

PS46

Evaluation of left atrial strain in patients with rheumatic mitral stenosis

F.A. Castro, O. Azevedo, M. Lourenco, M. Fernandes, I. Oliveira, A. Lourenco, G. Santos (Guimarães, PT)

PS47

Impact of mitral regurgitation on impaired alopeal-capillary membrane diffusion in heart failure with reduced ejection fraction

D. Fina, V. Labate, A. Gasperetti, P.L. Laforja, F. Bandera, E. Alfonzetti, M. Guazzi (Milan and San Donato Milanese, IT)

PS48

Edge-to-edge repair in patients with dilated cardiomyopathy and secondary mitral regurgitation: acute effect on annular geometry

L. Faber, W. Scholz, A. Graw, N. Bogunovic, Z. Dimitriadic, S. Scholz, J. Boegermann, J. Gummert, D. Horstkotte (Bad Oeynhausen, DE)

PS49

Changes in the management of functional mitral regurgitation in the last 8 years in a tertiary referral hospital


PS50

Percutaneous closure of periprosthetic paravalvular leaks under echocardiographic guidance: establishing an alternative to reoperation?


PS51

Clinical profile and predictors of mortality in infective endocarditis with neurologic complications


PS52

TAVI, arterial stiffness and ventricular-arterial coupling

E. Sciatti, E. Vizzardi, I. Bonadei, F. Platto, M. Metra (Brescia, IT)

PS53

Low contrast media CT angiography prior to transcatheter aortic valve implantation procedure

A. Annino, A. Formenti, M.E. Mancini, G. Pontone, D. Andreini, L. Fusini, M. Muratori, S. Mushtaq, M. Guglielmo, M. Pepi (Milan, IT)

PS54

Hemodynamic and prognostic impact of permanent pacemaker implantation following transcatheter aortic valve implantation


PS55

Impact of transmembral aortic valve replacement on right ventricular function in the early postprocedural phase

A. Mas-Stachurska, M. Cladellas, M. Ble, B. Vaquerizo, N. Farre, L. Molina, M. Gomez, R. Milan, J. Marti (Barcelona, ES)

PS56

Effects of atrial fibrillation in patients undergoing mitral valve repair with the mitracip systemone-year outcomes from the GRASP registry


PS57

Who will not benefit from cardioversion?

M. Leitman, V. Tyomkin, E. Peleg, T. Fuchs, Z. Gabara, Z. Vered (Zenfin, IL)

PS58

Cardiomyopathies

Is there residual mechanical dysynchrony after initial IEGM optimization in cardiac resynchronization patients?

J. Lubas Maciej, V. Reskovic Lukic, M. Pasalic, B. Pezo Nikolic, M. Brestovac, J. Sepanovic Hanzevacki (Zagreb, HR)

PS59

Left ventricular reverse remodeling in dilated cardiomyopathy- maintained subclinical myocardial systolic and diastolic dysfunction


PS60

Combining tissue Doppler-derived Tei index and two-dimensional speckle tracking imaging derived longitudinal strain to predict outcome of patients with light-chain cardiac amyloidosis

D. Liu, K. Hu, S. Hermann, M. Cikes, G. Ertl, F. Weidemann, S. Stoerk, P. Nordbeck (Wuerzburg and Unna, DE; Zagreb, HR)

PS61

Long term vigorous exercise is well tolerated in hypertrophic cardiomyopathy

L.A. Dejaeger, T.F. Haland, O.H. Lie, M. Rie, I.S. Leren, T. Edvardsen, K.H. Haugaa (Oslo, NO)

PS62

Left atrial volume and not diameter is the main determinant of atrial fibrillation in patients with hypertrophic cardiomyopathy

M. Rosca, L. Mandes, A. Calin, C.C. Beladan, R. Enache, A. Mateescu, C. Bacus, C. Ghinghina, B.A. Popescu (Bucharest, RO)

PS63

Assessment of papillary muscle mass, apical displacement and mitral valve function in children and young adults with hypertrophic cardiomyopathy using three dimensional echocardiography.

N. Joseph, L. Li, M. Craft, L. Mill, C. Erickson, S. Kutty (Omaha, US)

PS64

2D-radial strain as a novel tool to identify pre-clinical hypertrophic cardiomyopathy mutation carriers


PS65

Non. Joseph, L. Li, M. Craft, L. Mill, C. Erickson, S. Kutty (Omaha, US)

PS66
Left and right ventricular dysfunction in patients submitted to chemotherapy with anthracyclines - predictive value of myocardial deformation imaging  

Echocardiography outcome monitoring of hypertensive patients with diastolic dysfunction under doxorubicin therapy  

Systemic diseases and other conditions  
Diastolic dysynchrony is associated with exercise intolerance in hypertensive patients with left ventricular hypertrophy  
I.H. Jung, H.S. Seo, M.J. Kim (Seoul, Bucheon and Incheon, KR)  

Echocardiographic pattern of acute pulmonary embolism, analysis of consecutive 511 patients  
I.H. Jung, H.S. Seo, M.J. Kim (Seoul, Bucheon and Incheon, KR)  

Clinical significance of ventricular interdependence and left ventricular function in patients with pulmonary hypertension receiving specific vasodilator therapy  
R. Enache, F. Popa, I.M. Coman, R. Badea, P. Platon, A. Călin, C.C. Beladan, M. Rosca, C. Gîrgîna, B.A. Popescu, R. Jurchut (Bucharest, RO)  

Haemodynamic characteristics and ventricular mechanics in post-capillary and combined pre- and post-capillary pulmonary hypertension  

Myocardial changes in patients with anorexia nervosa  
A. Gherghe, M.L. Vicario (Milan, IT)  

Giant cell arteritis presenting as fever of unknown origin: role of clinical history, early positron emission tomography and ultrasound screening  
G. Ortoni, S. Castellani, D. Cammelli, C. Gallini, L. Needeleman, B.K. Cruz, E. Maggi, N. Marchionni (Florence, IT; Philadelphia and Anchorage, US)  

Subclinical systolic dysfunction in systemic sclerosis is not influenced by standard rheumatologic therapy - a 4D echocardiographic study  
S.L. Magda, I.D. Bratu, R.I. Minuc, C.M. Mihai, A.M. Gherghe, M. Florescu, M. Cîntea, D. Vinereanu (Bucharest, RO)  

Cardiac index correlates with the degree of hepatic steatosis in obese patients with obstructive sleep apnea  
S. G. Szczyszczyn, P. Soberaj, P. Bielicki, R. Krenke, C.A. Szmielzsk (Warsaw, PL)  

Myocardial mechanics in top-level endurance athletes: a three-dimensional speckle tracking study  
F. Lo Iudice, M. Petitto, M. Ferrone, R. Esposito, A. Vaccaro, A. Buonauro, B. Tramarin, M. Calderoni (Naples, IT)  

The athlete heart: what happens to myocardial deformation in physiological adaptation to sports  
H. De Barros Viegas, L. Mendes, H. Dores, I. Melo, V. Madera, J. Patinha, C. Encarnacao, J. Ferreia Santos (Setúbal, PT)  

Association between left ventricle intrinsic function and urine protein-creatinine ratio in pre-eclampsia before and after delivery  
A. Shahab, F. Habib, A.M. Soesanto, J. Sedyawan, G. Abdurrazak (Jakarta, ID)  

Congenital heart disease  
Dilatation of the aorta in children with bicuspid aortic valve  

Myocardial changes in patients with anorexia nervosa  
A. Gherghe, M.L. Vicario (Milan, IT)  

Stress echo  
Dobutamine stress test fast protocol: diagnostic accuracy and security  
H. De Barros Viegas, L. Mendes, S. Sonia, V. Madeira, C. Encarnacao, J. Patinha, I. Melo, J. Ferreia Santos (Setúbal, PT)  

Prognostic value of non-positive exercise echocardiography in the patients submitted to percutaneous coronary intervention  
A. Marques, I.D. Bratu, R.I. Minuc, C.M. Mihai, A.M. Gherghe, M. Florescu, M. Cîntea, D. Vinereanu (Bucharest, RO)  

The use of myocardial strain imaging in the detection of coronary artery disease during stress echocardiography  
S. Shimoni, O. Edri, O. Edri, N. Schneider, N. Schneider, N. Abaye, N. Abaye, J. Goerge, J. Goerge, G. Gandelman, G. Gandelman (Rehovot, IL)  

Preserved O2 extraction exercise response in heart failure patients with chronotropic insufficiency: evidence for a central cardiac rather than peripheral oxygen uptake limitation  
G. Generati, F. Bandera, E. Alfonzetti, M. Guazzi (San Donato Milanese, IT)  

Major determinant of O2 artero-venous difference at peak exercise in heart failure and healthy subjects  
G. Generati, F. Bandera, S. Villani, O. Ferraro, E. Alfonzetti, M. Guazzi (San Donato Milanese and Pavia, IT)  

Stress echocardiography with contrast perfusion analysis for a more sensitive test for Ischaemic heart disease  

Transesophageal echocardiography  
Assessment of mitral annular physiology in myxomatous mitral disease with 3D transesophageal echocardiography: comparison between early severe mitral regurgitation and decompensated group  
T.E. Chen, K. Ong, R.M. Suri, M. Enrique-Sarano, H.I. Michlelena, H.M. Burkhart, S.M. Gillespie, S. Cha, S.V. Mankad (Taichung, TW; Rochester, US)  

Three-dimensional transesophageal echocardiographic assessment of the mitral valve geometry in patients with mild, moderate and severe chronic Ischaemic mitral regurgitation  
A. Andrianova, M.A. Saidova, M.N. Bolotova (Moscow, RU)
Left atrial appendage closure. Multimodality imaging in device size selection

Contrast echocardiography
Agitated blood-saline is superior to agitated air-saline for echocardiographic shunt studies

Contrast transthoracic echocardiography as a gatekeeper for patent foramen ovale closure
M. Muratori, G. Italiano, E. Innocenti, L. Fusini, M. Mapelli, G. Tamborini, S. Ghulam Ali, P. Grippari, A. Maltagliati, F. Celeste, M. Pepi (Milan, IT)

Tissue Doppler and speckle tracking
Mitral annular displacement in apical four-chamber view by speckle-tracking echocardiography as a simple index for left ventricular longitudinal systolic function

Impact of chronic glycemic control on left ventricular myocardial function in young patients with type 1 diabetes mellitus
C. Ruisanchez Villar, F.J. Gonzalez Vilchez, M. Piedra Leon, M. Marigomez Estrada, C. Pesquera Gonzalez, J. Ruano Calvo, J. Zarauza Navarro, R. Martin Duran, J.A. Amado Senaris (Santander, ES)

Association of left atrial function echocardiographic parameters with fibrosis assessed invasively in patients with sinus rhythm and atrial fibrillation undergoing ablation for atrial fibrillation.
E. Pilichowska, J. Baran, P. Kulakowski, B. Zaborska (Warsaw, PL)

Early radiotherapy-induced ECG changes and their comparison with echocardiography in breast cancer patients
W. Khalil (Zagazig, EG)

Evaluation of left atrial function in patients with non valvarul atrial fibrillation post cardioversion: speckle tracking echocardiography
E. Sciatti, E. Vizzardi, I. Bonadei, F. Platto, M. Metra (Brescia, IT)

Mitral annular morphology and function in cardiac amyloidosis as assessed by three-dimensional speckle tracking echocardiography
A. Nemes, D. Foldeak, P. Domsik, A. Kalapos, Z. Borbenyi, R. Sepp, T. Forster (Szeged, HU)

Computed Tomography and Nuclear Cardiology
Coronary plaque characterization in Egyptian metabolic syndrome patients using 64-MDCT
E. Selim, S. El Tahan, M. Loutfi, E. El Sharkawy (Alexandria, EG)
Clinical Case Poster session 2

Infective endocarditis in an adult female with bicuspid aortic valve, hypertrophic cardiomyopathy and amyopathic dermatomyositis. P608
A.L. Tojino (Pasay, PH)

Left ventricular mass P609
E. Elsharkawy (Alexandria, EG)

A rare case of mitral stenosis - Shones syndrome P610
S. Aguiar Rosa (Lisbon, PT)

The added value of three-dimensional echocardiography in the late diagnosis of a pacemaker complication in a patient with severe congestive heart failure P611
A.E. Velcea (Bucharest, RO)

Percutaneous paravalvular leak closure - procedure pitfalls P612
L. Almeida Morais (Lisbon, PT)

A case of late left ventricular pseudoaneurysm after aortic valve replacement for infective endocarditis. P613
N. Enzan (Fukuoka, JP)

Pseudoaneurysm of right ventricle and acute heart failure caused by prosthetic aortic valve endocarditis P614
T.L. Wang (Taoyuan, TW)

A misclassification of pulmonary stenosis severity during pregnancy P615
T. Kemaloglu Oz (Istanbul, TR)

A problematic case of left ventricular hypertrophy P616
A. Mursa (Bucharest, RO)

High variability of dynamic obstruction in a patient with hypertrophic obstructive cardiomyopathy and tako-tsubo-cardiomyopathy P617
B. Pfeiffer (Schweinfurt, DE)

Arterio-venous pulmonary fistula in patient after cerebral stroke P618
A. Tomaszewski (Lublin, PL)

Rapid myocardial calcification in acute sepsis P619
S. Cuddy (-, IE)

Acute right heart failure after delivery in patient with new-diagnosed pulmonary arterial hypertension P620
A. Giubertoni (Novara, IT)

When the right ventricle plays hide-and-seek P621
N. Rojo Pheo (Leon, ES)

Adult congenital heart disease: when what grows wrong goes wrong P622
C. Ruivo (Leiria, PT)

Prenatal diagnosis of mixed type total anomalous pulmonary venous connection in asplenia P623
M. Saito (Kokubunji, JP)

Uncorrected single ventricle in an adult patient: do coexisting valvular abnormalities matter? P624
D.M. Dorobantu (Bucharest, RO)

Ventricular septal aneurysm associated with bicuspid aorta: a case report P625
H.S. Kemal (Larnaca, CY)
<table>
<thead>
<tr>
<th>Poster session 3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>The imaging examination and quality assessment</strong></td>
</tr>
<tr>
<td><strong>Value of mitral and tricuspid annular displacement to assess the interventricular systolic relationship in severe aortic valve stenosis</strong>: a Pilot study.</td>
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<td><strong>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.</strong></td>
</tr>
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<td>D.N.S. Senaratne, K. Thomas, C. Townsend, S. Wheeler, J. Jacobson, E. Kall, B. Bull (Reading, GB)</td>
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<tr>
<td><strong>The tricuspid valve: identification of optimal view for assessing for prolapse</strong></td>
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<tr>
<td>N.K. Preston, L. Lring (Bury St Edmunds, GB)</td>
</tr>
</tbody>
</table>

**Assessment of morphology and function**

| Right atrial volume by two-dimensional echocardiography in healthy subjects |
| P629 |
| F. Ferrara, L. Gargani, L. Carannante, V. Russo, M.Dalto, A.M. Marra, A. Cittadini, A.D. Andreo, O. Vriz, E. Bossone (Salerno, Pisa, Napoli and San Daniele del Friuli, IT) |
| **Disturbance of inter and intra atrial conduction assessed by tissue doppler imaging in patients with medially controlled hypertension and prehypertension.** |
| P630 |
| D. Djikic, N. Mjovbic, B. Dejanovic, V. Peric, M. Marinovic, N. Jankovic, B. Orlovic, D. Simc (Belgrade and Pristina, RS) |
| **Liver stiffness by shear wave elastography, new noninvasive and quantitative tool for acute variation estimation of central venous pressure in real-time?** |
| P631 |
| O. Villenon, F. Stefaone, M. Pernot, G. Malekzadeh-Milani, J. Baranger, D. Bonnet, Y. Boudjemline (Paris, FR) |

**Weak atrial kick contribution is associated with a risk for heart failure decompensation**

| **Usefulness of wave intensity analysis in predicting the response to cardiac resynchronization therapy** |
| P633 |
| **Early subclinical left ventricular systolic and diastolic dysfunction in gestational hypertension and preeclampsia** |
| P634 |
| N. Patrascu, D.J. Mihalcea, S. Mihaila, L. Lungeanu, L.F. Trasca, R. Bruja, M.S. Neag, S. Albu, M. Cristiuoi, D. Vineranu (Bucharest, RO) |

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

| P635 |
| N. Benyoune, C. Van Der Vynck, 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. Jurcute, U. Mo, R. Bade, P. Platom, A. Calin, C.C. Beladan, M. Rosca, C. Ginghina, B.A. Popescu (Bucharest, RO) |

**Prediction of right ventricular failure after left ventricular assist device implant: assessing usefulness of standard and strain echocardiography**

| P637 |

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

| P638 |
| M. Sundaqvist, A. Salmon, P. Tomvall, M. Ugander (Stockholm, SE) |

**Ischaemic heart disease**

**Evaluation of coronary flow velocity by Doppler echocardiography in the treatment of hypertension with the ARB: correlation to the histological cardiac fibrosis**

| P639 |
| C. Wei-Ting, Z.C. Chen, J.J. Wang, S. Fisch, R.L. Liao (Taian, 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. Tironis, J. Byrne, K. Affalke, M.J. Monaghan (London, GB) |

**Effects of intermediate stenosis of left anterior descending coronary artery on survival in patients with chronic total occlusion of right coronary artery**

| P641 |

**Left ventricular remodeling after a first myocardial infarction in patients with preserved ejection fraction at discharge**

| P642 |

**Left atrial size and acute coronary syndromes. Let is make simple.**

| P643 |

**Influence of STEMI reperfusion strategy on systolic and diastolic function.**

| P644 |
| J. Nieto Tolosa, F.J. Cambreron Sanchez, E. Pinar Bermudez, J.R. Girones Blanes, G. De La Morena Valenzuela, L.G. De Mucia Mencia, ES |

**Heart valves**

**Aortic valve resistance risk-stratifies low-gradient severe aortic stenosis**

| P645 |

**Does permanent pacemaker implantation complicate the prognosis of patients after transcatheter aortic valve implantation?**

| P646 |

**Influence of metabolic syndrome and diabetes on progression of calcific aortic valve stenosis - The COFRASA - GENERAC Study**

| P647 |
Low referral for aortic valve replacement accounts for worse long-term outcome in low versus high gradient severe aortic stenosis with preserved ejection fraction.  
Y.J. Mo, T. Ondrus, G. Van Camp, G. Di Gioia, E. Barbato, J. Bartunek, M. Penicka (Aalst, BE)

The impact of right ventricular function from aortic valve replacement: A randomised study comparing minimally invasive aortic valve surgery and conventional open heart surgery.  
N. Hashemi, J. Johnsson, A. Gomez, M. Alam, R. Winter (Stockholm and stockholm, SE)

Influence of fetuin-a level on progression of calcific aortic valve stenosis. The COFRASA - GENERAC Study.  
N. Kubota, D.M.Z. David Messika-Zeitoun (Paris, FR)

Common carotid artery remodeling I year after aortic valve surgery.  

Echocardiographic characteristics of post-TAVI thrombosis and endocarditis: single-centre experience.  
M. Sarteria, M. Barletta, F. Ancona, I. Rosa, S. Stefa, C. Marin, M. Montorfano, A. Latto, O. Afieri, A. Margonato, A. Colombo, E. Agricola (Milan, IT)


Mitral regurgitation during interventional valve repair: correlation between haemodynamic parameters and 3D color Doppler echocardiography.  

Cardiomyopathies  
Left ventricular contractile reserve by stress echocardiography as a predictor of response to cardiac resynchronization therapy in heart failure: a meta-analysis.  
Q. Campi, C. Carpegiati, C. Michelassi, B. Villari, E. Picano (Benevento and Pisa, IT)

Regardless of the definition used, left ventricular reverse remodeling is not different in fibrosis positive and negative dilated cardiomyopathy patients.  
S. Wisniowska-Smalek, P. Rubis, B. Biernacka-Fjalkowska, E. Dziewiecka, L. Khachatrian, P. Faltyn, A. Lesniak-Sobelga, M. Hlawaty, M. Kostkievicz, P. Podolec (Krakow, PL)

Heterogeneity of LV contractile function by multidimensional strain in patients with EF>35%: Insights for the hemodynamic burden.  

Abilility of 99mTC-DPD scintigraphy to predict conduction disorders requiring permanent pacemaker in patients with thyrotrhipy-related cardiac amyloidosis.  

Provocation of left ventricular outflow tract obstruction using nitrile inhalation in hypertrophic cardiomyopathy: relation to electromechanical delay.  
W. Hamed, H.M.B. Badran, R.I.Y. Yaseen, M.A.G.D.Y. Yacob (Shebin El-kom, EG; London, GB)

Could echocardiographic features differentiate Fabry cardiomyopathy from sarcromic forms of hypertrophic cardiomyopathy?  

Pregnancy is well tolerated in women with arrhythmogenic right ventricular cardiomyopathy.  
A.I. Castrini, I.S. Leren, M.E. Estensen, L.G. Klaeboe, T. Edvardsen, K.H. Haugaa (Brescia, IT; Oslo, NO)
Glycogen storage cardiomyopathy (PRKAG2): do particular echocardiography findings in established and advanced techniques are helpful in suggesting the diagnosis? W. Costa Santos, J.L.B. Pena, I.H. Sampaio, M.H.A. Siqueira, M.C. Alves, E.B. Stemnick (Belo Horizonte, BR) P672


Clinical presentation, echocardiographic findings and complications in patients with typical and atypical form of takotsubo cardiomyopathy M. Budnik, J. Kochanowski, R. Piatkowski, K. Wojtora, G. Opolski (Warsaw, PL) P674

Systemic diseases and other conditions


Endothelial dysfunction: the link between arterial hypertension, diabetes mellitus and heart disease A.-M. Vintila, V. Vintila, I. Bruckner (Bucharest, RO) P676

Dynamic changes of arterial stiffness evaluated by cardiac-ankle vascular index (CAVI) during the growth and development of children and adolescents T. Jurko, A.J.R. Jurko, A. Jurko, M. Mestanik, A. Mestanikova, I. Tonhajzerova (Martin, SK) P677


Early detection and prediction of CHOP-induced cardiotoxicity in non-Hodgkin lymphoma by 4D echocardiography, vascular ultrasound, and cardiac biomarkers D. Mihalcea, M. Florescu, A.M. Vadaresanu, D. Vineareanu (Bucharest, RO) P679


Electrocardiographic criteria for atria enlargement are not useful in the evaluation of junior high-dynamic high-static athletes M. Konopka, K. Burkhard-Jagodzinska, A. Jakubiak, W. Krol, A. Klusiewicz, R. Zdanowicz, D. Sitkowski, M. Dzuziewski, W. Braksator (Warsaw, PL) P681

Prognostic value of right ventricle, pulmonary arterial pressure and biomarkers in patients with acute heart failure: one year follow up M. Deljanin Illic, D. Petrovic, S. Stojanovic, S. Illic, R. Kocic (Niska Banja and Nis, RS) P682

One-point carotid stiffness parameters by echo-tracking method in a wide-age range of healthy population. A single center experience O. Vritez, M. Pirisi, J. Magne, V. Aboyans, R. Minisini, E. Bossone (San Daniele del Friuli, Novara and Salerno, IT; Limoges, FR) P683

Congenital heart disease

Role of bidimensional speckle tracking longitudinal strain in the evaluation of right and left ventricular function in adult patients with transposition of the great arteries A.T. Timoteo, L. Moura Branco, S.A. Rosa, A. Galrinho, L. Sousa, J.A. Oliveira, A. Agapito, R.C. Ferreira (Lisbon, PT) P684

Diseases of the aorta

Interfaces between FBN1 gene polymorphism and biomechanical parameters estimated by speckle-tracking echocardiography of dilative pathology of ascending aorta M. Biseviene, V. Mazzine, J.J. Vaskelyte, J. Lekakis (Athens, GR) P685

Stress echo


Stress echo in Italy: state-of-the art 2015 Q. Ciampi, R. Citro, S. Severino, G. Labanti, L. Cortigiani, R. Sicari, M. Gallerisi, E. Bossone, P. Colonna, E. Picano (Benevento, Salerno, Naples, Bologna, Lucca, Pisa and Bari, IT) P687

The declining frequency of Inducible myocardial ischemia during stress echocardiography over 27 consecutive years (1983-2009) C. Carpeggiani, P. Landi, C. Michelassi, R. Sicari, E. Picano (Pisa, IT) P688

Global longitudinal strain can unmask inducible myocardial ischemia at submaximal heart rate during dobutamine stress echocardiography C. M. Van De Heyning, R. B. Thiemann, H. Heuten, B. Shivalkar (Antwerp, Bé) P689

Low risk syntax score predicted by wall motion score index during dobutamine stress echocardiography H.A. Zainal Abidin, J. Ismail, S. Kasim (Selangor, MY) P690

Outdoor stress echo by lung ultrasound for subclinical detection of high altitude pulmonary edema with B-lines L. Pratali, G. Giardini, M. Cavana, E. Picano (Pisa, Aosta and Trento, IT) P691
Transesophageal echocardiography
Predictors and consequences of infective endocarditis with perivalvular extension - a subgroup with worse short and medium-term prognosis
M. Coutinho Cruz, R. Ilhao Moreira, L. Moura Branco, A. Galinho, L. Coutinho Miranda, A.T. Timoteo, J. Abreu, P. Modas Daniel, J. Fragata, R. Cruz Ferreira (Lisbon, PT)
Analysis of left atrial auricle morphology and function to detect considerable risk factors regarding the prevention of stroke
LAA closure - does size really matter?
Real assessment of mitral regurgitation by three-dimensional transesophageal echocardiography
G. Pereira, M. Lombardo, R. Henquin, C. Izuriet, M.C. Corneli (Buenos Aires, AR)

Contrast echocardiography
Myocardial contrast dobutamine stress echocardiography for detection of coronary artery disease
O. Tereshina (Samara, RU)

Tissue Doppler and speckle tracking
New indices for a best quantification of left ventricular function in heart valve diseases
A. Hubert, E. Galli, G. Bouzilé, E. Samset, E. Donal (Rennes, FR; Oslo, NO)
Intratubation comparison of three echocardiographic techniques of determination of left ventricular (LV) longitudinal strain, and evaluation of their respective relationship to ejection fraction
D. De Zuttere, H. Lardoux, R. Rocha, A. Kone, P. Meimon (Levallois-Perret and Compiègne, FR)
Myocardial strain as an early marker of cardiac dysfunction in a large cohort of anthracycline-treated pediatric cancer survivors?
M.G. Sieker, C. Fackoury, C. Slorach, W. Hui, P. Liu, P.F. Kantor, S. Mital, G. Raczk (Toronto, Ottawa and Edmonton, CA)
Resting 2D speckle tracking echocardiography for the prediction of death 5 years after ST-elevation myocardial infarction
E. Szymczyk, P. Lipiec, B.W. Michalski, K. Szymczyk, J.D. Kasprzak (Lodz, PL)
Use of fully automated software to quantify left ventricular ejection fraction and left ventricular global longitudinal strain
V. Sokalski, P. Aruta, D. Cherata, D. Muraru, L.P. Badano (Padua, IT)
Can two-dimensional speckle tracking echocardiography be useful for the left ventricular assessment in the early stages of hereditary hemochromatosis?
L. Danilowicz-Szymanowicz, M. Fialkovski, K. Rozwadowska, D. Kaufmann, K. Sikorska, R. Galaska, G. Raczk (Gdansk, PL)
Assessment of left ventricular ejection fraction, global longitudinal strain and mechanical dispersion in acute myocardial infarction after revascularization with percutaneous coronary intervention
T.M. Nguyen, D. Melichova, B. Grenne, B. Sjoli, O.A. Smiseth, K.H. Haugaa, T. Edvardsen, H. Brunvand (Kristiansand, Trondheim and Oslo, NO)
Echocardiographic predictors of worse outcome in patients with Ischaemic chronic heart failure and renal dysfunction
D. Lashkul (Zaporizhzhya, UA)
Impact of volume overload on right ventricular systolic and diastolic functions evaluated by speckle tracking echocardiography
S. Ulna, A. Sahinianlan, G. Gokalp, O. Seckin, A. Cengel (Leuven, BE; Ankara, TR)
Detection and localisation of obstructive coronary artery disease in chronic stable angina by myocardial deformation parameters using tissue doppler imaging
R.R. Dandu, D. Raja, S. Kumar, N. Garg, S. Tewari, A. Kapoor, P.K. Goel (Lucknow, IN)
The determinants of deleterious effects of diabetes on the myocardium
M.G.M. Gouda (Zagazig, EG)
Echocardiographic evaluation of the left atrium function after catheter ablation of long-standing persistent atrial fibrillation.
A.I. Kazakov (Saint Petersburg, RU)
Early assessment of chemotherapy-related cardiovascular toxicity: an integrated evaluation through global longitudinal strain and arterial stiffness study
C. Zito, M.D. Angel, M.G. Daffina, M. Zucco, R. Costantino, R. Manganaro, L. Longobardo, F. Alberio, M. Cusma Piccione, G. Nucifora, A. Caprino, M.L. Careno, F. Antonini Canterin, O. Vriz, S. Careno (Messina, Pordenone and San Daniele del Friuli, IT)
Prognostic value of right atrial 3-dimensional speckle tracking in different types of pulmonary arterial hypertension
E. Cambronero Cortinas, J. Grapsa, V. Queirolo, M.J. Corbi-Pascual, W. Gin-Sing, D. Dawson, L. Howard, F. Ridocco-Soriano, S. Gibbs, P. Nihoyannopoulos (London, GB; Alicante, Albacete and Valencia, ES)
Assessment of biventricular strain by 3-dimensional speckle-tracking echocardiography in chronic aortic regurgitation
L. Capotosto, R. Ashurov, E. Mangieri, C. Gaudio, A. Vitarelli (Rome, IT)
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Friday Sessions
**EACVI Imaging Campus - HIT Session**

*EACVI HIT (Heart Imagers of Tomorrow)*

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Description</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00 - 10:30</td>
<td><strong>EACVI HIT workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners</strong></td>
<td>H.M. Mahmoud (Aswan, EG); B.W. Michalski (Ksawerow, PL); S. Wright (London, GB)</td>
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<tr>
<td>11:00 - 12:30</td>
<td><strong>EACVI HIT workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners</strong></td>
<td>J. Grapsa (London, GB); K.F. Fox (London, GB); A. Smith (Barnet, GB)</td>
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<tr>
<td>14:00 - 15:30</td>
<td><strong>EACVI HIT workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners</strong></td>
<td>M. Cameli (Certaldo, IT); M. Garbi (London, GB); B. Martin (London, GB)</td>
</tr>
<tr>
<td>16:00 - 17:30</td>
<td><strong>EACVI HIT workshop on Transoesophageal Echocardiography (TOE) for beginning practitioners</strong></td>
<td>M.H. Miglioranza (Porto Alegre, BR); G. Tavazzi (Pavia, IT); S. Giannaris (London, GB)</td>
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</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>09:00 - 10:30</td>
<td>Imaging of cardiac anatomy</td>
<td>F.F. Faletra (Lugano, CH)</td>
<td>751</td>
</tr>
<tr>
<td>11:00 - 12:30</td>
<td>Imaging of cardiac anatomy</td>
<td>F.F. Faletra (Lugano, CH)</td>
<td>1221</td>
</tr>
<tr>
<td>14:00 - 15:30</td>
<td>Imaging of cardiac anatomy</td>
<td>F.F. Faletra (Lugano, CH)</td>
<td>862</td>
</tr>
<tr>
<td>16:00 - 17:30</td>
<td>Imaging of cardiac anatomy</td>
<td>F.F. Faletra (Lugano, CH)</td>
<td>868</td>
</tr>
</tbody>
</table>
### Friday 9 December 2016 - Morning Sessions

#### Imaging in aortic regurgitation

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker(s)</th>
</tr>
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<tbody>
<tr>
<td>08:30</td>
<td>MMI Workflow for the quantification of AR.</td>
<td>D. Montaigne (Lille, FR)</td>
</tr>
<tr>
<td>08:52</td>
<td>Aortic regurgitation in adult congenital heart disease.</td>
<td>S. Kutty (Omaha, US)</td>
</tr>
<tr>
<td>09:15</td>
<td>Imaging for the management of paravalvular aortic regurgitation.</td>
<td>A. Sage (Petah Tikva, IL)</td>
</tr>
<tr>
<td>09:37</td>
<td>MMI of the left ventricle in aortic regurgitation.</td>
<td>E. Galli (Avignon, FR)</td>
</tr>
</tbody>
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#### Clinical imaging in heart failure

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>08:30</td>
<td>HFpEF and HFrEF, 2 opposite entities or a continuum?</td>
<td>A.G. Fraser (Cardiff, GB)</td>
</tr>
<tr>
<td>08:52</td>
<td>Myocardial fibrosis.</td>
<td>K. Hyung-Kwan (Seoul, KR)</td>
</tr>
<tr>
<td>09:15</td>
<td>Importance of geometry in heart failure.</td>
<td>J. Schulz-Menger (Berlin, DE)</td>
</tr>
<tr>
<td>09:37</td>
<td>Imaging and new treatments for heart failure.</td>
<td>T.G. Von Lueder (Oslo, NO)</td>
</tr>
</tbody>
</table>

#### Don't we need an additional plane?

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>08:30</td>
<td>Why we need 3D in assessing ventricles.</td>
<td>N. Watanabe (Miyazaki, JP)</td>
</tr>
<tr>
<td>08:52</td>
<td>3D in mitral valve.</td>
<td>M. Pepi (Milan, IT)</td>
</tr>
<tr>
<td>09:15</td>
<td>3D in aortic valve.</td>
<td>A. Gackowski (Krakow, PL)</td>
</tr>
<tr>
<td>09:37</td>
<td>3D in right-sided heart valves.</td>
<td>J.D. Kasprzak (Lodz, PL)</td>
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#### The best of Heart Imagers of Tomorrow (HIT)

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>3D echocardiography and strain.</td>
<td>S. Stoebe (Leipzig, DE)</td>
</tr>
<tr>
<td>08:52</td>
<td>Cardiac magnetic resonance.</td>
<td>T. Podlesnikar (Maribor, SI)</td>
</tr>
<tr>
<td>09:15</td>
<td>Stress imaging.</td>
<td>D. Morrone (Pisa, IT)</td>
</tr>
<tr>
<td>09:37</td>
<td>Imaging in critical care.</td>
<td>H. Soliman (Abu Dhabi, AE)</td>
</tr>
</tbody>
</table>
### Friday 9 December 2016 - Morning Sessions

**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

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>08:30</td>
<td>Imaging before and after cardiac rehabilitation in which mitralclip patients?</td>
<td>F. Schnell (Rennes, FR)</td>
</tr>
<tr>
<td>08:52</td>
<td>Imaging before and after cardiac rehabilitation in which TAVI patients?</td>
<td>J.P. Schmid (Bern, CH)</td>
</tr>
<tr>
<td>09:15</td>
<td>Effect of cardiac rehabilitation on systolic function after valve surgery?</td>
<td>Q. Ciampi (Benevento, IT)</td>
</tr>
<tr>
<td>09:37</td>
<td>State of the art in imaging for cardiac rehabilitation after valve intervention.</td>
<td>P. Faggiano (Brescia, IT)</td>
</tr>
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**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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
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</tr>
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<tbody>
<tr>
<td>08:30</td>
<td>How to stress the congenitally malformed heart? An overview of different modalities.</td>
<td>L. Mertens (Toronto, CA)</td>
</tr>
<tr>
<td>08:52</td>
<td>Stressing the left ventricle.</td>
<td>W. Border (Atlanta, US)</td>
</tr>
<tr>
<td>09:15</td>
<td>Stressing the right ventricle.</td>
<td>W.A. Helbing (Rotterdam, NL)</td>
</tr>
<tr>
<td>09:37</td>
<td>Stressing the single ventricle.</td>
<td>W.A. Helbing (Rotterdam, NL)</td>
</tr>
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**Teaching Course STRAUSS**

**Advanced echo technique I: 3D echo**

Chairpersons: H.J. Nesser (Linz, AT); T. Kolias (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.*

<table>
<thead>
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<th>Time</th>
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<th>Speaker</th>
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</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Assessment of left ventricular shape and function.</td>
<td>O. Kamp (Amsterdam, NL)</td>
</tr>
<tr>
<td>08:52</td>
<td>Assessment of right ventricular shape and function.</td>
<td>T. Kukulsz (Zabrze, PL)</td>
</tr>
<tr>
<td>09:15</td>
<td>The left atrium in 3D.</td>
<td>A. Franke (Hannover, DE)</td>
</tr>
<tr>
<td>09:37</td>
<td>Valve morphology; normal and pathological.</td>
<td>M. Garbi (London, GB)</td>
</tr>
</tbody>
</table>
Friday 9 December 2016 - Morning Sessions

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** Panel of experts: B.L.M. Gerber (Woluwe-St. Lambert, BE); S. Kapetanakis (London, GB)
- **08:30** Quantification of aortic regurgitation by pulsed Doppler examination of the left subclavian artery velocity contour: a validation study with cardiac magnetic resonance imaging
- **08:41** Diastolic retrograde flow in the descending aorta by cardiovascular magnetic resonance imaging for the quantification of aortic regurgitation
- **08:52** Native T1 relaxation time can accurately identify limited left ventricular contractile reserve in patients with aortic stenosis
  - T. Ondrus, D.C. Minica, M. Kotrc, R. Kockova, G. Van Camp, Y. Mo, A. Praveckova, M. Penicka (Aalst, BE; Prague, CZ)
- **09:03** The validation and assessment of myocardial fibrosis by using cardiac magnetic resonance and speckle-tracking echocardiography in severe aortic stenosis
- **09:15** Clinical validation of a semi-automatic quantification score of aortic valve calcification with ultrasound
  - K. Gillis, G. Bala, B. Roosens, S. Hernot, I. Remory, S. Droogmans, B. Cosyns (Brussels, BE)
- **09:26** A comparison among conventional 3D-transesophageal echocardiography manual analysis, 3D automatic software analysis and computed tomography for the aortic annulus sizing in TAVI patients
  - L. Italia, G. Geremia, S. Stella, C. Marini, I. Rosa, F. Ancona, A. Latib, M. Montorfano, A. Colombo, A. Margonato, E. Agnolotti (Milan, IT)
- **09:37** 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
- **09:48** Multimodality imaging monitoring during percutaneous tricuspid valve repair procedures

08:30 - 10:00 Special Session AGORA

**Innovation 1**

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

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

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

10:00 - 11:00 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** Presenter.
  - A.G. Fraser (Cardiff, GB)
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 world.
  - W. Mullens (Genk, BE)

- **11:22** Optimizing benefits from Cardiac Resynchronisation Therapy: lead positioning in the era of multimodality imaging.
  - V. Delgado (Leiden, NL)

- **11:45** Novel tools to evaluate left ventricular dyssynchrony.
  - O.A. Smiseth (Oslo, NO)

- **12:07** What future for myocardial imaging in Cardiac Resynchronisation Therapy.
  - E. Donal (Rennes, FR)

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?
  - J.M. Knuuti (Turku, FI)

- **11:22** Imaging the vulnerable plaque: the Holy Grail?
  - D. Vancraeynest (Brussels, BE)

- **11:45** Place of imaging in functional testing for in Ischaemic heart disease 2016.
  - O. Gaemperli (Zurich, CH)

- **12:07** Imaging inflammation and cardiac remodelling.
  - M. Lombardi (San Donato Milanese, IT)

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.
  - C. Piorkowski (Dresden, DE)

- **11:22** Imaging a patient with syncope.
  - J. Kautzner (Prague, CZ)

- **11:45** Imaging a patient with bradycardia.
  - W. Jaber (Cleveland, US)

- **12:07** Imaging a patient with bundle branch block.
  - O.A.B. Breithardt (Kassel, DE)

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-Golfin (Madrid, ES); A. Klein (Cleveland, US)

- **11:00** A must in TAVI.
  - A. Bernard (Tours, FR)

- **11:22** A must in mitral interventions.
  - P. Debonnaire (Brugge, BE)

- **11:45** A must in LAA closure.
  - S. Mankad (Rochester, US)

- **12:07** A must in leak closure.
  - V. Rigolin (Chicago, US)
Friday 9 December 2016 - Morning Sessions

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. 772
R.O. Jurcut (Bucharest, RO)

11:22 Asymptomatic patient with inconsistencies between left ventricular ejection fraction and deformation imaging parameters post chemotherapy. 773
D. Miothy (Limoges, FR)

11:45 Symptomatic patient with inconsistencies between left ventricular ejection fraction and deformation imaging parameters post chemotherapy. 774
J.C. Plana (Houston, US)

12:07 Valvular heart disease in an oncologic patient. 775
R.E. Dulgheru (Liege, BE)

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. 776
S. Price (London, GB)

11:22 Focus is not enough. Contra. 777
S. Price (London, GB)

11:45 Early intervention in asymptomatic primary MR - Go for it. Pro. 778
M.L. Enriquez-Sarano (Rochester, US)

12:07 Early intervention in asymptomatic primary MR - I prefer to wait. Contra. 779
M.L. Enriquez-Sarano (Rochester, US)

11:00 - 12:30 Teaching Course STRAUSS

Valvular Heart Disease 1

Chairpersons: A. Varga (SZEGERED, HU); F. Antonini-Canterin (PORDONE, 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. 780
A. Calin (Bucharest, RO)

11:22 Mitral regurgitation assessment. 781
C. Zito (Messina, IT)

11:45 Aortic regurgitation assessment. 782
A. Soufiani (Rabat, MA)

12:07 Grading mitral stenosis. 783
T. Binder (Vienna, AT)
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 - 12:30 Rapid Fire Abstract AGORA

**Great cardiac arteries pathology**

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

**11:00**

**Panel of experts:**
- G. Athanassopoulos (Pireas, GR); I. Stankovic (Belgrade, RS)

**Correlations between genetic mutations, biomolecular patterns and elastic properties of the aorta in patients with bicuspid aortic valve.**

**11:11**

**The Agatston score of the descending aorta is an independent predictor of future coronary artery disease on top of coronary Agatston score in a low-risk population.**

**11:22**

**Echocardiographic aortic size distribution and prognosis in outpatients without valvular heart disease.**

**11:33**

**Prognostic relevance of the pulmonary artery diameter in relation to the ascending aorta.**

**11:45**

**A dilative pathology of ascending aorta: interfaces between histological and echocardiographical features.**
- M. Bieseviciene, J.J. Vaskelyte, V. Lesauskaite, V. Mizariene, M. Kupryte, R. Jonkaitiene, R. Verseckaite (Kaunas, LT)

**11:56**

**Acute effects of air pollution on pulmonary hemodynamics: new evidences from both population and individual level studies.**
- J.F. Argacha, A. Wauters, S. Droogmans, P. Van De Borne, J.L. Vachiery, B. Cosyns (Brussels, BE)

**12:07**

**The dynamic assessment of alveolar-capillary barrier during sub-clinical high-altitude pulmonary edema.**
- L. Pratali, G. Giardini, L. Bastiani, B. Catuzzo, R.M. Bruno, E. Picano (Pisa and Aosta, IT)

**12:18**

**The influence of the V-wave on the diastolic pulmonary pressure gradient in pulmonary hypertension due to left heart disease.**
- A.I. Nagy, A.I. Venkateshwaran, B. Merkely, L.H. Lund, A. Manouras (Budapest, HU; Bangalore, IN; Stockholm, SE)
**Satellite Symposium**

**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 Introduction.  
M. Boehm (Homburg/Saar, DE)  

12:50 How to integrate imaging modalities in clinical practice.  
O. Gaemperli (Zurich, CH)  

13:05 Left ventricular remodeling with ivabradine: data from the SHIFT study.  
M. Boehm (Homburg/Saar, DE)  

13:20 How imaging can help to manage the Ischaemic heart disease patient.  
O. Franca (Curitiba, BR)  

13:35 Conclusion.  
P. Lancellotti (Liege, BE)

**Clinical Case**

**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 Panel of experts:  
M. Cohen (Philadelphia, US); A. Frigiola (London, GB)  

12:45 Late diagnosis of double chambered right ventricle in an adult: diagnostic pitfalls and the role of multimodality imaging  
L.A. Mandes (Constanta, RO)  

12:55 Anomalous origin of left pulmonary artery from ascending aorta: an unusual cause of cardiac failure  
Y.M. Sedky (Cairo, EG)  

13:05 An uncommon cause of right ventricular failure  
S. Aguiar Rosa (Lisbon, PT)  

13:15 Staged severe evolution and treatment dilemmas in a patient with Marfan syndrome  
C. Militaru (Bucharest, RO)  

13:25 A rare presentation of coarctation of the aorta: transient ischemic attack due to thrombus formation in the coarcted segment which was treated with oral anticogulation  
M. Kalck (Corum, TR)  

13:35 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  
S. Cuddy (-, IE)
Friday 9 December 2016 - Lunchtime Sessions

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
A.A.M. Faggag, F. Sorour, M.A. Salem, S. Bakhoun (Cairo, EG)  P806

Assessment of diastolic heart function with multi-detector computed tomography (MDCT)
A. Mustafa, S. Shahn, 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.

Presence and extent of cardiac CT angiography defined coronary artery disease in patients presenting with syncope

Dobutamine stress myocardial perfusion imaging by SPECT adds incremental prognostic value across a high risk cohort
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

Low dose computed tomography angiography for evaluation of the thoracic aorta and coronary arteries using 160 mm detector coverage and iterative reconstruction algorithm
A. Annoni, A. Formenti, E. Mancini, S. Musthag, 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

**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
R. Enache, E. Popa, R. Jurcut, R. Badea, A. Calvin, 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
N. Sawada, T. Kawata, M. Daimon, K. Kinura, 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

Normal values for 3D-right atrial volumes : results from the SKIPOGH-II population study

Assessment of right ventricular function by free wall longitudinal strain in organic mitral regurgitation

Importance of radial dysfunction to determine the impairment of right ventricular ejection fraction in patients with pulmonary hypertension

Influence of tricuspid regurgitation severity on non-invasive assessment of right heart hemodynamics: a simultaneous echocardiography-catheterization study

Right ventricular failure following ventricular assist device implant: systematic review and meta-analysis of clinical and echocardiographic predictors
### 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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>14:00</td>
<td>AV interventional: the place of imaging in the guidelines. 823</td>
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<tr>
<td>14:22</td>
<td>Role of the imager in the heart team? 824</td>
</tr>
<tr>
<td>14:45</td>
<td>Not every prosthesis are equal: imaging still a role in aortic valve surgery. 825</td>
</tr>
<tr>
<td>15:07</td>
<td>Imaging in complications after AV intervention. 826</td>
</tr>
</tbody>
</table>

#### Clinical Imaging
**BACH**

#### Imaging in atrial fibrillation: from diagnosis to treatment

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

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<th>Time</th>
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<tr>
<td>14:00</td>
<td>VHD in atrial fibrillation. 827</td>
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<tr>
<td>14:22</td>
<td>Ventricular function in atrial fibrillation 828</td>
</tr>
<tr>
<td>14:45</td>
<td>Is CHAD2 VASC2 enough or do I need imaging. 829</td>
</tr>
<tr>
<td>15:07</td>
<td>Cardiac imaging in the era of DOACS (Direct Oral Anticoagulant’s). 830</td>
</tr>
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#### 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)

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<th>Time</th>
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<tbody>
<tr>
<td>14:00</td>
<td>Basics in myocardial deformation. 831</td>
</tr>
<tr>
<td>14:22</td>
<td>3D Strain: ready for prime time. 832</td>
</tr>
<tr>
<td>14:45</td>
<td>Strain in cardiac genetic disease. 833</td>
</tr>
<tr>
<td>15:07</td>
<td>Usefulness of strain when left ventricular ejection fraction is preserved. 834</td>
</tr>
</tbody>
</table>
### 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.

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<tr>
<td>14:00</td>
<td>Euroecho Lecture: &quot;Cardiac imaging in the era of precision medicine&quot;. 835</td>
<td>P.P. Sengupta (New York, US)</td>
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<tr>
<td>14:45</td>
<td>JSE: Young Investigator Awardee presentation: “Insufficient leaflet remodeling causes mitral regurgitation in patients with atrial fibrillation”. 837</td>
<td>N. Kagiyma (Okayama, JP)</td>
<td></td>
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<tr>
<td>15:07</td>
<td>AAE: Young Investigator Awardee presentation: “Device Sizing for Transcatheter Left Atrial Appendage Occlusion Using 3D Transesophageal Echocardiography and 3D Printing”. 838</td>
<td>Y. Fan (Hong Kong, HK)</td>
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</tbody>
</table>

### 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)

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

### 14:00 - 15:30 Symposium SCHUMANN

**Aortic coarctation: multimodality assessment and follow-up**

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

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<tr>
<td>14:00</td>
<td>Imaging before and after coarctation intervention and repair. 843</td>
<td>J. Saundankar (London, GB)</td>
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<tr>
<td>14:22</td>
<td>How to follow the adult patient after CoA repair in clinical practice. 844</td>
<td>A. Frigola (London, GB)</td>
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<tr>
<td>14:45</td>
<td>Cardiac mechanics after CoA repair.</td>
<td>L. Mercer-Rosa (Philadelphia, US)</td>
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<tr>
<td>15:07</td>
<td>Stress imaging in coarctation.</td>
<td>B. Cifra (Toronto, CA)</td>
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### 14:00 - 15:30 Teaching Course STRAUSS

**Valvular Heart Disease 2**

Chairpersons: G.L. Nicolosi (Cordenons, IT); C. Ginghina (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.

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<tr>
<td>14:00</td>
<td>Prosthesis valve dysfunction.</td>
<td>W.A. Zoghbi (Houston, US)</td>
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<tr>
<td>14:22</td>
<td>Percutaneous prosthesis valve dysfunction: paravalvular leak and hemodynamic deterioration. 848</td>
<td>A. Sagie (Petah Tikva, IL)</td>
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<tr>
<td>14:45</td>
<td>Assessment of endocarditis: what are the guidelines telling us? 849</td>
<td>C. Erol (Ankara, TR)</td>
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<tr>
<td>15:07</td>
<td>Right-sided valve disease assessment.</td>
<td>I. Stankovic (Belgrade, RS)</td>
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</tbody>
</table>
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  Panel of experts:
M. Motwani (Los Angeles, US); S. Stoebe (Leipzig, DE)

14:00  A rare cause of severe chest pain and sustained ventricular tachycardia during a football game
M. Arzanauskaite (London, GB)

14:10  Thrombosed iliac venous aneurysm as a extremely rare source of pulmonary thromboembolism
J. Bereda (Gdansk, PL)

14:20  3D transesophageal echo: guide to anticoagulation therapy after surgical closure of the left atrial appendage
A. Cecchetto (Negrar, IT)

14:30  A unusual case of giant coronary aneurysm: role of multimodality imaging in the diagnosis and follow-up
F. Casadei (Lavezzola, IT)

15:00  Myocardial cleft in a patient with acute coronary syndrome assessed by multimodal imaging
S. Bartolome Mateos (Parla, ES)

15:10  A rare case of subacute left atrial dissection
A. Lavorgna (Teramo, IT)

15:20  A case of pulmonary sarcoidosis with severe precapillary pulmonary hypertension and extrinsic compression of the pulmonary artery
M.P. Huitema (Nieuwegein, NL)

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  Presenter:
N. Tzemos (Glasgow, GB)

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  Early role of imaging after sudden cardiac death in ischaemic disease, role of MMI.
G. Pontone (Milan, IT)

16:52  Early role of imaging after sudden cardiac death in non ischaemic disease.
A.M.G. Almeida (Lisbon, PT)

17:15  Role of imaging in the critically ill after sudden cardiac death.
S. Price (London, GB)

17:37  The role of imaging late after sudden cardiac death: can imaging help in secondary prevention.
D.G.R. Kerkhove (Jette, BE)
Friday 9 December 2016 - Afternoon Sessions

16:30 - 18:00 Clinical Imaging BACH

**Clinical imaging in hypertension**

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

16:30  Recommendation on the use of echocardiography in adult hypertension.  
P.N. Marino (Novara, IT)  
16:52  The traditional echocardiography assessment of hypertensive heart.  
S. Carejo (Messina, IT)  
17:15  How to integrate longitudinal strain in the assessment of hypertension.  
M. Galdieresi (Naples, IT)  
17:37  Imaging the effect of anti hypertensive treatment on the heart.  
L. Gargani (Pisa, IT)

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  Tips and tricks.  
E. Donal (Rennes, FR)  
16:52  Pericardial disease.  
A. Klein (Cleveland, US)  
17:15  Cardiac oncology.  
H. Yamada (Tokushima, JP)  
17:37  Restrictive CM.  
J. Koyama (Matsumoto, JP)

16:30 - 18:00 Symposium WAGNER

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

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

16:30  Circulation cardiovascular imaging.  
P.N. Marino (Novara, IT)  
16:52  Journal of the American College of Cardiology Imaging.  
J. Narula (New York, US)  
A.S. Pearlman (Seattle, US)  
17:37  European Heart Journal-Cardiovascular Imaging.  
G. Maurer (Vienna, AT)

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  Mitral valve repair. The Imager expertise.  
A.J. Berrebi (Issy Les Moulineaux, FR)  
E. Lansac (Paris, FR)  
17:06  Aortic valve repair. The Imager expertise.  
A.A. Pasquet (Brussels, BE)  
17:24  Aortic valve repair. The Surgeon expertise.  
G. El Khoury (Brussels, BE)  
17:42  Panel discussion.  
B. Chambers (London, GB); I.A.C. Van Der Bilt (Naarden, NL); To be announced
**Friday 9 December 2016 - Afternoon Sessions**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Chairpersons</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:30 - 18:00</td>
<td>Symposium</td>
<td><strong>SCHUMANN</strong></td>
</tr>
<tr>
<td><strong>Spot the problem - Imager vs Interventionalist</strong></td>
<td>EACVI HIT (Heart Imagers of Tomorrow)</td>
<td></td>
</tr>
<tr>
<td>Chairpersons: J. Grapsa (London, GB); A. Florian (Muenster, DE)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16:30</td>
<td>Tips and tricks for the imager during MitraClip procedure: repair with a click and a plug.</td>
<td>S.H. Little (Houston, US)</td>
</tr>
<tr>
<td>16:52</td>
<td>TAVI imaging: plan correctly and prevent the catastrophe.</td>
<td>R. Sarwar (Oxford, GB)</td>
</tr>
<tr>
<td>17:15</td>
<td>The role of the tricuspid valve in TAVI and MitraClip.</td>
<td>R. Pavasini (Ferrara, IT)</td>
</tr>
<tr>
<td>17:37</td>
<td>CT and CMR to guide interventions.</td>
<td>T. Lapinskas (Kaunas, LT)</td>
</tr>
<tr>
<td>16:30 - 18:00</td>
<td>Teaching Course</td>
<td><strong>STRAUSS</strong></td>
</tr>
<tr>
<td><strong>Transposition of the the great arteries: a multimodality approach</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chairpersons: K. Pushparajah (London, GB); L. Lopez (Miami, US)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16:30</td>
<td>Pre surgical evaluation</td>
<td>M. Cohen (Philadelphia, US)</td>
</tr>
<tr>
<td>16:52</td>
<td>Cardiac mechanics after the atrial switch</td>
<td>X. Inart (Pessac, FR)</td>
</tr>
<tr>
<td>17:15</td>
<td>Imaging for complications after the arterial switch and atrial switch operation</td>
<td>L. Lopez (Miami, US)</td>
</tr>
<tr>
<td>17:37</td>
<td>Cardiac mechanics after the arterial switch operation</td>
<td>G. Di Salvo (London, GB)</td>
</tr>
<tr>
<td>16:30 - 18:00</td>
<td>Clinical Cases</td>
<td><strong>AGORA</strong></td>
</tr>
<tr>
<td><strong>Ischaemic heart disease</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chairpersons: A.N. Kitsiou (Athens, GR); R. Senior (London, GB)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16:30</td>
<td>Panel of experts:</td>
<td>898</td>
</tr>
<tr>
<td>16:30</td>
<td>Asymptomatic very late presentation of ALCAPA</td>
<td>899</td>
</tr>
<tr>
<td>16:40</td>
<td>Usefulness of 3-dimensional contrast echocardiography in the diagnosis of a left ventricular pseudoaneurysm after acute myocardial infarction</td>
<td>900</td>
</tr>
<tr>
<td>16:50</td>
<td>Peri-procedural jailing of septal perforator branch retrospectively identified using speckle tracking echocardiography</td>
<td>901</td>
</tr>
<tr>
<td>17:00</td>
<td>Anomalous origin of the left coronary artery from the pulmonary artery (ALCAPA)</td>
<td>902</td>
</tr>
<tr>
<td>17:10</td>
<td>Coronary artery compression by aneurysmal pulmonary artery</td>
<td>903</td>
</tr>
<tr>
<td>17:20</td>
<td>A rare complication of myocardial infarction: pseudoaneurysm leading to ischaemic VSD</td>
<td>904</td>
</tr>
<tr>
<td>17:30</td>
<td>Single coronary ostium from the right aortic sinus of valsalva</td>
<td>905</td>
</tr>
<tr>
<td>17:40</td>
<td>Incremental value of regional longitudinal strain upon visual assessment for detection of ischemia during dobutamine stress echocardiography</td>
<td>906</td>
</tr>
<tr>
<td>17:50</td>
<td>One serious complication after myocardial infarction, isn’t that enough?</td>
<td>907</td>
</tr>
</tbody>
</table>
Friday 9 December 2016 - Afternoon Sessions

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)

18:00 Echo at Jeopardy - Presenters: S. Matskepishvili (Moscow, RU); N. Cardim (Lisbon, PT)
18:00 EACVI Team.
18:15 Local host Team.
18:30 The rest of the world Team.
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* For members from ESC countries
Friday Posters
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.
Direct access to transthoracic echocardiography in a district general hospital: are referrals appropriate? P915
L.A.E. Brown, A.W. Zheng, S.E. Main, R.S.C. Jancis, C.D. Steadman, J.P. Carpenter (Poole, GB)
Surveillance echocardiography for valve disease; have the AHA valve guidelines translated in clinical practice? P916
K. Thomas, D.N.S. Senaratne, C. Townsend, S. Wheeler, I. Jacobson, A. Elkin stroke, K. Balkhausen, S. Boll (Reading, GB)
Effects of immediate echo guided AV and VV CRT optimization on left ventricular function and hemodynamics P917
V. Reskovic Lukic, J. Ljubas Macek, P. Pasalic, Z. Ostoic, R. Matasic, S. Vecerić, J. Separovic Hanzevacki (Zagreb, HR)
3D echocardiography estimation of ventricular performance : correlation between 3D strain and elastances P918
A.B. Bernard, C. Martinez, R.E. Dulgheru, V. Reskovic, P. Lanciotti (Tours, FR; Liege, BE)
Right ventricular reverse remodeling after balloon pulmonary angioplasty in patients with non operable chronic thromboembolic pulmonary hypertension P919
Pseudonormal and restrictive left ventricular filling patterns are associated with lower effectiveness of pulmonary vein isolation in patients with paroxysmal atrial fibrillation. P920
A. Savelev, A.V. Tregubov, Y.V. Shubik (St.Petersburg, RU)
Impact of new guidelines on diastolic dysfunction classification of HFrEF patients and correlation with cardiopulmonary exercise test functional parameters P921
V. Tufaro, F. Bandera, G. Generati, E. Alfonsietti, M. Guazzi (San Donato Milanese, IT)
Prevalence of proximal DVT on compression ultrasound in patients with acute pulmonary embolism and it’s diagnostic utility as a rule-in point-of-care test P922
Preoperative aortic annulus size assessment by transthoracic echocardiography compared to the size of surgically implanted aortic prostheses P923
U. Ingmarsson, L. Heiligen, Johansson, F.A. Flachskamp (Uppsala, SE)
New insights into the mechanics of left ventricular systolic and diastolic function in severe aortic stenosis P924
Comparison of cardiac magnetic resonance and echocardiography for evaluation of mitral regurgitation severity in patients with rheumatic heart disease P925
R. Meel, R. Nethononda, F. Peters, E. Libhaber, M.R. Essop (Johannesburg, ZA)
Tricuspid annulus remodeling in patients with permanent atrial fibrillation and functional tricuspid regurgitation P926
E. Surkova, J. Bidviene, G. Brunello, F. Veronesi, G. Cavalli, D. Cherata, G. Romeo, L.P. Badano, D. Muraru (Padua and Bologna, IT; Kaunas, LT; Craiova, RO)
Assessment of ventricular electromechanical dyssynchrony in CRT candidates P927
S. Moharem-Elgamal, M. Tawfik, R. Samir, M. Amin, M. Abol Maaty (Cairo, EG)
GLS is associated with conduction abnormalities in patients with type 1-myotonic dystrophy. P928
J.F. Cueva Recalde, J. Gayan Ordas, I. Lacambra, J. Pelegrin Diaz (Zaragoza, ES)
Descending aortic mechanics and stroke: a two-dimensional echocardiographic speckle tracking study P929
R. Teixeira, P. Dins, R. Monteiro, M. Santos, A. Botelho, N. Quintal, L. Goncalves (Coimbra, PT; Stevenage, GB)
Correlation between prognostic markers of stress echocardiography and angiographic severity of coronary artery disease in patients after primary PCI P930
A novel method for calculating the mitral valve area in patients with rheumatic mitral stenosis P931
Three dimensional printing of cardiac anatomical structures from three dimensional echocardiographic images: preliminary experience. P932
V. Lavanco, A.L. Leo, E. Pasotti, F.F. Falettra, T. Moccetti (Lugano, CH)
Reliability of fully automated calculation of global longitudinal strain by commercially available software: implications for daily practice P933
M.C. De Kleijn, P. Houthuizen, F.A.L.E. Bracke, R.G.P. Lopata (Eindhoven, NL)
Global longitudinal strain is a suitable tool to unmask the subclinical left ventricular dysfunction in patients with systemic sclerosis
V. Vertes, A. Nogradi, A. Porpaczy, T. Minier, L. Czirjak, A. Komocsi, R. Faludi (Pécs, HU)

Concomitant use of echocardiographic strain analysis and treadmill stress testing to predict coronary artery disease
H. Kozan, L.E. Sade, O. Turgay, B. Pirat, H. Muderrisoglu (Ankara, TR)

Cardiac-CT and transoesophageal echocardiography comparison for left atrial appendage clots detection in patients referred for left atrial interventional procedures.
R. Padron-Encalada, M. Barreiro-Perez, E. Diaz-Pelaez, A. Martin-García, I. Cruz-Gonzalez, J. Jimenez-Candil, P.L. Sanchez (Salamanca, ES)
Clinical Case Poster session 3

Spectacular disappearance of a massive 4-chamber thrombus  P938
A.E. Vijiac (Bucharest, RO)

A very rare reason of the left atrial appendage mass  P939
T. Kemaloglu Oz (Istanbul, TR)

A deeper look into an aortic regurgitation - case report  P940
G. Neves Pestana (Porto, PT)

Reversible cause of right heart failure in a patient diagnosed with cardiomyopathy  P941
C. Stefan (Bucharest, RO)

Consequences of an infection  P942
M. Coutinho Cruz (Lisbon, PT)

Pacemaker leads in endocarditis surgery, leave it or remove it?  P943
J. Sanz Sanchez (Valencia, ES)

Infective endocarditis with transesophageal echocardiography inconclusive: a diagnostic challenge resolved with nuclear medicine tests.  P944
C.H. Aristizabal Duque (Cordoba, ES)

Thrombosed transcatheter valve after a mitral valve-in-valve implantation  P945
M.R. Amanullah (Singapore, SG)

Monomorphic ventricular tachycardia in a 68-year-old woman: a late diagnosis of arrhythmogenic right ventricular cardiomyopathy/dysplasia (ARVC/D)  P946
L. Marques (Penafiel, PT)

A clinical case of myotonic dystrophy with complex cardiac involvement  P947
C. Ruivo (Leiria, PT)

A case of Churg Strauss diagnosed in the cardiology consult.  P948
V. Pire Mastracchio (Las Palmas De Gc, ES)

Sometimes it is more than just coronary atherosclerosis  P949
A.C. Gomes (Almada, PT)

Looking to the other side: exercise echo unveils right ventricular dysfunction in a patient with a final diagnosis of primary pulmonary hypertension.  P950
J.C. Peteiro Vazquez (A Coruna, ES)

Right ventricle myocardial herniation as a complication of constrictive pericarditis  P951
M. de Santos (Avellaneda, AR)

An acquired gerbode defect mistaken for tricuspid regurgitation: the importance of multi-modality imaging in infective endocarditis  P952
G.O. Furniss (Plymouth, GB)

Right atrial thrombus and pulmonary embolism in two patients with tricuspid atresia after Fontan operation  P953
M. Boutsikou (Athens, GR)

Asymptomatic L-transposition of the great vessels diagnosed in adulthood.  P954
J. Lopez Pais (Madrid, ES)

Aorta - right atrial tunnel with aneurysmatic left main coronary artery  P955
H.S. Kemal (Larnaca, CY)

Partial anomalous pulmonary venous connection in a 70-year-old patient  P956
M. Braga (Porto, PT)
The imaging examination and quality assessment
Economic impact analysis and quality performance of working with cardiovascular sonographers in high-volume echocardiography laboratory
B. De Chiara, F. Casadei, A. Peritore, F. Spano, G. Santambrogio, M. Vicario, I. Trollese, C. Gallina, C. Giannattasio, A. Moreo (Milan, IT)

Feasibility of temporal super resolution enhancement of echocardiographic images to diagnose cardiac Diseases
R. Sanjrbar, M. Karvandi, L.P. Badano (Tehran, IR; Padua, IT)

Remote medical diagnostician project - Achievements and limitation in tele-echocardiography.
D. Szczesniak-Stanczyk, W. Brzozowski, R. Blaszczyk, M. Szyszko, R. Zarczuk, M. Janowski, A. Wysokinski, B. Stanczyk (Lublin, PL)

Assessment of morphology and function
Right atrial remodeling and galectin-3 are associated with functional capacity in patients with pulmonary arterial hypertension
B. Fries, D. Liu, K. Hu, W. Voelker, G. Ertl, F. Weidemann, S. Herrmann (Würzburg and Unna, DE)

Interatrial electromechanical delay assessed by tissue doppler imaging can separate adults with prehypertension from healthy normotensive controls.
D. Djikić, N. Mjecovic, B. Dejanovic, V. Peric, M. Maninkovic, N. Jankovic, B. Orbovic, D. Simc (Belgrade and Pristina, RS)

Prediatory results of an extensive echocardiographic pacemaker optimization protocol for cardiac resynchronization therapy
P. Barbier, M. Guglielmo, L. Salvini, G. Savioli (Milan and Pavia, IT)

Left ventricular global and regional myocardial function in patients with double orifice mitral valve after radical correction on atrioventricular septal defect
K. Hristova, A. Dasheva, R. Marinov, S. Lasarov, I. Mitev, P.M. (Sofia, BG)

Improving quantitation of left ventricular ejection fraction in a tertiary echocardiography lab - marrying (or merging) guidelines and new technology
D. Erne, K. Rhodes, M. Bartlett, A. Chong, S. Wahi (Brisbane, AU)

Echocardiographic evaluation of cardiac function and hemodynamics during LVAD-based resuscitation from cardiac arrest - a porcine study

Systolic excursion of the right ventricular outflow tract as a marker of right ventricular dysfunction
T. M. Crowe, P. Sonecki, M.J. Brewis, A.C. Church, M.K. Johnson, A.J. Peacock (Glasgow, GB)

The impact of the new 2016 ASE/EACVI recommendations in the prevalence and grades of diastolic dysfunction: an analysis from the general population

Diagnostic performance of stress Echo, SPECT, PET, stress CMR, CTCA, CTP and FFRCT for the assessment of CAD versus invasive FFR: a metaanalysis
G. Pontone, A.I. Gunaci, M. Verdechica, D. Andreini, M. Guglielmo, A. Baggiano, V. Beltrame, G. Ferro, P. Carita, M. Pepi (Milan, Bar, Chieti and Palermo, IT)

Utility of early assessment of myocardial mechanics in STEMI patients treated by primary percutaneous coronary intervention to predict major adverse cardiac events during the first 12 months of follow-up
D. Trifunovic, G. Krijanac, L. Savic, M. Asanin, D. Matovic, G. Stankovic, I. Mrdovic (Belgrade, RS)

Role of left atrial reservoir in the prediction of increased left ventricular filling pressures in patients with ST-segment elevation myocardial infarction

Does the left ventricular ejection fraction improves the Grace risk score accuracy?
M. Madeira, R. Teixeira, L. Reis, P. Dinis, A. Fernandes, F. Caetano, I. Almeida, M. Costa, L. Goncalves (Coimbra, PT; London, GB)

Can we predict significant coronary stenosis using regional strain analysis in non-ST elevation acute coronary syndrome?

Heart valves
Persistence of pulmonary hypertension after transcatheater aortic valve replacement: incidence and prognostic impact.

Global longitudinal strain is an independent predictor of all cause mortality in patients with severe aortic valve stenosis undergoing valve replacement or treated conservatively
B. Fries, D. Liu, K. Hu, W. Voelker, G. Ertl, F. Weidemann, S. Herrmann (Würzburg and Unna, DE)

Ischaemic heart disease
Effect of coronary artery ectasia on left ventricular deformation mechanics. A 2D Speckle Tracking Echocardiography study

Diagnostic performance of stress Echo, SPECT, PET, stress CMR, CTCA, CTP and FFRCT for the assessment of CAD versus invasive FFR: a metaanalysis

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B. Fries, D. Liu, K. Hu, W. Voelker, G. Ertl, F. Weidemann, S. Herrmann (Würzburg and Unna, DE)
Contribution of left ventricular diastolic dysfunction and myocardial fibrosis to pulmonary hypertension in severe aortic stenosis
A. Krivickiene, B. Gumauskiene, E. Drebrickaite, E. Ereminiene, I.J. Vaskelyte (Kaunas, LT)
P978

Left atrial dysfunction as a determinant of pulmonary hypertension in patients with isolated severe aortic stenosis and preserved left ventricular ejection fraction
P979

Intraprocedural monitoring protocol using routine transthoracic echocardiography with backup transesophageal probe in transcatheater aortic valve replacement: a single center experience
S. Stella, I. Rosa, C. Marin, F. Ancona, A. Latib, M. Montorano, A. Colombi, A. Margonato, E. Agricola (Milan, IT)
P980

LVot area measurement using gated CT data reclassifies aortic stenosis severity as graded by echocardiography
L. Moderato, A. Palumbo, S. Coli, D. Orlindini, G. Russo, N. Gabazzi (Parma and Modena, IT)
P981

Paradoxical low-flow low-gradient aortic stenosis: an intermediate state between moderate and severe aortic stenosis?
C. Di Nora, S. Poli, O. Vriz, C. Zito, S. Careri, D. Pavan, F. Antonini-Cantenni (Trieste, San Daniele del Friuli, Messina and Pordenone, IT)
P982

Can rheumatic significant mitral stenosis be a cause of paradoxical low gradient, low flow, in patients with severe aortic stenosis?
S. Stella, I. Rosa, C. Marin, F. Ancona, A. Latib, M. Montorano, A. Colombi, A. Margonato, E. Agricola (Milan, IT)
P983

Echocardiographic end-diastolic velocity in the proximal descending aorta should be interpreted with caution when the ascending aorta is dilated: insights from cardiovascular magnetic resonance
P985

Prevalence of atrial mitral regurgitation in patients with severe mitral regurgitation
P987

Role of 2D/3D echocardiography in the risk stratification of endocardial lead-related tricuspid regurgitation: a single-centre study among 241 patients
A. Hamadanchi, B. Moradi, Y. Asadi, T.C. Poerner, T. Doenst, P.C. Schulze, B. Goebel (Jena, DE)
P989

When TEE is needed in patients with staphylococcus aureus bacteremia for the assessment of risk profile of infective endocarditis?
L. Longobardo, C. Zito, O. Trio, M. Rusia-Plotcine, G. Di Bella, B.K. Khandheria, S. Careri (Messina, IT; Milwaukee, US)
P988

Appropriateness criteria to echocardiograms for suspected infective endocarditis: experience of a tertiary referral center
P990

Independent predictors of outcome in infective endocarditis
P991

The role of transesophageal echocardiography in clinical course and prognosis of complicated infective endocarditis in critically ill patients: our 15 years experience
F. Ahmad, S. Cox, S.T. Chan, E. Abdul Rahman, I. Zainal Abidin, M.A. Sadiq (Kuala Lumpur, Putrajaya, Malaysia, Kuala Lumpur, MY; Brisbane, QLD, 4066, AU; Muscat, OM)
P992

Left bundle branch block atypical pattern as a prognostic determinant in patients taken to TAVI
B. Parra Laca, F. Isias, A. De Agustin, L. Nombela, P. Marcos-Alberca, C. Macaya, L. Perez De Isla, C. Olmos (Madrid, ES)
P993

Cardiomyopathies

Efficacy of long-term ivabradine therapy in severe systolic chronic heart failure patients with and without type 2 diabetes mellitus
L.R. Tumasyan, K.G. Adanyan (Yerevan, AM)
P994

Relations between left ventricular reverse remodeling and serum markers of extracellular matrix fibrosis in dilated cardiomyopathy
P995

The healthy left ventricle accommodates an increasing vortex formation time for volume transfer in diastolic filling: Implications for heart failure
G.J. King, K. Coen, M. Serseniuc, P.G. Nolan, J.G. Clarke (Limerick, Kilkenny and Galway, IE)
P996

Evolutionary changes of pulmonary artery pressure after left ventricular assist device implant
M.V. Di Ruocco, P.L. Temporelli, M. Pistono, A. Imparato, E. Eleuteri, P. Giannuzzi (Veruno, IT)
P997

Functional correlates and prognostic value of coronary flow velocity reserve by vasodilator stress echocardiography in hypertrophic cardiomyopathy
A. Soufi, P. H. El Hattab, N. Bendagha, M. Tribak, F.Z. Lahchab, L. Mahfoudi, F. Adel, S. Moughli, D. Mohty (Rabat, MA; Limoges, FR)
P998

Quantification of myocardial performance in non-obstructive versus latent-obstructive hypertrophic cardiomyopathy
P999

Left bundle branch block as a prognostic determinant in patients taken to TAVI
G. Ahmad, S. Cox, S.T. Chan, E. Abdul Rahman, I. Zainal Abidin, M.A. Sadiq (Kuala Lumpur, Putrajaya, Malaysia, Kuala Lumpur, MY; Brisbane, QLD, 4066, AU; Muscat, OM)
P1000

Lifelong arrhythmic risk stratification in arrhythmogenic right ventricular cardiomyopathy: distribution of events and impact of periodic reassessment
C. Cappelletto, D. Scannell, A. De Luca, B. Pinamonti, G. Barbati, G. Rigo, A. Djorkievic-Dikic, E. Picano (Benevento, Lucca, Mestre-Venice and Pisa, IT; Belgrade, RS)
P1001
Determinants of the beneficial effect of aldosterone antagonism on exercise capacity in heart failure with reduced ejection fraction (P1002)
W. Kosmala, W. Sacharzuk, T. Kotwica, R. Dankowski, M. Przewlocka-Kosmala, M. Kobus-Kropopowicz, A. Mysiak, A. Szymska
(Wroclaw and Poznan, PL)

Myocardial strain values in patients with acute myocarditis and preserved ejection fraction. A magnetic resonance feature tracking study (P1003)

Detection of subclinical left ventricular dysfunction by speckle tracking echocardiography in patients with myocarditis without prominent wall motion abnormalities (P1004)
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 (P1005)

Systemic diseases and other conditions

Relationships between subepicardial and subendocardial longitudinal strain with late gadolinium enhancement in uncomplicated hypertensive patients (P1006)
C. Costa, D. Miranda, A. Almada, I. Ponsiglione, C. Santaoro, M. Puglia, L. Barbuto, A. Cuocolo, B. Tramarin, M. Gallerani (Naples, IT)

Aortic root diameters and aortic regurgitation in hypertensive patients and normal subjects (P1007)
O. Vriz, N.B. Berth, G. Brosolo, E. Bossonne (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 (P1008)
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. (P1009)

Impaired left ventricular ejection fraction in a cohort of systemic sclerosis patients: clinical and echocardiographic characteristics (P1010)

Prognostic role of subclinical left ventricular systolic dysfunction evaluated using strain imaging by speckle-tracking echocardiography (P1011)

Inferior vena cava diameter is a strong and practical marker of physical activity and fitness (P1012)
H.A.C.M. Bruin De-Bon, H.T. Horst, S.M. Boekholdt, N.M. Panhuizen-Goedkoop, B.J. Bouma, R.J.G. Peters (Amsterdam, NL)

When the heart works for two: morphologic and functional adaptation during pregnancy (P1013)

Extensive use of lung ultrasound in pediatric cardiac surgery: preliminary experience (P1014)
M. Cantinotti, L. Art-All, E.F. Franchi, M. Scalese, L. Gargani (Massà and Pisa, IT)

Asymptomatic delayed right ventricular perforation by cardiac implantable electronic devices lead, echocardiographic features. (P1015)
B. Zaborska, E. Malowska, E. Pilchowska-Paszkiel, M. Sikora-Frac, A. Czepli, M. Swiatkowski, P. Kulakowski (Warsaw, PL)

Pericardial disease

Novel echocardiographic prognostic markers for cardiac tamponade in patients with large malignant pericardial effusions. A paradigm shift from fluid to tissue imaging. (P1016)
G. Chalikias, A. Samaras, P. Kikas, A. Thomaidis, I. Drosos, D. Tziakas (Alexandroupolis, GR)

Doppler echocardiographic parameters as a marker of cardiac tamponade. (P1017)

Diseases of the aorta

Sigmoid septum as a marker of elongation of thoracic aorta caused by progression of atherosclerosis (P1018)

Carotid artery atherosclerosis and stiffness: comparison of different metabolic measures (P1019)
C. Di Noria, S. Poli, O. Vriz, L. Sparacino, C. Zito, S. Carejo, 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 (P1020)
Q. Giampi, M. Paterm, 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 (P1021)

Long-term prognosis of a stress echocardiography in patients after successful primary percutaneous intervention and incomplete revascularization of non-culprit lesions (P1022)

Diastolic exercise stress echo can unmask diastolic dysfunction in type 2 diabetes, a five-year follow-up study (P1024)
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 (P1025)
H.R. Tsai, W.Y. Liu, W.C. Tsai (Tainan, TW)
Friday 9 December 2016 - Posters

Transesophageal echocardiography

Longitudinal changes of atherosclerotic features in the aorta on transcatheter aortic valve implantation using transesophageal echocardiography
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 echocardiography
G. Perea, M. Lombardero, R. Henquin, M.C. Corneli (Buenos Aires, AR)

Region growing method provides better left ventricular volume and cardiac output measuring
H.-L. Cheng (Taipei, TW)

3 dimensional echocardiographic evaluation of mitral valve geometry in patients with secondary and primary mitral regurgitation

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
M. Rosca, L. Mandes, A. Calin, C.C. Beladan, R. Enache, A. Mateescu, C. Calin, R. Jurcut, C. Ghitina, B.A. Popescu (Bucharest, RO)

Left ventricular strain at presentation predicts long-term outcome in ALCAPA patients.

Global atrial-ventricular strain as a new index of subclinical left heart dysfunction in hypertensive and diabetic patients
M. Camelii, G.E. Mandol, F.M. Rghin, C. Alibizi, 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
L. Demirevska, D. Gotchev (Sofia, BG)

Right ventricular outflow premature contractions induce left ventricular dyssynchrony
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
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
R.C. Rimbas, S. Mihaila, T. Abd Alrahman, A. Mazen, E. Samy (Cairo, EG)

Can speckle tracking echocardiography derived early systolic lengthening duration predict myocardial viability?
P. Selvanos, 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

Are biventricular systolic functions impaired in patient with coronary slow flow? A prospective study with three dimensional speckle tracking
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

Computed Tomography and Nuclear Cardiology

Cardiac computed tomography besides coronary arteries - four years of experience of a high volume cardiac catheterisation centre
**Clinical Case Poster session 4**

<table>
<thead>
<tr>
<th>Title</th>
<th>Author(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>An unexpected finding</td>
<td>R. Ilhao Moreira (Coimbra, PT)</td>
</tr>
<tr>
<td>Coronary artery ectasia in the setting of subacute inferior STEMI</td>
<td>E. Cambronero Cortinas (Albacete, ES)</td>
</tr>
<tr>
<td>Diagnosis through the back door: the utility of the subscapular acoustic window</td>
<td>G. Giannakopoulos (Geneva, CH)</td>
</tr>
<tr>
<td>A challenging case of paravalvular leakage closure</td>
<td>C.Y. Wong (Hong Kong, HK)</td>
</tr>
<tr>
<td>A life-threatening asymptomatic incidental finding</td>
<td>M.J. Vieira (Figueira Da Foz, PT)</td>
</tr>
<tr>
<td>Acute heart failure due to intermittent aortic prosthesis regurgitation - case report</td>
<td>G. Neves Pestana (Porto, PT)</td>
</tr>
<tr>
<td>Role of echocardiography in a patient with sequels after surgical treatment of infective endocarditis on a bicuspid aortic valve</td>
<td>D. Kalimanovska-Ostric (Belgrade, RS)</td>
</tr>
<tr>
<td>MitraClip to treat systolic anterior motion-induced outflow tract obstruction in hypertrophic obstructive cardiomyopathy</td>
<td>A.G. Pavon (Milan, IT)</td>
</tr>
<tr>
<td>Acute heart failure by parvovirus B19</td>
<td>A. Nunes (Sao Mamede De Infesta, PT)</td>
</tr>
<tr>
<td>Multimodality assessment of myocardial involvement in female carriers of the Duchenne disease</td>
<td>J.J. Portero Portaz (Albacete, ES)</td>
</tr>
<tr>
<td>Cardiovascular complications in hypereosinophilic syndrom-a case report</td>
<td>C. Stefan (Bucharest, RO)</td>
</tr>
<tr>
<td>Giant false left ventricle aneurysm in the myocardial infarction outcome</td>
<td>A. Namitokov (Krasnodar, RU)</td>
</tr>
<tr>
<td>From syncope to the diagnosis of systemic disease: the importance of a high index of suspicion</td>
<td>M. Chivulescu (Bucharest, RO)</td>
</tr>
<tr>
<td>A total anomalous pulmonary venous return in 60-year-old patient.</td>
<td>A. Wojtkowska (Lublin, PL)</td>
</tr>
<tr>
<td>Atrial septal defect occluder fracture - diagnostic challenge in asymptomatic patient</td>
<td>A.C. Gomes (Almada, PT)</td>
</tr>
<tr>
<td>Marfan syndrome in two newborn infants</td>
<td>A. Jurko (Martin, SK)</td>
</tr>
<tr>
<td>Isolated pulmonary valve regurgitation as a cause of severe right heart dilatation in an adult patient</td>
<td>I. Cazzoli (Roma, IT)</td>
</tr>
<tr>
<td>Multimodality imaging - how to find the missing leak</td>
<td>F. Valente (Lisbon, PT)</td>
</tr>
</tbody>
</table>
The imaging examination and quality assessment
The natural course of heart failure with preserved ejection fraction (HFpEF) - insights from an exploratory echocardiographic registry
Epicardial fat and effectiveness of catheter radiofrequency ablation in patients with atrial fibrillation and metabolic syndrome
V.A. Ionin, E.L. Zadavskaya, A.V. Soboleva, O.V. Listopad, K.N. Malkov, 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
S. Boeckstaens, M. Van Der Hoogstrate, N. Coltell, 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
Real live applications of three-dimensional echocardiographic quantification of the left ventricular volumes and function using an automated adaptive analytics algorithm
3D echocardiographic left ventricular dysynchrony indices in end stage kidney disease: associations and outcomes
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
A. Kovacs, D. Muraru, B.K. Lakatos, E. Surtok, D. Peluso, Z. Toser, M. Tokodi, B. Merkely, L.P. Badano (Budapest, HU; Padua, IT)

Ischaemic heart disease
Efficacy of endarterectomy of the left anterior descending artery: evaluation by adenosine echocardiography
Left ventricular diastolic dysfunction after acute myocardial infarction with preserved ejection fraction is related to lower exercise capacity
D. Stanojevic, S. Apostolovic, R. Jankovic-Tomasevic, D. Djordjevic-Radojkovic, S. Salinger-Martinsonov, 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 diastysynchrony
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
Could anatomical and functional features predict cerebrovascular events in patients with patent foramen ovale?

Heart valves
Association between left atrial dilatation and invasive hemodynamics at rest and during exercise in asymptomatic aortic stenosis
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
Prognostic impact of initial left ventricular dysfunction and mean gradient after transcatheter aortic valve implantation
Distribution and prognostic significance of left ventricular global longitudinal strain in asymptomatic significant aortic stenosis: an individual participant data meta-analysis
Discrepancies between echocardiographic and invasive assessment of aortic stenosis in multimorbid elderly patients
G. Giannakopolous, 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
Atrial deformation correlated with functional capacity in mitral stenosis
C.Y. Chien, W.C. Tsai (Chiayi and Tainan, TW) P1086

Net atrioventricular compliance can predict reduction of pulmonary artery pressure after percutaneous mitral balloon commissurotomy
T. Moustafa, M. Alydamanony (Zagazig, EG) P1087

Match and mismatch between opening area and resistance in mild and moderate rheumatic mitral stenosis
I. El-Dosouky (Zagazig, EG) P1088

When should cardiovascular magnetic resonance imaging be considered in patients with chronic aortic or mitral regurgitation?
C.L. Polte, S.A. Gao, K.M. Langerstrand, A.A. Johnsson, O. Bech-Hansen (Gothenburg, SE) P1089

Echocardiographic characteristics of aortic valve fenestration with aortic regurgitation for aortic valve repair.

Aortic regurgitation assessment by 3D transesophageal echocardiography vena contracta area: usefulness and comparison with 2D methods.

Characterising cardiomyopathy in mitral regurgitation due to barlow disease: role of CMR
B. Liu, S. Bag, M. Hayer, N. Edwards, R. Steeds (Birmingham, GB) P1092

Compensatory peripheral increase in artero-venous o2 difference to severe functional mitral regurgitation in heart failure
G. Generati, F. Bandera, E. Alfonzetti, M. Guazzi (San Donato Milanese, IT) P1093

Prognostic impact of concomitant atrioventricular valve regurgitation in patients undergoing transcatheter aortic valve implantation.

Morphological characterization of vegetation by real-time three-dimensional transesophageal echocardiography in infective endocarditis: prognostic impact

Relation between causative pathogen and echocardiographic findings in patients with infective endocarditis: is there an association and is it clinically relevant?

Aortic and mitral valve infective endocarditis: different clinical and echocardiographic features and peculiar complication rates
R. Ilhao Morere, M. Coutinho Cruz, L. Moura Branco, A. Gairinho, L. Coutinho Miranda, L. Almeida Morais, P. Modas Daniel, I. Rodrigues, J. Fragata, R. Cruz Ferreira (Lisbon, PT) P1097

Vegetation size relevance and impact on prognosis in patients with infective endocarditis

Causes of death on the valvular heart disease surveillance list- a 5 year audit
H.P. Morgan, M. Nana, C. Constantin (Bridgend, GB) P1099

Cardiomyopathies

Left ventricular non-compaction and idiopathic dilated cardiomyopathy: the significant diagnostic value of longitudinal strain
C. Bosseau, F. Tarando, E. Galli, C. Rousseau, A. Hubert, C. Leclercq, E. Donal (Rennes, FR) P1000

The role of echocardiography in the management of diuretics withdrawal in patients with chronic heart failure and severely reduced ejection fraction: a prospective cohort study
G. Romano, G. Vitale, V. Agnese, C. Minà, S. Magro, C. Falletta, G. Di Gesaro, D. Belavia, F. Clemenza (Palermo, IT) P1001

Outcomes in paediatric new onset left ventricular dysfunction and dilatation: differences between post-myocarditis and DCM
A. Argiolas, E.R. Elena Reffo, O.M. Ornella Milanesi (Padua, IT) P1002

De novo mitral regurgitation as a cause of heart failure exacerbation in hypertrophic cardiomyopathy

Correlation of conventional and new echocardiographic parameters with sudden cardiac death risk score in patients with hypertrophic cardiomyopathy

Inverse correlation between myocardial fibrosis and left ventricular function in rheumatic mitral stenosis: a preliminary study with cardiac magnetic resonance
E. Sahara, C. Atamakioseomah, M. Kasim (Jakarta, ID) P1005

Left ventricular diastolic dysfunction and cardiac sympathetic derangement in patients with Anderson-Fabry disease: a 2D speckle tracking echocardiography and cardiac 123I-MIBG study
L. Spinelli, T. Pellegrino, A. Pisani, C.A. Giudice, E. Riccio, M. Imbraco, A. Cuocolo, B. Trimarco (Naples, IT) P1006

Left ventricular hypertrophy and mild cognitive impairment as markers for target organ damage in hypertensive patients with multiple risk factors

Subclinical left ventricular dysfunction in asymptomatic type 1 diabetic children

Minimal differences shown by echocardiography and NT-proBNP level distinguishing cardiotoxic effect related to breast cancer therapy in patients with or without HER2 expression
M.A. Nowakowska, L. Chrzansowski, K. Frynas-Jonczyk, K. Widowiak-Otrowojek, P. Wejner-Mik, P. Lipiec, M. Krakowska, P. Potemski, E. Ponska-Goscinak, J.D. Kasprzak (Lodz and Szczecin, PL) P1009
Speed of recovery of left ventricular function is not related to the prognosis of takotsubo cardiomyopathy - a portuguese multicenter study.
C. Ruivo, N. Marques, K. Domingues, C. Lourenco, R. Santos, C. Gomes, L. Abreu, L. Reis, M. Moz, O. Azevedo (Leiria, Faro, Santarem, Coimbra, Penafiel, Almada, Vila Real and Guimaraes, PT)

Myocardial dysfunction in Takotsubo cardiomyopathy - more than meets the eye?

Systemic diseases and other conditions

Obstructive sleep apnea and echocardiographic parameters.
N. Wiligorska, D. Wiligorska, P. Talarowska, A. Segiet, O. Mozenska, D.A. Kosior (Warsaw, PL)

Relationship between left atrium and hypertensive retinopathy in patients with systemic hypertension: a real-time three-dimensional echocardiography-based study

Detection of early left ventricular systolic dysfunction in hypertensive patients with preserved ejection fraction using deformation imaging
R. M. Hamdy, A. M. Hamdy, H. M. Fereig, B. A. Ali (Cairo, EG)

Left ventricular strain in systemic sclerosis with and without pulmonary hypertension; a cardiac magnetic resonance study
A. Lindholm, R. Hesselstrand, G. Radegran, E. Ostenfeld (Lund and Malmo, SE)

End-stage chronic kidney disease and routine annual transthoracic echocardiography
L. Puga, J. Ribeiro, R. Texeira, M. Costa, L. Goncalves (Coimbra, PT)

Arrhythmogenic right ventricular cardiomyopathy or athlete’s heart adaptations?
A. Zaroui, Z. Rezine, M. F. Drissi, R. Mechmeche (Tunis, TN)

Reduced left ventricular function in long term follow-up in women with previous severe preeclampsia
L. Groenningsaeter, E. Langesaeter, M.E. Estensen (Oslo, NO)

Preload dependent changes of left ventricular twisting and torsion during pregnancy: a three-dimensional strain study

Congenital heart disease

Pulmonary and systemic vascular resistance during graded exercise in patients with ventricular septal defect repair versus healthy controls
C. Gabriels, L. Fresiello, A. Van De Bruaene, F. Helsen, W. Budts, R. Buys (Leuven, BE)

Effect of percutaneous stent implantation on arterial hypertension and aortic flow dynamics in patients with aortic coarctation: identification of responders and non responders

Diseases of the aorta

The use of vitamin k antagonists is associated with increased levels of vascular calcification in low-risk patients with atrial fibrillation

Stress echo

Stress echo positivity predicts cancer death
C. Carpeggiani, P. Landi, M.G. Andreassi, R. Sicari, E. Picano (Pisa, IT)

Assessment of the agreement between instantaneous wave-free ratio (iFR) and dobutamine stress echo in real world stable angina patients
K. Keramida, V. Papoulou, O. Boleti, D. Flessas, M. Petropoulou, S. Loizos, P. Nihoyannopoulos (London, GB)

Impact of AVAproj on severity reclassification of LFLG AS with persistent area - gradient discordance
J. Moura Ferreira, N. Moreira, R. Martins, M.J. Ferreira, M. Pego (Coimbra, PT)

The prognostic value of rest and exercise- induced B-lines in heart failure patients
M.C. Scali, L. Cortigiani, A. Simionuc, M. Marzilli, E. Picano (Pisa and Lucca, IT)

Stress-induced worsening of left ventricular diastolic function as a new marker of myocardial ischemia: a retrospective observational study.

Prediction and management of stable angina in senior population

Risk assessment of coronary heart disease in men before revascularization of non-coronary arteries
T.V. Naiden, S.J. Bartosh-Zelenaya (St. Petersburg, RU)
Transesophageal echocardiography
Relation of elevated C-reactive protein level to left atrial size and left atrial thrombus in patients with valvular and non-valvular atrial fibrillation
G.A. Abdel Razek, K.K. Elkhashab, M.M. Malwany (Fayoum, EG)

Transesophageal echocardiographic assessment of left atrial appendage function as a cardioembolic source in atrial fibrillation
E.M.A.N. Hafez Mohamed, H.A.N.A.A. Mohamed Fereig, O.L.A. Abd Elazeez Hasan (Cairo, EG)

Correlations of three-dimensional mitral valve geometry with chronic Ischaemic mitral regurgitation severity in compliance with tethering phenotypes
A. Andrianova, M.A. Saidova, M.N. Bolotova, S.V. Dobrovolskaya, M.I. Makeev (Moscow, RU)

Aortic root physiology in patients with aortic valvulopathy

Tissue Doppler and speckle tracking
Comparison of layer-specific strain to other contemporary deformation parameters for coronary artery disease prediction in patients with non-ST-segment elevation acute coronary syndrome.

Machine-learning based diagnosis of heart failure with preserved ejection fraction: how much do we agree with the guidelines?
S. Sanchez-Martinez, N. Duchateau, T. Erdei, G. Kurszt, A. Degiovanni, E. Carluccio, A.G. Fraser, G. Piella, B.H. Bijnens (Barcelona, ES; Sophia-Antipolis, FR; Cardiff, GB; Oslo, NO; Novara and Perugia, IT)

Cardiac shear wave velocity in healthy individuals
M. Strachinaru, M.L. Geleijnse, J.G. Bosch, N. De Jong, A. F. W. Van Der Steen, B.M. Van Dalen, H. J. Vos (Rotterdam, NL)

Do still we need E/E’ prime ratio in predicting left ventricular filling pressures in heart failure with reduced ejection fraction?
G. Romano, S. Magro, C. Mina’, G. Novo, S. Dell’oglio, C. Falletta, G. Di Gesaro, F. Clemenza, D. Bellavia (Palermo, IT)

Evaluation of myocardial dysfunction in children with Beta Thalassemia major
A. A. Tantawy, N. Habeeb, N.H.K. El Sherif, A. E. Abdelhamid (Cairo, EG)

Association of left ventricular size and septal mechanics with right ventricular function and transplant-free survival in infants with hypoplastic left heart syndrome
D. Forsha, L. Li, N. Joseph, S. Kuttly, M.K. Freidberg (Kansas City and Omaha, US; Toronto, CA)

Predictive value of speckle tracking of chronic rejection in middle-aged heart transplant patients
R. Pavasini, C. Cirillo, J. Mordi, J. Grapsa, N. Tzemos (Ferrara and Naples, IT; Glasgow and London, GB)

Determinants of the left atrial stiffness in systemic sclerosis
A. Porpaczy, A. Nogradi, M. Strenner, T. Minier, L. Czirjak, A. Komosi, R. Faludi (Pecs, HU)

Could right atrial peak global longitudinal strain be useful in assessment of right heart function in pulmonary arterial hypertension?
M. Kaznica-Wiatr, M. Novacka, G. Kopek, M. Waligora, M. Olszowska, P. Podolec (Krakow, PL)

Utility of speckle tracked strain assessment of the right ventricle following lung resection
P.J. McCall, P. Sonecki, J. Kinsella, B.G. Shelley (Glasgow, GB)

Edge-to-edge-repair in patients with dilated cardiomyopathy and secondary mitral regurgitation: effect on myocardial function as assessed by echocardiographic speckle tracking analysis
L. Faber, S. Scholtz, Z. Dimitriadis, A. Graw, N. Bogunovic, W. Scholtz, J. Boergermann, J. Gummert, D. Horstkotte (Bad Oeynhausen, DE)

Decongestion, arterial stiffness and ventricular-arterial coupling in AHF
E. Sciatti, E. Vizzardi, I. Botta, S. Gentile, C. Romano, M.S. Rodolico, V. Losi, C. Tamburino (Catania, IT)

Assessment of left ventricular twist-untwist mechanics in cardiac amyloidosis using three-dimensional speckle-tracking echocardiography
L. Capotosto, R. Ashurov, G. Truscelli, G. Placanica, S. Lai, A. Vitarelli (Rome, IT)

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Saturday Sessions
### Clinical Imaging

**MAHLER**

#### Difficult cases in valvular intervention

**Clinical Pathways**

**Mobile App Interactive Session**

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Role of imaging in percutaneous intervention.</td>
<td>J.L. Cavalcante (Pittsburgh, US)</td>
</tr>
<tr>
<td>08:52</td>
<td>Difficult mitraClip.</td>
<td>V. Delgado (Leiden, NL)</td>
</tr>
<tr>
<td>09:15</td>
<td>Challenging TAVI.</td>
<td>R. Hahn (New York, US)</td>
</tr>
<tr>
<td>09:37</td>
<td>Valve in valve/ring.</td>
<td>M.A. Clavel (Quebec, CA)</td>
</tr>
</tbody>
</table>

#### Imaging in unclassified cardiomyopathies

**Joint session with ECOSIAC**

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Chagas’s heart disease: how are we in 2016.</td>
<td>M. Vieira (Sao Paulo, BR)</td>
</tr>
<tr>
<td>08:52</td>
<td>Arrhythmogenic cardiomyopathy.</td>
<td>S. Spina (Ramos Mejia, AR)</td>
</tr>
<tr>
<td>09:15</td>
<td>Stress cardiomyopathies.</td>
<td>D. Dawson (Aberdeen, GB)</td>
</tr>
<tr>
<td>09:37</td>
<td>Other unclassified.</td>
<td>F. Pelliccia (Roma, IT)</td>
</tr>
</tbody>
</table>

#### 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)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>How to thrive in echocardiography and keep up with the latest techniques : the view of a physiologist.</td>
<td>C. West (London, GB)</td>
</tr>
<tr>
<td>08:52</td>
<td>Interventional imaging : a new subspecialty?</td>
<td>F. Tournoux (Paris, FR)</td>
</tr>
<tr>
<td>09:15</td>
<td>CMR, CT and nuclear training : how long and how much?</td>
<td>R.R. Buechel (Zurich, CH)</td>
</tr>
<tr>
<td>09:37</td>
<td>Research opportunities for the young community.</td>
<td>C. Sousa (Porto, PT)</td>
</tr>
</tbody>
</table>
### 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.

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Acute aortic syndrome: echocardiography.</td>
<td>E. Agricola (Milan, IT)</td>
</tr>
<tr>
<td>08:52</td>
<td>Acute aortic syndrome: CT/CMR.</td>
<td>U. Sechtem (Stuttgart, DE)</td>
</tr>
<tr>
<td>09:15</td>
<td>Thoracic aortic dilatation and aneurysm: TEE.</td>
<td>J.F. Rodriguez Palomares (Barcelona, ES)</td>
</tr>
<tr>
<td>09:37</td>
<td>Thoracic aortic dilatation and aneurysm: CT/CMR.</td>
<td>A. Florian (Muenster, DE)</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>Imaging and diagnosis: could we “EVINCI” the appropriate modality?</td>
<td>D. Neglia (Pisa, IT)</td>
</tr>
<tr>
<td>08:48</td>
<td>Imaging and outcome: do we need “COURAGE” to keep “PROMISE”?</td>
<td>P. Cremer (Shaker Heights, US)</td>
</tr>
<tr>
<td>09:06</td>
<td>Emerging imaging: the “CE-MARK” ways.</td>
<td>S. Plein (Leeds, GB)</td>
</tr>
<tr>
<td>09:24</td>
<td>Is viability imaging still “viable” after “STICH”?</td>
<td>T.H. Schindler (Baltimore, US)</td>
</tr>
<tr>
<td>09:42</td>
<td>Panel discussion.</td>
<td>P.A. Kaufmann (Zurich, CH); W. Jaber (Cleveland, US); D. Neglia (Pisa, IT); S. Plein (Leeds, GB); T.H. Schindler (Baltimore, US); P. Cremer (Shaker Heights, US)</td>
</tr>
</tbody>
</table>

### Clinical Cases

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30</td>
<td>An unrecognized mechanism of functional tricuspid regurgitation revealed by transthoracic three-dimensional echocardiography</td>
<td>J. Bidwiene (Kaunas, LT)</td>
</tr>
<tr>
<td>08:40</td>
<td>Left ventricular pseudoaneurysm after radiofrequency ablation of premature ventricular contractions</td>
<td>N. Zhukovskiy (St. Petersburg, RU)</td>
</tr>
<tr>
<td>08:50</td>
<td>Successfull management of buckling of echocardiographic transsophageal probe</td>
<td>F. Casadei (Lavezzola, IT)</td>
</tr>
<tr>
<td>09:00</td>
<td>An extremely rare tumor of cardiovascular system</td>
<td>I. Rodrigues Goncalves (Lisbon, PT)</td>
</tr>
<tr>
<td>09:10</td>
<td>Pneumopericardium: a rare complication of esophageal cancer.</td>
<td>M.E. Tundidor Sanz (Valladolid, ES)</td>
</tr>
<tr>
<td>09:20</td>
<td>Left atrial dissection after myocardial infarction</td>
<td>R.A. Guerrero (Evora, PT)</td>
</tr>
<tr>
<td>09:30</td>
<td>Late appearance of a ventricular septal defect after transcatheter aortic valve replacement: a rare complication</td>
<td>C. Marini (Milan, IT)</td>
</tr>
<tr>
<td>09:40</td>
<td>Doppler flow velocities pattern in a trombophilic patient with an Ivd thrombosis</td>
<td>A. Cereda (Airuno, IT)</td>
</tr>
<tr>
<td>09:50</td>
<td>An unusual cause of aortic diastolic reflux in a failed single ventricle palliation</td>
<td>D.M. Dorobantu (Bucharest, RO)</td>
</tr>
</tbody>
</table>
Saturday 10 December 2016 - Morning Sessions

**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.

**10:00 - 11:00**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</thead>
<tbody>
<tr>
<td>10:00</td>
<td>Panel of experts:</td>
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<tr>
<td></td>
<td>A.S. Pearlman (Seattle, US); K. Hristova (Sofia, BG)</td>
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<tr>
<td>10:00</td>
<td>Don't overlook Fabry disease as an aetiology of hypertrophic cardiomyopathy</td>
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<tr>
<td></td>
<td>S.H. Park (Daejeon, KR)</td>
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<tr>
<td>10:10</td>
<td>Severe mitral valve damage after MitraClip</td>
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<td>B. Ren (Rotterdam, NL)</td>
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<tr>
<td>10:20</td>
<td>Arrhythmogenic right ventricular dysplasia versus shunt</td>
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<td></td>
<td>A.M. Jamiel (Riyadh, SA)</td>
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<tr>
<td>10:30</td>
<td>A thrombus that stops the giant</td>
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<td>A.M. Ragab (Cairo, EG)</td>
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<tr>
<td>10:40</td>
<td>The milk bottle echo</td>
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<tr>
<td></td>
<td>P.V. Parekh (Singapore, SG)</td>
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<tr>
<td>10:50</td>
<td>Myocardial fibrosis in rheumatic mitral stenosis: quantitative evaluation by TI mapping</td>
</tr>
<tr>
<td></td>
<td>E. Sahara (Tangerang, ID)</td>
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</tbody>
</table>

**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.

**10:00 - 11:00**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>10:00</td>
<td>What causes mitral annulus dilatation-A three dimensional study</td>
</tr>
<tr>
<td></td>
<td>V. Boileve, J. Dreyfus, D. Attias, I. Codogno, E. Brochet, A. Vahanian, D. Messika-Zeitoun (Paris and Saint Denis, FR)</td>
</tr>
<tr>
<td>10:00</td>
<td>Impact of interventional edge-to-edge repair with the MitraClip system on mitral valve geometry: Long-term results from a prospective single centre study.</td>
</tr>
<tr>
<td>10:00</td>
<td>Real life applications of three-dimensional echocardiographic quantification of the left atrial volumes using an adaptive automated analytics algorithm</td>
</tr>
<tr>
<td>10:00</td>
<td>Quantitative ultrasound evaluation of the changes on tissue characteristics of carotid plaques by lipid lowering therapy</td>
</tr>
<tr>
<td>10:00</td>
<td>Effort heart rate increase is an independent predictor of longitudinal function reserve in the trained heart: a stress echocardiography study.</td>
</tr>
<tr>
<td></td>
<td>F. Lo Iudice, C. Santoro, A. Buonauro, M. Ferrone, R. Esposito, B. Trimarco, M. Petitta, M. Galdenski (Naples, IT)</td>
</tr>
<tr>
<td>10:00</td>
<td>Incremental value of strain imaging in classification of heart failure with normal ejection fraction</td>
</tr>
<tr>
<td></td>
<td>O.S. Andersen, E. Gude, A.K. Andreassen, K. Broch, H. Skulstad, O.A. Smiseth, E.W. Remme (Oslo, NO)</td>
</tr>
<tr>
<td>10:00</td>
<td>Multimodality work-up of young stroke patients is beneficial</td>
</tr>
<tr>
<td>10:00</td>
<td>Prognostic significance of the hemodynamic non-invasive assessment in patients with dilated cardiomyopathy</td>
</tr>
<tr>
<td></td>
<td>M. Merlo, D. Stolfi, M. Gobbo, G. Gabassi, G. Barbati, A. De Luca, R. Korcova, G. Secoli, B. Pinamonti, G. Sinagra (Trieste, IT)</td>
</tr>
</tbody>
</table>
Saturday 10 December 2016 - Morning Sessions

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)

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  Heart failure.
E. Donal (Rennes, FR)

11:15  New technologies.
B. Cosyns (Brussels, BE)

11:30  Valve.
J. Magne (Limoges, FR)

11:45  Congenital heart disease.
O. Miller (London, GB)

12:00  Computed tomography.
A. Gimelli (Pisa, IT)

12:15  Cardiovascular magnetic resonance.
C. Bucciarelli-Ducci (Bristol, GB)

11:00 - 12:30  Symposium  WAGNER

The forgotten regurgitation

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

11:00  Tips and tricks in tricuspid valve evaluation : from M-mode to 3D.
D. Muraru (Padua, IT)

11:22  Assessment of tricuspid regurgitation before left-sided valve intervention.
T. Le Tourneau (Nantes, FR)

11:45  How to assess tricuspid prosthesis and ring : the role of multi-imaging modalities.
A. Ionescu (Swansea, GB)

12:07  Tricuspid regurgitation after left-sided valve intervention.
J. Mascherbauer (Vienna, AT)

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  What is new in Constrictive pericarditis.
R. Sattarzadeh Badkoubeh (Tehran, IR)

11:22  Deformation imaging.
N. Samiei (Tehran, IR)

11:45  Tamponade.
M. Imazio (Torino, IT)

12:07  CMR in pericardial disease.
F. Alpendurada (London, GB)
### Saturday 10 December 2016 - Morning Sessions

#### Teaching Course

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00</td>
<td>Cardiac tumor</td>
<td>J. Separovic Hanzevacki (Zagreb, HR)</td>
</tr>
<tr>
<td>11:22</td>
<td>Thromboembolism risk assessment in atrial fibrillation</td>
<td>P. Colonna (Bari, IT)</td>
</tr>
<tr>
<td>11:45</td>
<td>Intra-cardiac thrombus</td>
<td>K. Yiangou (Nicosia, CY)</td>
</tr>
<tr>
<td>12:07</td>
<td>Role of contrast echo and cardiovascular magnetic resonance</td>
<td>H. Vago (Budapest, HU)</td>
</tr>
</tbody>
</table>

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.

#### Symposium

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Speaker</th>
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</thead>
<tbody>
<tr>
<td>11:00</td>
<td>Role of echocardiography in the management of acute myocardial infarction.</td>
<td>M. Alrefai (Dammam, SA)</td>
</tr>
<tr>
<td>11:22</td>
<td>Role of CMR and CT in the management of acute myocardial infarction.</td>
<td>L. Biere (Angers, FR)</td>
</tr>
<tr>
<td>11:45</td>
<td>Role of echocardiography in the management ischaemic mitral regurgitation.</td>
<td>J. Alrahimi (Jeddah, SA)</td>
</tr>
<tr>
<td>12:07</td>
<td>Role of CMR and CT in the management of ischaemic mitral regurgitation.</td>
<td>G. Pontone (Milan, IT)</td>
</tr>
</tbody>
</table>

Joint session with the Saudi Heart Association (SHA)

Chairpersons: A.J. Kinsara (Jeddah, SA); A. Moreo (Milan, IT)
Saturday Posters
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.
<table>
<thead>
<tr>
<th>Poster session 6</th>
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<tbody>
<tr>
<td><strong>Assessment of morphology and function</strong></td>
<td></td>
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<tr>
<td>Multimodality imaging for left atrial appendage occluder sizing</td>
<td>P1222</td>
</tr>
<tr>
<td>R. Wassmuth, H. Minden (Hennigsdorf, DE)</td>
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<tr>
<td>Longitudinal left atrial strain is a main predictor for long term prognosis on atrial fibrillation after CABG operation patients</td>
<td>P1223</td>
</tr>
<tr>
<td>K. Hristova, V. Kostova, N. Nesheva, T.Z. Katova, L. Bojadzhiev (Sofia, BG)</td>
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<tr>
<td>Comparison of 2D and 3D left ventricular volumes: results from the SKIPOGH II study</td>
<td>P1224</td>
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<tr>
<td>Adjusting for thoracic circumference is superior to body surface area in the assessment of neonatal cardiac dimensions in foetal growth abnormality</td>
<td>P1225</td>
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<tr>
<td>Maximal vortex suction pressure: an equivocal marker for optimization of atrio-ventricular delay</td>
<td>P1226</td>
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<tr>
<td>Volume-time curve of cardiac magnetic resonance assessed left ventricular dysfunction in coronary artery disease patients with type 2 diabetes mellitus</td>
<td>P1227</td>
</tr>
<tr>
<td>X. Huayan, Y.A.N.G. Zhigang, G.U.O. Yingkun, C.H.E.N. Jing (Chengdu and Cheng du, CN)</td>
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<tr>
<td>Thickness matters, but not in the same way for all strain parameters.</td>
<td>P1228</td>
</tr>
<tr>
<td>Digging deeper in postoperative modifications of right ventricular function: impact of pericardial approach and cardiopulmonary bypass</td>
<td>P1229</td>
</tr>
<tr>
<td>C. Loardi, M. Saccoci, G. Tamborini, F. Veglia, M. Pepi, F. Alamanni, M. Zanobini (Milan, IT)</td>
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<tr>
<td>Left atrial function evaluated by 2D-speckle tracking echocardiography in diabetes mellitus population.</td>
<td>P1230</td>
</tr>
<tr>
<td>J. Moreno, J.J. Zuniga Sedano, E. Alexanderson, C. Martinez (Guadalajara and Mexico City, MX)</td>
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<tr>
<td>The influence of arterial hypertension duration on left ventricular diastolic parameters in patients with well regulated blood pressure</td>
<td>P1231</td>
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<tr>
<td>T. Mlijnikov, M. Bjelobrk, K. Pavlovic, A. Ilc, S. Colakovic, S. Dodic (Sremjska Kamenica, RS)</td>
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<tr>
<td>Investigation of factors affecting left ventricular diastolic dysfunction determined using mitral annulus velocity</td>
<td>P1232</td>
</tr>
<tr>
<td>H. Takase, T. Tanaka, M. Machii, D. Nonaka (Hamamatsu, JP)</td>
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<tr>
<td><strong>Ischaemic heart disease</strong></td>
<td></td>
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<tr>
<td>High resolution T-lymphocytes after ST-elevation myocardial infarction relate with adverse left ventricular remodelling assessed by 3D-echocardiography.</td>
<td>P1233</td>
</tr>
<tr>
<td><strong>Heart valves</strong></td>
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<tr>
<td>Prevalence of paradoxical low flow/low gradient severe aortic stenosis measure with 3 dimensional transoesophageal echocardiography</td>
<td>P1234</td>
</tr>
<tr>
<td>R. Henquin, M. Lombardero, G. Perea (Buenos Aires, AR)</td>
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<tr>
<td>Coronary microvascular and diastolic dysfunctions after aortic valve replacement: comparison between mechanical and biological prostheses.</td>
<td>P1235</td>
</tr>
<tr>
<td>R. America, M.M. Miele, D.A.V. De Amicis, V.A.M. Mannacio (Naples and Mercogliano, IT)</td>
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<tr>
<td>Normal-flow, low gradient aortic stenosis is common in a population of patients with severe aortic valve stenosis undergoing aortic valve replacement</td>
<td>P1236</td>
</tr>
<tr>
<td>R. Carter-Storch, J.S. Dahl, N.L. Christensen, E.V. Soendergaard, N. Marcussen, J.E. Moeller (Odense, DK)</td>
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<tr>
<td>Analysis of validity and reproducibility of calcium burden visual estimation by echocardiography</td>
<td>P1237</td>
</tr>
<tr>
<td>M.L. Paneo, C. Fernandez-Palomeque, D. Garcia-Vega, L. Mont-Girbau (Sant Cugat del Vallès, Palma de Mallorca and Barcelona, ES)</td>
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<tr>
<td>3D full automatic software in the evaluation of aortic stenosis severity in TAVI patients. Preliminary results</td>
<td>P1238</td>
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<tr>
<td>Differential impact of net atrioventricular compliance on clinical outcomes in patients with mitral stenosis according to cardiac rhythm</td>
<td>P1239</td>
</tr>
<tr>
<td>Aortic regurgitation affects the intima-media thickness of the right and left common carotid artery differently</td>
<td>P1240</td>
</tr>
<tr>
<td>J. Petrini, M. Ring, K. Caidahl, M.J. Eriksson (Stockholm, SE)</td>
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<tr>
<td>Global longitudinal strain: an hallmark of cardiac damage in mitral valve regurgitation. Experience from the European registry of mitral regurgitation</td>
<td>P1241</td>
</tr>
<tr>
<td>A. Buonauro, R. Esposito, C. Santoro, J.M. Monteagudo, M. Galderisi, J.L. Zamorano (Naples, IT; Madrid, ES)</td>
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<tr>
<td>Echocardiographic characterisation of Barlow’s disease versus fibroelastic deficiency</td>
<td>P1242</td>
</tr>
<tr>
<td>B. Liu, S. Baig, M. Hayer, R. Steeds, N. Edwards (Birmingham, GB)</td>
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<tr>
<td>Echocardiographic screening for rheumatic heart disease in a Ugandan orphanage - feasibility and outcomes</td>
<td>P1243</td>
</tr>
<tr>
<td>M. Mapelli, L. Fusini, M. Muratori, P. Agostoni, G. Tamborini, P. Gnipari, S. Ghulam Ali, M. Pepi, C. Fiorentini (Milan and Modena, IT)</td>
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<tr>
<td>Alterations in right ventricular mechanics upon follow-up period in patients with persistent Ischaemic mitral regurgitation after interprosthetic myocardial infarction</td>
<td>P1244</td>
</tr>
<tr>
<td>E. Tamulenaite, Z. Valuckiene, R. Jurkevicius (Kaunas, LT)</td>
<td></td>
</tr>
</tbody>
</table>
Saturday 10 December 2016 - Posters

Ten-years conventional mitral surgery in patients with mitral regurgitation and left ventricular dysfunction: clinical and echocardiographic outcomes  
P1245  
B. De Chiara, A. Pentore, L. Botti, 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 transesophageal echocardiography  
P1246  
F. Ancona, C. Marini, S. Stella, I. Rosa, A. Margonato, E. Agricola (Milan, IT)

Surgical therapy in infective endocarditis: predisposing and prognostic factors  
P1247  
R. Ilhao Moreira, M. Coutinho Cruz, L. Moura Branco, A. Galinho, L. Coutinho Miranda, A.T. Timoteo, A. Viveiros Monteiro, G. Portugal, J. Fraga, R. Cruz Ferreira (Lisbon, PT)

Evaluation of MV annulus geometry modifications before and after mitractil implantation with 3D transesophageal echocardiography.  
P1248  
V. Lavanco, L.A. Leo, E. Pasotti, I.F. Faletra, T. Moccetti (Lucano, CH)

Prognostic echocardiographic parameters for successful transcatheter edge-to-edge mitral valve repair  
P1249  
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?  
P1250  

Outcome of paradoxical low-low gradient severe AS following TAVI: paradoxical VS parallel to outcome of high gradient AS  
P1251  

Prognostic role of cardiac calcifications in subjects over 75 with severe heart disease and previous cardiovascular events: is there an additive value over cardiovascular risk factors scores?  
P1252  

Aging degeneration of mitral valve without leaflet prolapse or tethering as a cause of severe mitral regurgitation  
P1253  
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  
P1254  

Cardiac valve calcium score: simple 2D echocardiographic tool for cardiovascular risk stratification in patients with chronic renal failure.  
P1255  
C. Papadopoulos, K. Mpaitournas, K. Triantafyllou, A. Fotoglidis, E. Kassimatis, E. Sampani, E. Papagianis, G. Kotsiourou, V. Vassilkos (Thessaloniki, GR)

Diastolic mitral regurgitation following transcatheter aortic valve replacement: prevalence, predictors and impact on outcomes  
P1256  
N. Flint, Z. Rozenbaum, Y. Topilsky, S. Biner, A. Finkelstein, S. Banai, G. Keren, A. Halkin (Tel Aviv, IL)

Cardiomyopathies  
Timing of myocardial shortening determines left ventricular regional remodelling in hearts with conduction delays  
P1257  
M. Grive, 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  
P1258  
O. Villeman, M. Correia, D. Ktraiche, M. Pernot, D. Bonnet (Paris, FR)

Assessment of right ventricular pressure to exercise using vector velocity imaging in hypertrophic cardiomyopathy  
P1259  
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  
P1260  
K. Hu, D. Liu, P. Nordbeck, S. Herrmann, G. Ertl, F. Weidemann, S. Steerk (Wuerzburg and Unna, DE)

Right ventricular global longitudinal strain differences between adolescent patients with definite, borderline and possible ARVC and controls  
P1261  

echocardiographic predictive factors of atrial arrhythmias in patients with arrhythmogenic right ventricular dysplasia  
P1262  
A. Zarou, 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  
P1263  

Chronicotropic response in mitochondrial (ANT1) cardiomyopathy  
P1264  
D. Chowdury, C. Pascua, K. Strauss, E. Puffenberger, B. Bijnen (Lancaster, Philadelphia and Strasbourg, US; Barcelona, ES)

The effect of cardiovascular risk factors and cancer type in anthracycline’s cardiotoxicity  
P1265  
A.G. Gomes, L.R. Lopes, A.G. Ferreira, M. Correia, H. Marsinho, H. Pereira (Almada, PT)

Revisiting the echocardiographic features of acute myocarditis  
P1266  

Altered circulation in fetuses of diabetic mothers: a fetal computational model analysis  
P1267  
A. Kulkami, P. Garcia Canadilla, A. Khan, K. Beckerman, F. Crispi, M. Cruz-Lemini, B. Valenzuela Alcaraz, O. Gomez, E. Gratacos, B. Bijnen (Bronx NY, US; Barcelona, ES)

Increased epicardial adipose tissue is related to stress-induced cardiomyopathy  
P1268  
S.M. Park, M.N. Kim, W.J. Shim (Seoul, KR)
Saturday 10 December 2016 - Posters

Systemic diseases and other conditions

Contrast enhanced ultrasound of kidney perfusion in patients with renal artery stenosis: diagnostic and prognostic applications. (Florence, Rome, Trieste and Pisa, IT; Zagreb, HR; Anchorage and Philadelphia, US)

Effects of blood pressure variability on layer-specific longitudinal strain in hypertension

Left atrial dynamics and diastolic function in hypertensive patients

Echocardiographic evaluation of right ventricular function in patients with chronic obstructive pulmonary disease in comparison with healthy group

Congenital heart disease

Long term course of bicuspid aortic valve in patients with and without associated cardiac malformations.

A single-centre, retrospective cohort study

Stress echo

Next generation stress echo computerized software (SECS)

Non invasive hemodynamic profile of patients developing inducible ischemia at dobutamine stress echocardiography: a global longitudinal strain investigation

Silent myocardial ischaemia is highly prevalent in patients with chronic obstructive pulmonary disease referred for dobutamine stress echocardiography

Silent chronic obstructive pulmonary disease is highly prevalent in patients referred for dobutamine stress echocardiography with shortness of breath

Transesophageal echocardiography

Mitrail annular plane systolic excursion as additional evaluation for left ventricular ejection fraction
Tissue Doppler and speckle tracking
Right ventricle deformation indices discriminate better than left ventricle deformation indices and fractional shortening between healthy and hypothermia treated asphyxiated neonates
E. Nestaas, A. Stoylen, D. Fugelseth (Oslo and Trondheim, NO) P1292

Determinants of myocardial strain in chronic myocardial infarction

Evaluation of right atrium mechanics and relation with loading conditions by speckle tracking echocardiography
S. Unlu (Leuven, BE) P1294

Late detection of left ventricular dysfunction using 2D and 3D speckle-tracking in patients with history of non-severe acute myocarditis

The impact of abnormal circadian BP profile on left atrial function by 2D speckle tracking echocardiography and its effect on functional capacity in hypertensive patients
T. Ahmed, M. Naiem, A. Mazen, E. Samy (Cairo, EG) P1296

Determinants of myocardial strain in chronic myocardial infarction

Evaluation of right atrium mechanics and relation with loading conditions by speckle tracking echocardiography
S. Unlu (Leuven, BE) P1294

Late detection of left ventricular dysfunction using 2D and 3D speckle-tracking in patients with history of non-severe acute myocarditis

The impact of abnormal circadian BP profile on left atrial function by 2D speckle tracking echocardiography and its effect on functional capacity in hypertensive patients
T. Ahmed, M. Naiem, A. Mazen, E. Samy (Cairo, EG) P1296
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Index
Chairpersons / Judges
Name/Page Number

Afilalo J.: 115
Agricola E.: 131
Alpendurada F.: 71
Andrade M.J.: 132, 134
Antonini-Canterin F.: 102
Athanassopoulos G.: 68
Badano L.: 66, 75
Baghdasaryan L.: 75
Barker P.: 73
Becher H.H.: 69
Benyoussef S.: 133
Bergler-Klein J.: 40, 98
Bernard A.: 46
Binder T.: 131
Bharucha T.: 63, 78
Bogdan R.: 131
Brouwer M.: 104
Brown A.S.: 64
Bucciarelli-Ducci C.: 42
Budts W.: 36, 78, 99
Bullock B.: 106
Buck T.: 73
Bucciarelli-Ducci C.: 42
Budts W.: 36, 78, 99
Cardim N.: 45, 66, 77
Casella M.S.: 130
Caso P.: 102
Cavalcante J.L.: 72
Chambers J.: 109
Chammas E.: 130
Chioncel O.: 131
Chow C.M.: 47, 76
D'hooge J.: 77
Delgado V.: 66, 75
Della Corte A.: 66
Donal E.: 37, 63
Dorobantu M.: 70
Dragulescu A.: 107
Dweck M.: 75
Efimova A.: 100, 115
Garbi M.: 47
Ghio S.: 37
Gillam L.D.: 98
Gimelli A.: 105
Gorcsan J.: 101
Govind S.C.: 133
Grapsa J.: 51, 64, 110, 133
Grotenhuis H.: 36
Habib G.: 48, 67, 75, 101
Hacker M.: 67
Hagendorff A.: 41, 81
Hassager C.: 101
Haugaa K.H.: 65, 108
Henein M.: 76
Herbots L.: 107
Herzog B.: 42
Hindricks G.: 63, 101
Hristova K.: 46
Hung J.: 63
Huttin O.: 105
Iliesiu A.M.: 74
Inart X.: 107
Jaber W.: 131
Kamp O.: 44, 77
Karppinen A.: 62
Kataoka A.: 115
Katakas M.: 66
Kaufmann P.A.: 131
Kaul S.: 65
Kinsara A.J.: 134
Kiskel J.K.: 37
Kistou A.N.: 66, 98, 110
Klein A.: 101, 98, 65
Knudt J.M.: 65
Kolias T.: 99
Kreidel F.: 60
Kuck K.H.: 72
La Canna G.: 39
La Gerche A.: 103, 105
Lafitte S.: 37
Lancellotti P.: 40, 104, 109, 111
Lapinskas T.: 51
Lel-Cohen N.: 68
Lipiec P.: 64, 98
Loizos P.: 47, 51
Lombardi M.: 71
Lopez L.: 70, 110
Mascherbauer J.: 40
Mattkephsliveli S.: 109
Maurer G.: 72, 75
Mertens L.: 36, 70
Mihaleanu S.: 77
Miglioranza M.H.: 51
Miller O.: 36
Mohty D.: 72, 100
Monaghan M.J.: 38, 65, 69
Moro A.: 101, 134
Momo C.: 134
Mukherjee C.M.: 39
Muranu D.: 62
Nakatani S.: 109
Narula S.: 81, 115, 130
Narula J.: 81, 108
Neglia D.: 67, 65
Nesovcic A.N.: 76, 102
Nesser H.J.: 69, 99
Nicolosi G.L.: 107
Niemann K.: 43, 101
Nihoyannopoulos P.: 64, 69, 98
Nijveldt R.: 42
Nikolai P.: 60
Ojahd Haghighi S.Z.: 133
Ozer N.: 106
Paelinck B.: 44, 67
Parato V.M.: 130
Park S.W.: 72
Pasquet A.: 66
Pavasini R.: 44
Pellin D.P.: 109
Pepi M.: 39
Perez De Isla L.: 132
Perrone-Filardi P.: 73, 109
Pierard L.A.: 76, 102
Plein S.: 115
Ponskaja-Goncniak E.: 40, 99
Pontone G.: 68
Popescu B.A.: 48, 63, 75, 98, 133
Price S.: 81, 98
Pugliese F.: 43, 68
Pushparajah K.: 104, 110
Rigolin V.: 37, 75
Ristic A.D.: 64
Rudolph V.: 45
Rusk L.: 73
Sade LE.: 106
Salustri A.: 77, 132
Saraste A.: 109
Scholte A.J.H.A.: 105
Schwammenthal E.: 107
Sengupta P.P.: 133
Sengupta S.: 107
Senior R.: 72, 100, 110
Separovic Hanzevacki J.: 46
Sicari R.: 103, 108
Simpson J.: 73
Singh M.: 37
Stoebe S.: 46, 51, 81
Surkova E.: 66, 108
Swamn M.J.: 130
Ten Cate F.C.: 38
Thomas J.D.: 67
Unger P.: 106
Valsangiacomo Buechel E.R.: 42
Van Den Bosch A.: 36, 38, 104
Van Der Bilt L.C.A.: 45
Van Melle J.: 64
Varga A.: 102
Vidal Perez R.C.: 51, 130
Vletter-McGhie J.: 36
Von Bardeleben R.S.: 41, 45, 60, 63, 69
Weidemann F.: 75
Weissman N.: 73
West C.: 81, 108
Wendler O.: 40
Yotov Y.T.: 106
Abidin N.: 407
Addetia K.: 113
Afiafo J.: P914
Agcola E.: 1164
Aguirrosa S.: 802, P610
Ajmone Marsan N.: 110, 7
Allen L.: 753
Almeida A.M.G.: 26, 81, 870
Almeida Morais L.: P612
Alpendurada F.: 1212, 48
Alrahimi J.: 1219
Alrefai M.: 1217
Amanullah M.R.: P945
Andreini D.: 341
Anwer S.: P506
Aouad A.: 335
Ariani R.: P514
Aristizabal Duque C.H.: P944
Arzanauskaite M.: 852
Athanassopoulos G.: 784
Badano L.: 9
Badea R.G.: 903
Badimon L.: 147
Bandera F.: 399
Barker P.: 288, 469
Bartolome Mateos S.: 858
Baumgartner H.: 400
Becher H.H.: 364, 366, 466
Beladan C.C.: 345
Belghiti H.: 336
Bellsham-Revell H.: P515
Bereda J.: 853
Bouchez S.: 56
Boutsikou M.: P953
Brow J.: 403
Breithardt O.A.B.: 392, 767, 911
Brochet E.: 280, 337
Bruckheimer E.: 412
Bucciairelli-Ducci C.: 1204, 155, 295, 340
Buechel R.R.: 1162
Butter C.: 125
Cain A.: 780
Cambreron Cortinas E.: 899, P1047
Cameli M.: 343, 428, 463, 861
Cameli M.: Page 61
Cameli M.: Page 96
Carbone A.: P519
Cardm N.: 909, 301
Carerj S.: 874
Casadei F.: 1176, 855
Castano A.: 836
Cavalcante JL.: 1152
Cazzoli I.: P1062
Cereda A.: 1181
Chambers B.: 825, 889
Cherubini A.C.: 787
Chivulescu M.: P1058
Ciampi Q.: 731
Cifra B.: 846
Cikes M.: 418
Cirillo C.: 428, 434
Cirillo C.: Page 61
Cito R.: 293
Claud P.: 831
Clavel M.-A.: 1155, 37
Cohen A.: 829
Colonna P.: 1124
Coman I.M.: 291
Cosyns B.: 1200, 15, 155
Coutinho Cruz M.: P942
Cremers P.: 1169, 1172
Cuddy S.: 805, P619
D’Alto M.: 439
D’Andrea A.: 322
D’hoooge J.: 112
Dehaene L.: 127
Dawson D.: 1158
de Santos M.: P951
Deboonnaire P.: 769
Delgado V.: 1153, 49, 757, 824
Di Salvo G.: 393, 897
Donal E.: 1199, 155, 282, 759, 877
Dorobantu D.M.: 1182, P624
Dragulescu A.: 287, 52
Dudink E.A.M.P.: 786
Dulgheru R.E.: 775
Dweck M.: 437, 898
Edvardsen T.: 276
Efimova A.: P914
Eidem B.W.: 286
Eitel I.: 68
El Khoury G.: 888
Elsharkawy E.: P609
Ender J.: 117
Enriquez-Sarano M.L.: 778, 779
Enzan N.: P613
Erb J.M.: 119
Erol C.: 849
Faggiano P.: 732
Faletta F.F.: 1221, 17, 468, 751, 862, 868
Faieta F.F.: Page 97
Fan Y.: 838
Fattouch K.: 397
Fehse W.: 21
Flachskampf F.: 327, 434
Flachskampf F.: Page 61
Florian A.: 1167
Fontes Carvalho R.: 326, 910, 913
Fox K.F.: 300, 793, 898
Fox K.F.: Page 96
Franca O.: 797
Franke A.: 739
Fraser A.G.: 150, 716, 755
Friedberg M.K.: 3
Frigiola A.: 799, 844
Fumssi G.O.: P952
Gackowski A.: 723
Gaemperli O.: 135, 157, 447, 762, 795
Galdernisi M.: 321, 832, 875
Galli E.: 715
Galschinky C.: 451
Garbi M.: 740, 861
Garbi M.: Page 96
Gargani L.: 298, 876
Gerber B.L.M.: 741
Giannakopoulos G.: P1048
Giannaris S.: 434, 867
Giannaris S.: Page 61
Giannaris S.: Page 96
Giovanni A.: P508
Gillam L.D.: 881
Gimelli A.: 1203
Giubertoni A.: P620
Gomes A.C.: P1060, P949
Gomez A.: 411
Goncalves A.: 457
Gorcsan J.: 284, 8
Goritz Magna J.: P507
Grapsa J.: 464, 793, P160
Grapsa J.: Page 96
### Speakers

Name/Index Number

- Grimm R.A.: 46
- Grotenhuis H.: 469
- Guaracino F.: 55
- Guerreiro R.A.: 1179
- Gurzun M.M.: 310

### Imaging Campus Presenters

Name/Page Number

- Grimm R.A.: 46
- Grotenhuis H.: 469
- Guarracino F.: 55
- Guerreiro R.A.: 1179
- Gurzun M.M.: 310
- Gutberlet M.: 27, 449
- Habib G.: 146, 152, 153, 158, 296
- Hahn R.: 1154, 279, 319
- Haugaa K.H.: 443
- Hayashida A.: P511
- Helbing W.A.: 735, 736
- Hyung-Kwan H.K.: 717
- Ilhao Moreira R.: P1046
- Illes B.: 39
- Imazio M.: 1211
- Ionescu A.: 1207, 395
- Iriart X.: 43, 895
- Iung B.: 120
- Jaber W.: 1172, 766
- Jacobs J.: 85
- Jamiel A.M.: 1186, P513
- Jurcut R.O.: 772
- Jurko A.: P1061
- Kagiyama N.: 837
- Kalcik M.: 804
- Kalimanovska-Ostric D.: P1052
- Kammerlander A.: 788
- Kamp O.: 737
- Kapetanakis S.: 741
- Karabag T.: P502
- Kasprzak J.D.: 11, 724
- Kataoka A.: P914
- Katbe A.: P509, P914
- Kaufmann P.A.: 1172
- Kaul S.: 405
- Kautzner J.: 765
- Kemal H.S.: P625, P955
- Kemaloglu Oz T.: P615, P939
- Kerkhove D.G.R.: 872
- Kinova E.: 833
- Klein A.: 878
- Knust J.M.: 333, 448, 760
- Kolias T.: 391
- Koyama J.: 880
- Kreidel F.: 22, 80
- Krings G.: 414
- Kronzon I.: 912
- Kukulski T.: 419, 738, 828
- Kutty S.: 713
- La Canna G.: 57
- La Gerche A.: 273
- Lancellotti P.: 154, 798
- Lancellotti T.: 893, P160
- Laser K.T.: 51
- Lavorgna A.: 859
- Laymouna R.: 905
- Le Tourneau T.: 1206, 445
- Lech P.: P501
- Lembo M.: P512
- Lindqvist P.: 442
- Little S.H.: 890
- Lo Ludice F.: P510
- Loizos S.: P160
- Lombrani M.: 28, 763
- Lopez Fernandez T.: 362
- Lopez L.: 896
- Lopez Pas J.: P954
- Lumens J.: 281, 6, 839
- Magna J.: 1201, 435, 59
- Mahmoud H.M.: 750

#### Mahmoud H.M.: Page 96

- Malischig G.P.: 752
- Mandes L.A.: 800
- Manka R.M.: 67
- Mankad S.: 770
- Marini C.: 810, 900
- Marino P.N.: 873
- Marques A.: 40
- Marques L.: H2, P946
- Martin B.: 428, 861

##### Martin B.: Page 61

- Martinez Quesada M.M.: 41
- Marwar M.: 30, 72
- Mascherbauer J.: 1208
- Mata Caballero R.: 84
- Mateskeplashvili S.: 909
- Maurer G.: 884
- Maurovich-Horvat P.: 133, 346, 73
- McCann G.P.: 130, 69
- Mercer-Rosa L.: 845
- Mertens L.: 44, 733
- Messas E.: 404
- Messorghi D.: 128, 25

#### Michalski B.W.: 410, 750

- Michalski B.W.: Page 96

### Index

<table>
<thead>
<tr>
<th>Sections</th>
<th>Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>SATURDAY</td>
<td>POSTERS</td>
</tr>
<tr>
<td>SATURDAY</td>
<td>SESSIONS</td>
</tr>
<tr>
<td>FRIDAY</td>
<td>POSTERS</td>
</tr>
<tr>
<td>FRIDAY</td>
<td>SESSIONS</td>
</tr>
<tr>
<td>SATURDAY</td>
<td>POSTERS</td>
</tr>
<tr>
<td>SATURDAY</td>
<td>SESSIONS</td>
</tr>
<tr>
<td>WEDNESDAY</td>
<td>POSTERS</td>
</tr>
<tr>
<td>WEDNESDAY</td>
<td>SESSIONS</td>
</tr>
</tbody>
</table>

146
<table>
<thead>
<tr>
<th>Speakers Name/Index Number</th>
<th>Imaging Campus Presenters Name/Page Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pelliccia F.: 1159</td>
<td>Van De Veire N.: 109</td>
</tr>
<tr>
<td>Perez De Isla L.: 356</td>
<td>van den Brink R.B.A.: 406</td>
</tr>
<tr>
<td>Petero Vazquez J.C.: P950</td>
<td>Van Der Bilt L.A.C.: 889</td>
</tr>
<tr>
<td>Pfeiffer B.: P617</td>
<td>van der Maaten J.: 14</td>
</tr>
<tr>
<td>Pibarat P.: 19, 396, 438</td>
<td>Van Der Vlugt M.J.: 292</td>
</tr>
<tr>
<td>Pielies G.E.: 764</td>
<td>Vancraeynest D.: 761</td>
</tr>
<tr>
<td>Pierard L.A.: 826</td>
<td>Vandervoort P.M.: 841</td>
</tr>
<tr>
<td>Piorkowski C.: 764</td>
<td>Varga A.: 1173</td>
</tr>
<tr>
<td>Piro Mastracchio V.: P948</td>
<td>Velasco Forte M.N.: 413</td>
</tr>
<tr>
<td>Pimentel S.: 774</td>
<td>Velteea A.E.: P611</td>
</tr>
<tr>
<td>Plein S.: 1170, 1172, 156, 330, P914</td>
<td>Venner C.: 144</td>
</tr>
<tr>
<td>P indo G.: 726</td>
<td>Vered Z.: 415</td>
</tr>
<tr>
<td>Pomanidou K.: 726</td>
<td>Veira M.: 1156, 394</td>
</tr>
<tr>
<td>Pugliese F.: 29, 71</td>
<td>Vijiac A.E.: P938</td>
</tr>
<tr>
<td>Pushparajah K.: 2</td>
<td>Vilacosta L.: 121</td>
</tr>
<tr>
<td>Rademakers F.E.: 1198</td>
<td>Vletter-McGhie J.: 10, 105</td>
</tr>
<tr>
<td>Rajamannan N.: 18</td>
<td>Volland D.: 441</td>
</tr>
<tr>
<td>Rigolin V.: 771</td>
<td>Von Luender T.G.: 719</td>
</tr>
<tr>
<td>Risum N.: 5</td>
<td>Wang T.L.: P614</td>
</tr>
<tr>
<td>Rodrigues Goncalves L.: 1177</td>
<td>Watanabe N.: 721</td>
</tr>
<tr>
<td>Rodriguez Palomares J.F.: 1166, 328</td>
<td>Weidemann F.: 911, 913</td>
</tr>
<tr>
<td>Rojo Prieto N.: P621</td>
<td>West C.: 1160, P478</td>
</tr>
<tr>
<td>Rosca M.: 827</td>
<td>Westwood M.: 433</td>
</tr>
<tr>
<td>Rudolph V.: 23, 24, 78</td>
<td>Wong C.Y.: P1049, P516</td>
</tr>
<tr>
<td>Rudski L.: 289, 444</td>
<td>Woolf A.: P518</td>
</tr>
<tr>
<td>Ruvo C.: P622, P947</td>
<td>Wouters PF.: 116</td>
</tr>
<tr>
<td>Sade E.: 334, 390, 910</td>
<td>Wright S.: 310, 750</td>
</tr>
<tr>
<td>Sage A.: 714, 848</td>
<td>Wright S.: Page 96</td>
</tr>
<tr>
<td>Sahara E.: 1189</td>
<td>Wunderlich N.C.: 124</td>
</tr>
<tr>
<td>Sambuceti G.: 283</td>
<td>Yangou K.: 1215, 81, 910</td>
</tr>
<tr>
<td>Samiei N.: 1210</td>
<td>Yoshida S.: 143</td>
</tr>
<tr>
<td>Santoro C.: 906</td>
<td>Yurdakul S.: 1173</td>
</tr>
<tr>
<td>Sanz Sanchez J.: P943</td>
<td>Zhubovski N.: 1175</td>
</tr>
<tr>
<td>Sarwar R.: 891</td>
<td>Zito C.: 781, 785</td>
</tr>
<tr>
<td>Sattarzadeh Badkoubeh R.: 1209</td>
<td>Zoghbi W.A.: 847</td>
</tr>
<tr>
<td>Saundankar J.: 843</td>
<td></td>
</tr>
<tr>
<td>Savelev A.: 82</td>
<td></td>
</tr>
<tr>
<td>Savis A.: 106</td>
<td></td>
</tr>
<tr>
<td>Schaefers H.-J.: 123</td>
<td></td>
</tr>
<tr>
<td>Schindler TH.: 1171, 1172</td>
<td></td>
</tr>
<tr>
<td>Schmid J.-P.: 730</td>
<td></td>
</tr>
</tbody>
</table>
Authors
Name/Index Number

Miniera E.: P91
Miniero E.: P94
Minisi R.: P683
Ministeri M.: P190
Mirea O.: P96
Mirea O.: P1288, P381, P97
Mirica D.C.: P74
Miski S.: P246
Misch M.: P190
Miskovic D.: P1275, P484, P485, P494, P495
Mistelina-Palolakova J.: P198
Mitai S.: P699
Mitev I.: P693
Mitropoulos F.: P662
Mizariene V.: P789, P2027, P487, P685
Mizia-Ste K.: K9, P120
Mleczko S.: K90
Mo Y.: 744
Mo Y.: P.468
Moccetti T.: P1248, P933
Moceri P.: P1123
Modas Daniel P.: P475, P1045, P1097, P272, P692
Moderato L.: P981
Modesti P.A.: P1269
Modok S.: P191
Mueller E.: P1080, P1236
Mohamed Ferieg H.: P1133
Mohamed L.: P263
Mohamed L.: P1300
Mohamed R.: P1300
Moharem-Ebrahim S.: P927
Mohr F.W.: 742
Mohy D.: P1083, P233, P573, P983, P984
Mokadem N.: P521
Molenar M.M.D.: P811
Molina Ferragut L.: P816
Molina L.: P377, P556, P852
Molina-Aguilar P.A.: P1001
Moliner P.: P181
Molno G.: P527
Monaghan M.J.: P371, P640
Monakier D.: P545
Monaldo S.: P1032, P680, P686
Monody P.: P686
Montaron M.: P980
Monroy P.: P426, P224, P817
Monserratt Reina A.M.R.: P1001
Monteiro J.J.: P1148
Monteagudo R.J.: P1224, P1226
Monteloletto P.: P1010
Monteleoni R.: P930
Montero Argudo A.: P476, P176
Montero-Argudo A.M.: P389
Monte-Gribau L.: P2327
Mont L.: P388
Montilla Padilla I.: P919
Montorlano M.: P47, P661
Montoro Lopez N.: P1013, P238
Montovi Re A.: P487
Moradi P.: P988
Morais E.: P272
Moranii M.: P354
Mor-Avi V.: P185
Morbach C.: P522
Mordi L.: P1142
Moreira N.: P1127
Morel O.: P1925, P969
Moreno Gomez R.: P646
Moreno J.: P1120, P531
Moreno Planas J.: P1126
Moreno Yanguela M.: P1013, P1044, P238, P646
Moreno A.: P1245, P562, P574, P657, P957, P990
Moragen H.P.: P1099
Mor F.: P210
Morillas Climent H.: P476
Morillas Climent H.M.: P389
Mornos M.: P308
Mornos C.: P308
Morreale P.L.: P244
Morlart P.: P429
Moscatelli S.: P388
Mosfarah S.H.: P263
Mortejimatin J.: P194
Moughil S.: P983, P984
Moura B.: P560
Moura Branco L.: P1097, P1098, P1247, P218, P684, P692, P924, P93, P991
Moura Ferreira J.: P1127, P203
Mousseaux E.: P303
Moustafah T.M.E.R.: P1087, P1087, P186, P379
Moya J.L.: P1068, P1092, P1238, P387
Moya Mur J.: P1135, P223, P223
Moya Mur J.: P314, P2126, P1290, P196
Moz M.: P1110
Mozezna O.: P1112
Mopaltounas K.: P1255
Mrakic-Sposta S.: P260
Mrdovic L.: L70, P1079, P972
Mroueh A.: P1129, P129
Mroueh A.: P216, P95
Mroueh A.: P236
Mroueh A.: P263
Mroueh A.: P95
Mroueh A.: P245, P657, P936
Muscarella B.: P670
Muciarone P.: P388
Mueller H.: P1084, P1224, P817
Muminah N.: P1031, P1279
Mulville N.: P630, P961
Murakami Y.: P266
Muraru D.: P1070, P167, P170, P842, P489, P900, P62, P701, P819, P926
Murat G.: P1136
Muratori P.: P1243, P211, P554, P594
Murphy R.: P92
Murphy R.: P604
Mursa A.: P760
Mursa A.: P670
Murselli R.: P2222
Musca F.: P1245, P574, P657
Musetti G.: P646
Musshannon B.: P248
Mushtaq S.: P372, P554, P812
Musilek P.: P190
Musirin C.: P219, P220
Mustafa A.: P807
Musumeci F.: P659

Muthusamy P.M.: P383
Myersson S.: P1254
Mysia K.: 369, P1002, P242
Mzouhi K.: P1108

N
Nagamine K.: P626
Nagatom V.: P1090
Naguel S.: P598
Nagy A.I.: 792, P572
Nagy A.I.: P528
Nagy M.: P932
Naden V.: P1311
Naim M.: P1196
Najme Khr V.: P540
Nakao K.: P1026
Nakao T.: P815
Nakao T.: P239
Nam J.H.: P1017
Nambiar V.: P248
Nana M.: P1099
Nanto K.: P161
Nao T.: P1018
Napol V.: P187
Napol V.: P1269
Napolitano G.: P483
Nard B.: P388
Nardo A.: 423
Nascimento H.: P552
Nascimento J.: P643
Natif P.: P216, P95
Natali B.M.: P680
Nathan P.C.: P699
Navea C.: P377, P582
Nawrotek B.: P653
Nazar S.: P1282, P1283
Neagu M.S.: P634
Nedelkovic I.: P1223, P1130, P641, P931
Needham L.: P1269, P757
Nefgi F.: P787
Nemes A.: P1042, P1035, P91, P269, P271, P606
Nepper M.L.: P264, P588
Nesheva E.: P1223
Nestasa E.: P1292, P99
Nethondona R.: P925
Neus M.: P1253
Nevos D.: P225
Nevos Pestana G.: P1111
Ngiam N.: P236
Nguyen T.: P703
Nguyen V.: P647
Nickeg G.: P1029, P191, P214
Nicottera A.: P973
Nielsen K.M.: P1916
Nieto Tolosa J.: P644
Nihoyayannopoulos P.: P1035, P1126, P247, P710
Nik K.: P633
Nikitijuk C.V.: P177
Nikus K.: P601
Nishigami K.: P1026
Nishikawa H.: 302, 422, P192, P197, P632,
Q

Qawco H.D.: P194, P195
Quattrucci S.: P567, P590
Quattrone A.: P375
Quesada Carmona A.: P176
Quintal N.: P930
Quershi W.: P810

R

Raanani E.: P1103
Rakienken P.: F601
Rachova A.: P1273
Raclit M.: P187
Raczak G.: P702
Ragendor G.: P1115
Rakdova M.: P922
Raffoul R.: P216
Raja D.: P706
Rakociac L.: P1203, P130, P641, P931
Rama-Merhan J.C.: P500
Ramberg E.: P264, P588
Ramos R.: P1045, P260, P614, P809, P977
Rao-Moldovan A.L.: P568
Rakosi M.: P581
Rafael N.: P922
Ramos V.: P216
Real M.: 311
Reese K.: P180
Refylo Salico E.: P1013, P1044, P238
Refa F.: P312, P388
Regis-Zagrosek V.: P498
Reis C.: P493
Reis L.: P110, P643, P974
Rlewicz J.: P242
Remme E.W.: P1074, P1195
Remor J.: P146
Reskoic V.: P198
Rivest P.: P224, P217
Ricke Z.: P1117
Rhodes K.: P964
Ribao E.B.: P249
Rial Baston V.: P1013
Ribeiro M.: P563
Ribeiro J.: P116, P551, P643, P967
Ribeiro J.M.: P694
Ribeiro N.: P203
Ribeiro V.: P111, P182, P552
Ribes D.: 313
Riccard C.: P119
Ricc F.: P91, P94
Ricc D.: P106
Richter U.: P188

Ridocci-Soriano F.: P710
Riesenkaempff E.: P376
Riesenkaempff E.R.: P383
Riace O.: P532
Rignhi FM.: P1032
Rigo F.: P998
Rihal C.S.: P660
Rijal S.: P1081
Rimbis R.C.: P1034, P1036
Rinaldi L.: P990
Rincon Diaz L.M.: P196
Ring L.: P209, P628
Ring M.: P1240, P651
Rio P.: P924
Ripoli A.: P199
Rivetti L.: 748
Roberto Badagliacca R.B.: P678
Robin G.: 313
Rocha R.: P698
Rodis L.: P970
Rodosic M.S.: P1148
Rodrigo J.L.: P1250
Rodriguez A.: P551
Rodriguez L.: P1097, P1098, P93, P991
Rodriguez J.: P560
Rodriguez Collado J.: P215
Rodriguez Munoz D.: 314, 421, P1226
Rodriguez-Palomares J.: P382, P384, P90
Rodrigues J.: P181
Rohm R.: P166
Rosek A.: 369, P242
Rolland J.: P588
Romano C.: P1148
Romano G.: P1101, P1139
Romano C.: P1148
Romano G.: P1101, P1139
Romero G.: P167, P482, P489, P490, P926
Romero Moreno M.: P664
Ronderos R.: P592
Ronderos R.R.: P255
Romeo G.: P167, P482, P489, P490, P926
Romero Moreno M.: P664
Ronderos R.R.: P255
Ronvalle C.: P557
Rooses B.: 746
Roos-Hesselink J.W.: P189
Roper D.: 371, P640
Rosa I.: 747, 749, P1246, P661, P980
Roser A.: P374
Rous A.: P535
Rossini M.: P1011
Rossi A.: P535
Rosini A.: P1101
Rosino A.: P1249
Rivetta F.: 748
Rivas W.: P198
Rizzi F.: P91, P94
Ricca M.: P643
Ricci R.: P106
Richter U.: P188

Rivo: C.: P1110
Ruiz Fernandez D.: P204
Ruiz Herrera S.: P223, P223
Ruiz M.: P169
Ruiz Ortiz M.: P550, P664
Ruiz S.: P1068, P1238, P387
Ruiz-Munoz A.: P90
Rumbaitas E.: P98
Runev N.: P183
Rusina V.A.: P1071
Russo A.: P1277
Russo C.: P1245, P657
Russo G.: P787, P981
Russo R.: P244
Russo V.: P629
Rusu E.: P670
Rutz T.: 416
Rzeszutko L.: P653

S

Saaedora J.: P377, P582
Saberian J.: P229
Saby SH.A.M.A.: P263
Saccone M.: P1229
Sacharzuk W.: P1002
Sadie L.: P667, P936
Sadiq M.A.: P992
Sagie A.: P543
Sahara E.: P1105
Sahinaris A.: P703
Saidova M.A.: P1134, P930
Saito M.: P1109
Sakamoto T.: P1026
Sal C.: P265
Salem M.A.: P806
Saliba E.: P1072
Salido L.: P1238, P223
Salido Tahoes L.: P591
Salm F.S.: P524
Salinas M.: P960
Saltin-Martinsoric A.: P1103
Salmin K.: P638
Saloux E.: P306
Salvini L.: P962
Samaan A.: P932
Samaridis G.: P1077
Samaras A.: P1016
Sambugaro F.: P482
Sanet H.: P1295
Sametoglu F.: P1276, P243
Sanz M.: P1104, P145
Sanz M.: P1102
Sanchez P.L.: P500, P937
Sanchez J.: P169
Sanchez Fernandez J.: P550
Sanchez Fernandez PL.: P215
Sanchez J.: P169
Sanchez PL.: P500, P937
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