EACVI Activity Report 2020

01 April 2020 - 31 March 2021

www.escardio.org/EACVI
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Who we are

The world's leading network of cardiovascular imaging professionals

The EACVI is a not-for-profit organisation. Everything we do is to support our 14,000 members and all healthcare professionals from cardiovascular imaging worldwide so they can deliver the best possible evidence-based care to patients.

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

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

**EACVI is a branch of the European Society of Cardiology**
Dear members, dear friends,

"Non est ad astra mollis e terris via". "There is no easy way from the earth to the stars".

Last year ended with the fantastic and very successful Best of Imaging 2020, our virtual congress which reached more than 11,000 attendees from all over the world. In the first half of 2021, the online versions of ICNC-CT and EuroCMR were also held with great success. These clearly reflected that both the EACVI and the CVI communities continue to support, with enthusiasm, all our activities.

Although the distance to the stars seemed greater due to the reality of the pandemic - which continues to influence the work of the EACVI and the ESC - we have learned a lot from the opportunities made possible by the online offer. Nevertheless, we are all missing the in-person congresses, live courses and face-to-face meetings, and are looking forward to a normal and safe world again.

We will do our best to keep providing excellent science and education in the year to come, adapting as the pandemic evolves and providing an even broader offer. I would like to thank you all for contributing to our association and ensuring that 2020 was successful for the EACVI. The support of the industry during this difficult period was also crucial.

Despite the absence of an onsite congress in 2020, the number of EACVI Members remained constant. Your fidelity, your trust - we will continue to work to deserve them.

The EACVI is more dynamic than ever; many new activities have been and will be launched. The certification exams are now fully available online. The young community is extremely dedicated and enthusiastic and is preparing for the future of the EACVI with great professionalism.

Cardiac imaging is pivotal to almost every case in daily clinical cardiology practice. It is one of the most transversal specialities in cardiology and it covers almost all other subspecialities.

We are working to improve patient awareness regarding CV imaging and developing online education modules for non-cardiologists. We also plan to organise teaching courses in Europe as well as mini symposia dedicated to specific diseases and cutting-edge aspects of CV imaging modalities. We are proud to say that the Impact Factor of our journal, the *European Heart Journal - Cardiovascular Imaging*, is also growing again.

And let’s not forget, the EACVI Fellowship (FEACVI) programme which launched in 2019 has been a great success. Join us!

In December 2021 we will have the first online and onsite congress of the ESC family, which will be held in Berlin. Try to meet us in Berlin if you can - we will make this event a celebration - but the online offer will be available if you can’t make it. The Scientific Programme Committee is motivated to propose a fantastic programme and we hope to have record attendance this year.

Thanks again for your unwavering commitment and involvement in our projects. We rely on you.

Prof. Bernard Cosyns
EACVI President 2020-2022
Activity Snapshot
2020

- 90 accredited labs
- 81 didactic tutorials
- 9 certification exams on 7 topics
- 15 live webinars
- €180,000 distributed in Research and Training Grants
- 4 EACVI Training Grants
- 4 EACVI Research Grants
- EuroCMR 2021 (1,244 delegates)
- ICNC-CT 2021 (516 delegates)
- Best of Imaging 2020 (1,120 delegates)
- EHJ-CI: Impact Factor 2019 4.841
- 5 books
- 5 surveys conducted
- 13 papers published
- 385 Board & Committees Members
- 78 National Societies and WG
- +10,000 members
- +5,000 young members
- 70 HIT ambassadors
- 124 FEACVI
- +300 expert volunteers
- 49 Affiliated Societies worldwide
- EuroCMR 2021
- ICNC-CT 2021
- Best of Imaging 2020
- EHJ-CI: Impact Factor 2019
- 5 books
- 5 surveys conducted
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- 385 Board & Committees Members
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- +10,000 members
- +5,000 young members
- 70 HIT ambassadors
- 124 FEACVI
- +300 expert volunteers
- 49 Affiliated Societies worldwide
EACVI Board 2020-2022

Executive Board

President
Prof. Bernard Cosyns (Belgium)

President-Elect
Prof. Steffen Petersen (UK)

Past-President
Prof. Thor Edvardsen (Norway)

Secretary
Dr. Matteo Cameli (Italy)

Treasurer
Dr. Alessia Gimelli (Italy)

Vice-President / CMR Section Chair
Prof. Bernhard Gerber (Belgium)

Vice-President / Echo Section Chair
Prof. Leyla Elif Sade (Turkey)

Vice-President / Nuclear C & CCT Section Chair
Assoc. Prof. Pal Maurovich-Horvat (Hungary)

Editor-in-Chief of European Heart Journal - Cardiovascular Imaging
Prof. Gerald Maurer (Austria)

Board members

Councillors - Echo
Dr. Nina Ajmone Marsan (Netherlands)
Prof. Ricardo Fontes Carvalho (Portugal)

Councillors - CMR
Prof. Ana Almeida (Portugal)
Dr. Martina Perazzolo Marra (Italy)

Councillors - Nuclear C & CCT
Dr. Mark Dweck (UK)
Prof. Constantinos Anagnostopoulos (Greece)

Vice Presidents-Elect
Dr. Denisa Muraru (Italy) Vice President-Elect / Echo Section
Prof. Robin Nijveldt (Netherlands) Vice President-Elect / CMR Section
Dr. Gianluca Pontone (Italy) Vice President-Elect / Nuc C & CCT Section

Ex officio
Prof. Erwan Donal (France)
Dr. Blazej Michalski (Poland)
Mrs. Isabel Bardinet (France) ESC Chief Executive Officer

Dr. Mark Westwood (UK)
EACVI Committees 2020-2022

- Education
- Certification & Accreditation
- Research & Innovation
- Scientific Initiatives
- Scientific Documents
- Industry Round Table
- Web & Communication
- International Communities & Membership
- Heart Imagers of Tomorrow (HIT)
- EuroEcho 2021 Scientific Programme
- EuroCMR 2021 Scientific Programme
- ICNC 2021 Organising and Scientific Programme
- EACVI 2022 Scientific Programme

Education

Education Chairperson
Dr. Nina Ajmone Marsan

Education Deputy Chairperson
Prof. Robin Nijveldt

Certification & Accreditation Chairperson
Dr. Mark Westwood

Certification & Accreditation Deputy Chairperson
Dr. Luna Gargani

Certification & Accreditation Deputy Chairperson
Dr. John-Paul Carpenter

Membership

International Communities & Membership Chairperson
Prof. Thor Edvardsen

International Communities & Membership Deputy Chairperson
Prof. Bernhard Gerber

Heart Imagers of Tomorrow (HIT) Chairperson
Dr. Blazej Michalski

Heart Imagers of Tomorrow (HIT) Deputy Chairperson
Dr. Hatem Soliman
EACVI Committees 2020-2022

Advocacy

**Industry Round Table**
- Chairperson: Dr. Alessia Gimelli
- Deputy Chairperson: Dr. Kyriakos Yiangou

**Web & Communication**
- Chairperson: Prof. Ricardo Fontes Carvalho
- Deputy Chairperson: Dr. Sarah Moharem

Research

**Research & Innovation**
- Chairperson: Dr. Denisa Muraru
- Deputy Chairperson: Dr. Gianluca Pontone

**Scientific Initiatives**
- Chairperson: Dr. Marc Dweck

**Scientific Documents**
- Chairperson: Prof. Erwan Donal

**Research Registries**
- Chairperson: Dr. Ruxandra Jurcut
EACVI Committees 2020-2022

Congress

● EuroEcho 2021 Scientific Programme Committee
  - EuroEcho 2021 Scientific Programme Chairperson
    Prof. Leyla Elif Sade
  - EuroEcho 2021 Scientific Programme Assistant Chairperson
    Assist. Prof. Denisa Muraru
  - EuroEcho 2021 Abstract Chair
    Dr. Ciro Santoro

● EuroCMR 2021 Scientific Programme Committee
  - EuroCMR 2021 Scientific Programme Chair
    Dr. Robert Manka
  - EuroCMR 2021 Abstract Chair
    Dr. Sarah Moharem-Elgamal

● ICNC 2021 Organising and Scientific Programme Committee
  - ICNC 2021 Organising Committee ASNC
    Dr. Prem Somam
  - ICNC 2021 Scientific Programme Committee EACVI
    Dr. Alessia Gimelli
  - ICNC 2021 Scientific Programme Committee EANM
    Dr. Hein J. Verberne

● EACVI 2022 Scientific Programme Committee
  - EACVI 2022 Scientific Programme Chairperson
    Prof. Steffen E. Petersen
  - EACVI 2022 Scientific Programme Co-chairperson Echo
    Dr. Denisa Muraru
  - EACVI 2022 Scientific Committee Advisor
    Prof. Bernard Cosyns
  - EACVI 2022 Scientific Committee Advisor
    Assoc. Prof. Pal Maurovich-Horvat
  - EACVI 2022 Scientific Programme Co-chairperson CMR
    Prof. Robin Nijveldt
  - EACVI 2022 Scientific Programme Co-chairperson Nuc. & CCT
    Dr. Gianluca Pontone
  - EACVI 2022 Scientific Committee Advisor
    Prof. Bernhard Gerber
  - EACVI 2022 Scientific Committee Advisor
    Prof. Leyla Elif Sade
Education

Education Committee
Interactive online modules, postgraduate certification, grants and courses: the EACVI has an educational programme to suit all healthcare professionals. Discover here.

Teaching Courses
The EACVI aims to share cardiovascular imaging education worldwide by organising joint teaching courses with National Working Groups on all multimodality imaging techniques. The association also offers tailored workshops for the young community and preparatory courses for certification.

All in-person courses had to be cancelled in FY20:
Below is a list of EACVI recurrent courses, that will resume as soon as the sanitary context allows.

<table>
<thead>
<tr>
<th>Recurrent courses</th>
<th>When</th>
<th>Where</th>
</tr>
</thead>
<tbody>
<tr>
<td>EACVI Preparatory Course for Certification in CMR</td>
<td>TBD (usually Spring)</td>
<td>European Heart House, Sophia-Antipolis France</td>
</tr>
<tr>
<td>EACVI Teaching Course on CMR in Congenital and Paediatric Heart Disease</td>
<td>TBD (usually Spring)</td>
<td>London, UK</td>
</tr>
<tr>
<td>EACVI/EANM ESMIT Autumn School</td>
<td>TBD (Autumn)</td>
<td>TBD</td>
</tr>
<tr>
<td>EACVI Teaching Course on Transoesophageal 2D and 3D Echocardiography</td>
<td>TBD (usually Autumn)</td>
<td>TBD</td>
</tr>
<tr>
<td>EACVI Course on Cardiology Computed Tomography</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>EACVI HIT Course in collaboration with national WG</td>
<td>TBD</td>
<td>TBD</td>
</tr>
</tbody>
</table>
Education

Webinars
Every year EACVI offers a series of interactive one-hour webinars presented and moderated by EACVI representatives, top level experts in the CVI field. EACVI webinars are designed to provide attendees with practical training via relevant clinical cases and live assessment (MCQs).

All our live webinars are reviewed by the European Accreditation Council for Continuing Medical Education (EACCME®) for CME accreditation. Access the programme at: [www.escardio.org/EACVI-webinars](http://www.escardio.org/EACVI-webinars)

Missed the live programme? You can catch up or watch again through the webinars on demand page. [www.escardio.org/EACVI-webinars#recordings](http://www.escardio.org/EACVI-webinars#recordings)

Access is restricted to EACVI Silver Members and FEACVI.

Visit the [EACVI YouTube playlist](https://www.youtube.com/EACVIYouTube) to enjoy a selection of our webinars for free.

<table>
<thead>
<tr>
<th>Date</th>
<th>Registration</th>
<th>Attendance</th>
<th>Webinar name</th>
</tr>
</thead>
<tbody>
<tr>
<td>09/04/2020</td>
<td>2,332</td>
<td>1,200</td>
<td>EACVI Webinar on COVID-19</td>
</tr>
<tr>
<td>14/04/2020</td>
<td>2,551</td>
<td>1,400</td>
<td>COVID-19: how to use and interpret lung ultrasound?</td>
</tr>
<tr>
<td>30/04/2020</td>
<td>1,050</td>
<td>278</td>
<td>How molecular imaging can help cardiologists with difficult cases</td>
</tr>
<tr>
<td>14/05/2020</td>
<td>720</td>
<td>368</td>
<td>LVNC: the boundary of Cardiovascular Imaging</td>
</tr>
<tr>
<td>09/06/2020</td>
<td>608</td>
<td>306</td>
<td>Multimodality amyloidosis imaging</td>
</tr>
<tr>
<td>06/07/2020</td>
<td>566</td>
<td>312</td>
<td>Myocardial work by pressure strain loops</td>
</tr>
<tr>
<td>17/09/2020</td>
<td>652</td>
<td>296</td>
<td>How to diagnose arrhythmogenic right ventricular cardiomyopathy using multimodality imaging?</td>
</tr>
<tr>
<td>29/09/2020</td>
<td>1,447</td>
<td>681</td>
<td>Absolute quantification of myocardial perfusion</td>
</tr>
<tr>
<td>07/10/2020</td>
<td>978</td>
<td>476</td>
<td>Role of contrast echocardiography in hospitalised patients with Covid-19</td>
</tr>
<tr>
<td>20/10/2020</td>
<td>459</td>
<td>265</td>
<td>4D flow quantification by CMR</td>
</tr>
<tr>
<td>12/11/2020</td>
<td>897</td>
<td>486</td>
<td>EACVI-ACVC Webinar: Echocardiography in the intensive care unit</td>
</tr>
<tr>
<td>04/12/2020</td>
<td>723</td>
<td>343</td>
<td>Update on secondary mitral regurgitation</td>
</tr>
<tr>
<td>15/01/2021</td>
<td>550</td>
<td>282</td>
<td>Echocardiography in Ventricular Assist Devices</td>
</tr>
<tr>
<td>03/02/2021</td>
<td>682</td>
<td>358</td>
<td>How to use imaging to assess multivalvular disease</td>
</tr>
<tr>
<td>10/03/2021</td>
<td>932</td>
<td>475</td>
<td>Digital health in CVI: challenges and future perspectives</td>
</tr>
<tr>
<td></td>
<td>15,147</td>
<td>7,526</td>
<td></td>
</tr>
</tbody>
</table>
Education

**EACVI e-learning programmes**

The EACVI e-learning programmes are based on the EACVI core syllabus of each imaging modality. They provide the knowledge imaging specialists need to be at the cutting edge of each field with didactic tutorials created by leading experts. These tutorials are a unique means to learn about indications for each technique, receive practical guidance on how to perform, analyse and prepare for the EACVI CVI certification examinations. The aim of the course is for cardiologists to continue their education and readily access one module or the full programme. The courses will additionally provide preparation for the EACVI certification process, which is a certification of excellence.

All EACVI tutorials are accredited for 1 CME Credit by the European Accreditation Council for Continuing Medical Education (EACCME®).

Review the programmes and purchase access at [www.escardio.org/eacvi-e-learning](http://www.escardio.org/eacvi-e-learning)

Five EACVI e-learning programmes are currently available:

- **Echocardiography** (TTE: 31 tutorials, TOE: 16 tutorials, Focus Cardiac Ultrasound: 9 tutorials)
- **Cardiovascular Magnetic Resonance**: 10 tutorials
- **Nuclear Cardiology**: 5 tutorials
- **Cardiac Computed Tomography**: 5 tutorials
- **Multimodality Imaging in Congenital Heart Disease**: 9 tutorials

Next set of tutorials will be **3D Echocardiography**.

*Filming was planned for 2021, to be rescheduled.*

**EACVI tutorials - No. of purchases FY21**

<table>
<thead>
<tr>
<th>e-learning topic (Launched in)</th>
<th>No. of purchases FY21</th>
<th>Total No. of purchases since launch in 2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>EACVI CHD (2018)</td>
<td>105</td>
<td>244</td>
</tr>
<tr>
<td>EACVI CMR (2016)</td>
<td>401</td>
<td>1,756</td>
</tr>
<tr>
<td>EACVI FoCUS (2019)</td>
<td>98</td>
<td>155</td>
</tr>
<tr>
<td>EACVI NC-CT (2017)</td>
<td>259</td>
<td>713</td>
</tr>
<tr>
<td>EACVI TOE (2016)</td>
<td>348</td>
<td>1,167</td>
</tr>
<tr>
<td>EACVI TTE (2015)</td>
<td>628</td>
<td>2,368</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1,839</strong></td>
<td><strong>6,403</strong></td>
</tr>
</tbody>
</table>
EACVI Imaging toolboxes
EACVI offers 5 toolboxes to help professionals better manage their patients.

Valvular Imaging Box
A science hub where all relevant information related to evaluation of valvular diseases can be easily found.

Contrast Echocardiography Box
Provides cardiologists, interns and sonographers with a comprehensive understanding of the techniques, usage and safety aspects of contrast echocardiography.

3D Echo Box
Designed to help echocardiographers, cardiac surgeons and clinical cardiologists, to interpret 3-dimensional echocardiography (3DE) images and derive information useful in managing their patients.

Multimodality Imaging Toolkit on Aortic Stenosis
Everything you want to know about imaging aortic stenosis in one unique setting, prepared by the leading specialists. (Access is free for everyone).

Imaging Toolbox on CRT
The CRT Imaging Toolbox provides a complete educational product for day to day practice that meets professionals’ needs and contains everything you want and need to know about Imaging in Cardiac resynchronization therapy (CRT).

Toolbox on Cardiomyopathies and athlete’s heart
Discover state-of-the-art practical presentations on imaging modalities and how to implement them in the workup of suspected cardiomyopathies or structural changes related to exercise in athletes.

www.escardio.org/Imaging-boxes

Access
Access to the EACVI Imaging toolboxes is restricted to EACVI Silver Members and FEACVI, except specified otherwise.
Education

Certification & Accreditation Committee
Full details available at www.escardio.org/EACVI-certification

Certification

Level 1 certification
During its congresses, the EACVI offers level 1 certification opportunities in Echo, CMR, Nuclear C and Cardiac CT.

Level 2/3 certification
- Launched in 2003 with TTE
- Theoretical exam + skills assessment
- Now 7 certification programmes are available:
  - TTE
  - TOE (with EACTA)
  - Echo-CHD (with AEPC)
  - CMR
  - CHR-CHD
  - Nuclear Cardiology (with EANM)
  - Cardiac CT
- 9 exams, +1,000 candidates per year

Laboratory accreditation
- Available for Echo in 3 modules (standard or advanced)
  - TTE
  - Stress Echo
  - TOE
- Available for CMR in 3 modules
  - CMR
  - CMR-CHD
  - Stress
EACVI Certification exams 2020-2021

DECEMBER 2020 (ONLINE)
- Cardiac CT exam
- CMR exam
- CMR CHD exam
- TOE exam
- TTE exam
- Echo CHD exam
- Nuclear exam

JUNE 2021 (ONLINE)
- Cardiac CT exam
- CMR exam
- CMR CHD exam
- TOE exam
- TTE exam

DECEMBER 2021 (ONLINE)
- TOE exam
- TTE exam
- Echo CHD exam
- Nuclear exam
Research & Innovation Committee
Registries Sub-Committee

A platform for research in cardiovascular imaging
EACVI aims at capitalising on its research network and supporting large scale quality and outcome studies in order to highlight the robustness of cardiovascular imaging techniques in clinical cardiology.

Registries
EACVI registries address relevant questions on the use of MMI in a condition and lead to comparisons with existing guidelines, draw conclusions on gaps and disparities across Europe, give an overview of relevant findings.

Ongoing projects

<table>
<thead>
<tr>
<th>Project</th>
<th>Description</th>
<th>Leading Person</th>
</tr>
</thead>
<tbody>
<tr>
<td>FUTURE</td>
<td>Evaluate the best parameters that are able to predict re-hospitalization for HF and cardiovascular death in patients admitted to the cardiology department for acute exacerbation of CHF or de novo AHF</td>
<td>Matteo Cameli</td>
</tr>
<tr>
<td>TERRA</td>
<td>The primary aim of the study is to compare the test-retest reproducibility of advanced echocardiographic parameters of RV, RA and TA size and RV function against the respective parameters obtained by conventional echocardiography and by CMR.</td>
<td>Denisa Muraru</td>
</tr>
<tr>
<td>CARDITOX II study</td>
<td>Cardiac CT quantitative tissue characterisation for detection of Anthracycline induced cardiotoxicity</td>
<td>Gianluca Pontone</td>
</tr>
<tr>
<td>Afib Echo registry</td>
<td>Echo-derived parameters predicting TE in AF patients</td>
<td>Ciro Santoro</td>
</tr>
</tbody>
</table>
Scientific Documents Committee

The EACVI Scientific Documents Committee publishes up to 10 documents per year in renowned official journals. Read more about Recommendations and Position Papers.

List of scientific documents published between 01 April 2020 and 31 March 2021

<table>
<thead>
<tr>
<th>Title</th>
<th>Chair</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>COVID-19 pandemic and cardiac imaging: EACVI recommendations on precautions, indications, prioritization, and protection for patients and healthcare personnel</td>
<td>Thor Edvardsen</td>
<td>Apr-20</td>
</tr>
<tr>
<td>The role of cardiovascular imaging for myocardial injury in hospitalized COVID-19 patients</td>
<td>Bernard Cosyns</td>
<td>May-20</td>
</tr>
<tr>
<td>Global evaluation of echocardiography in patients with COVID-19</td>
<td>Marc Dweck</td>
<td>Jun-20</td>
</tr>
<tr>
<td>Multimodality imaging in takotsubo syndrome: a joint consensus document of the European Association of Cardiovascular Imaging (EACVI) and the Japanese Society of Echocardiography (JSE)</td>
<td>Rodofo Citro</td>
<td>Aug-20</td>
</tr>
<tr>
<td>Contemporary rationale for non-invasive imaging of adverse coronary plaque features to identify the vulnerable patient: a Position Paper from the European Society of Cardiology Working Group on Atherosclerosis and Vascular Biology and the EACVI</td>
<td>Marc Dweck, Pal Maurovich-Horvat</td>
<td>Sep-20</td>
</tr>
<tr>
<td>The year 2019 in the European Heart Journal–Cardiovascular Imaging: Part I</td>
<td>Thor Edvardsen</td>
<td>Sep-20</td>
</tr>
<tr>
<td>The year 2019 in the European Heart Journal – Cardiovascular Imaging: part II</td>
<td>Bernard Cosyns</td>
<td>Nov-20</td>
</tr>
<tr>
<td>Procedural recommendations of cardiac PET/CT imaging: standardization in inflammatory, infective, infiltrative and innervation (4Is) related cardiovascular diseases. A joint collaboration of the EACVI and the EANM.</td>
<td>Slart Riemer</td>
<td>Nov-20</td>
</tr>
<tr>
<td>Training, competence, and quality improvement in echocardiography</td>
<td>Bogdan A. Popescu, Alexandros Stefanidis</td>
<td>Dec-20</td>
</tr>
<tr>
<td>Imaging the adult with simple shunt lesions: position paper from the EACVI and the ESC WG on ACHD</td>
<td>Werner Budts</td>
<td>Dec-20</td>
</tr>
<tr>
<td>The role of innervation imaging in different clinical scenarios: an Expert Consensus Document of the European Association of Cardiovascular Imaging and Cardiovascular Committee of the European Association of Nuclear Medicine</td>
<td>Alessia Gimelli</td>
<td>Feb-21</td>
</tr>
<tr>
<td>The Structural Heart Disease Interventional Imager: rationale, skills and training. A position paper of the European Association of Cardiovascular Imaging</td>
<td>Eustachio Agricola</td>
<td>Feb-21</td>
</tr>
<tr>
<td>EACVI recommendations on cardiovascular imaging for the detection of embolic sources. Endorsed by the Canadian Society of Echocardiography</td>
<td>Ariel Cohen, Erwan Donal</td>
<td>Mar-21</td>
</tr>
</tbody>
</table>

Scientific Initiatives Committee

The goal of the EACVI Scientific Initiatives Committee is to have a global view of what is going on among European countries with regard to guideline implementation, management of patients needing imaging, and the use of imaging in daily clinical practice. This is done mainly through short EACVI Research Network Centres’ surveys, snapshot registries or patient surveys.

5 surveys conducted and 5 papers published:

- EACVI survey on the evaluation of infective endocarditis (May 2020))
- EACVI survey on cardiac imaging in cardio-oncology (May 2020)
- Global evaluation of echocardiography in patients with COVID-19 (June 2020)
- EACVI survey on investigations and imaging modalities in chronic coronary syndromes (November 2020)
- EACVI survey on the management of patients with patent foramen ovale and cryptogenic stroke (December 2020)

Visit our webpage for more details or to join the EACVI Scientific Initiatives Centres Network.
Research

Publications

The European Heart Journal - Cardiovascular Imaging (EHJ-CI) is an international, peer reviewed journal. It covers echocardiography, cardiovascular magnetic resonance, computed tomography, nuclear cardiology and invasive imaging. The journal aims to publish the highest quality material, both scientific and clinical, from all areas of cardiovascular imaging. Issues per subscription: 12. 2018 Impact Factor: 5.260

The EACVI Textbook of Cardiovascular Magnetic Resonance
First edition
Ideal for cardiologists and radiologists new to the field of Cardiovascular Magnetic Resonance, those preparing for ESC certification and those established in the field wishing to gain a deeper understanding of CMR. Takes a practical, disease-oriented approach with treatment of congenital heart disease and GUCH throughout.

The ESC Textbook of Cardiovascular Imaging
Second Edition
This textbook is a comprehensive guide to cardiovascular imaging across a large number of conditions, written and edited by experts with years of experience and unrivalled knowledge in their respective fields. New and improved images complement the guidance and advice provided.

The EACVI Echo Handbook
Concise, fact-based and packed with images and illustrations, the EACVI Echo Handbook is designed and written by leading experts in the field of echocardiography for use in the clinical arena. Importantly, the book is closely linked to EACVI recommendations and its Core Curriculum.

The EACVI Textbook of Echocardiography
Second Edition
Evidence-based and corresponding with the latest EACVI recommendations. Emphasis on providing sound management and treatment guidance.
• Fully illustrated with 500 colour images
• Includes access to the version included in Oxford Medicine
• Online, 200 videos and a DVD
• Supported by online content on the ESC learning platform with CME questions for self-assessment.

2020 EACVI Compendium
Recommendations and expert consensus statements by specialists from all cardiovascular imaging modalities, to guide cardiovascular imaging practices and provide the best healthcare experience. The EACVI Compendium will give you access to reference documents on diverse topics in all cardiovascular imaging techniques.

A new handbook on cardiac computed tomography and another one on nuclear cardiology are currently being drafted.
Best of Imaging 2020 - Quick facts & figures

11,120 total participants
  • 4,679 Active delegates (attended live)
  • 16 Exhibitors

143 countries represented
127 faculty members for 174 roles in the programme

48 Scientific programme sessions
  • 25 scientific and educational sessions
  • 17 Abstract-based Sessions

1,206 Abstracts & cases submitted
  • 865 abstracts and 341 clinical cases submitted
  • 472 abstracts and 50 clinical cases accepted

6 Industry sponsored sessions
  • 6 Satellite Symposia

Exhibition
  • 16 exhibiting companies

CME credits
12 CME credits from UEMS

Congress Theme: Best of Imaging in 2020
Advanced sessions in Echo/CMR/Nuclear and CT
Multimodality Imaging (MMI) sessions
Best of Imaging 2020
Industry sessions

Event platform
  • New platform created for this event
  • 3 channels streamed
  • ePoster gallery on demand

Free of charge
**Membership**

**Fellow of the EACVI (FEACVI)**
*a symbol of excellence in cardiovascular imaging*
Annual call for applications 15 June – 15 October

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**SILVER**

€78/156 (VAT included)

- **JOIN OR RENEW**
  - Discount on EACVI congresses
  - Unlimited access to EACVI congress resources on ESC 365
  - Voting rights
  - Online access to EHJ-CI
  - Discount on certification exams
  - Discount on the EACVI educational offer and products
  - Access to the Members Lounge at EACVI congresses
  - Discount on the online and print versions of the *European Heart Journal – Cardiovascular Imaging (EHJ-CI)*
  - Discount on EACVI and ESC textbooks and handbooks
  - EACVI newsletter

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**REGULAR**

FREE

- **JOIN OR RENEW**
  - Discount on the online and print versions of the *European Heart Journal – Cardiovascular Imaging (EHJ-CI)*
  - Discount on EACVI and ESC textbooks and handbooks
  - EACVI newsletter

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**EACVI Silver Membership** can be combined with **ESC Professional Membership** or another Subspecialty Association Silver Membership.

More information: [www.escardio.org/EACVI-membership](http://www.escardio.org/EACVI-membership)
Membership

Membership statistics 2021

FEACVI
124 elected fellows of the EACVI in 2021

9,499 members on 31 March 2021

Levels of membership

Origin of membership

Combined Memberships

<table>
<thead>
<tr>
<th>Combined Membership</th>
<th>No.</th>
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<tbody>
<tr>
<td>ESC Professional - EACVI Silver</td>
<td>985</td>
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<td>EACVI Silver - HFA Silver</td>
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<tr>
<td>EACVI Silver - EHRA Silver</td>
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<td>ACVC Silver - EACVI Silver</td>
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<td>EACVI Silver - EAPC Silver</td>
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<td>ACNAP Silver - EACVI Silver</td>
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<td><strong>Total</strong></td>
<td><strong>1,300</strong></td>
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Membership

Membership statistics 2021

All levels

Silver & FEACVI levels

Members Profile - Subscriptions

Members Profile - Gender

61% Male
39% Female

44% Male
56% Female

Members Profile - Stage in career

74%
23%
1% 2%

75%
23%
1% 1%

In training
Practicing
Retired
Student
Membership statistics 2021

Levels of membership

<table>
<thead>
<tr>
<th>Country</th>
<th>Memberships</th>
</tr>
</thead>
<tbody>
<tr>
<td>United Kingdom</td>
<td>1,014</td>
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<tr>
<td>Italy</td>
<td>832</td>
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<tr>
<td>Germany</td>
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<td>Netherlands (The)</td>
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<td>Romania</td>
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<td>Spain</td>
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<td>Egypt</td>
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<td>Poland</td>
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<td>India</td>
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<td>Portugal</td>
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<td>France</td>
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<tr>
<td>Russian Federation</td>
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<td>Australia</td>
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<td>Ukraine</td>
<td>149</td>
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<tr>
<td>Saudi Arabia</td>
<td>142</td>
</tr>
</tbody>
</table>

Top 20 countries

All levels

United Kingdom: 1,014
Italy: 832
Germany: 616
Netherlands (The): 365
Romania: 362
Spain: 339
Greece: 309
Egypt: 301
Poland: 277
India: 269
Portugal: 214
United States of America: 208
Switzerland: 183
Turkey: 182
Belgium: 174
France: 173
Russian Federation: 171
Australia: 151
Ukraine: 149
Saudi Arabia: 142

Silver & FEACVI levels

Top 20 countries

United Kingdom: 559
Italy: 477
Germany: 299
Netherlands (The): 284
Spain: 169
Romania: 138
Switzerland: 133
Greece: 131
Portugal: 122
Belgium: 121
United States of America: 87
Australia: 81
France: 76
Ireland: 75
Norway: 74
Austria: 68
Egypt: 66
Sweden: 63
Poland: 61
Saudi Arabia: 56
Membership

Membership statistics 2021

All levels

Silver & FEACVI levels

Members Profile - Main field of expertise

Members Profile - Main fields of interest
EACVI Imaging Grants

The European Association of Cardiovascular Imaging (EACVI) offers opportunities for young imagers to receive training or research experience abroad in non-invasive imaging modalities at a high standard academic centre, clinical centre or university.

Applications open on 31 March and close on 30 September of each year.

www.escardio.org/EACVI-education#grants

Training Grants

Financial support for three to six months is awarded by the EACVI to help candidates meeting the criteria to develop their skills in a renowned clinical centre or university within an ESC member country other than their own.

Research Grants

A one-year research grant of €25,000 (€30,000 in 2021) is awarded by the EACVI, to help candidates meeting the criteria to access research experience in a renowned academic centre of an ESC member country other than their own.

Grant winners testimonials

“It is a life-changing experience that has inspired me to start new projects. I couldn’t be happier to work with such an amazing group of people, and I will never forget this period in my life and career.”

“Educational grants offered by the EACVI are incredible and motivate young cardiologists to go further in their speciality.”
EACVI Imaging Grants winners 2021

### EACVI Research Grant

**Jessica Artico**  
**Programme:** Late heart and vasculature impacts of asymptomatic, mild and hospitalised COVID-19  
**Supervisor:** James Moon  
**Host institution:** Barts Heart Centre, Department of advanced cardiac imaging, St Bartholomew's Hospital and University College of London, UK

**Liliana Szabo**  
**Programme:** Association of environmental and lifestyle factors with conventional and radiomics cardiovascular magnetic resonance phenotypes  
**Supervisor:** Zahra Raisi-Estabragh  
**Host institution:** Queen Mary University of London, UK

**Anastasia Shchendrygina**  
**Programme:** Characterisation of myocardial injury in patients recently recovered from COVID-19 using multimodality imaging techniques and blood biosignatures  
**Supervisor:** Valentina Puntmann  
**Host institution:** Institute for Experimental and Translational Cardiovascular Imaging (Goethe CVI), Goethe University Hospital Frankfurt, Germany

**Karim Taha**  
**Programme:** Exercise to unravel myocardial stiffness changes as a potential cause of diastolic (dys)function: an ultra-high frame rate imaging study in HFpEF and athletes  
**Supervisor:** Guido Claessen  
**Host institution:** UZ Leuven, Belgium

### EACVI Training Grant

**Georgios Georgiopoulos**  
**Programme:** Multi-modality imaging in cardiac amyloidosis with a focus on nuclear techniques  
**Duration:** 6 months  
**Supervisor:** Dr. Michael Emdin  
**Host institution:** Fondazione Toscana Gabriele Monasterio (FTGM), Italy

**Laura Sahakyan**  
**Programme:** 3D and speckle tracking training programme  
**Duration:** 3 months  
**Supervisor:** Luigi Badano  
**Host institution:** Istituto Auxologico Italiano, IRCCS, Italy

**Carlo Mannina**  
**Programme:** Training fellowship in multimodality imaging and valvular heart disease  
**Duration:** 6 months  
**Supervisor:** Ronak Rajani  
**Host institution:** Guy and St Thomas NHS Foundation Trust, UK

**Domenico Filomena**  
**Programme:** Advanced training in CMR  
**Duration:** 3 months  
**Supervisor:** Jan Bogaert  
**Host institution:** UZ Leuven, Department of Radiology, Belgium

**Rinchyenkhand Myagmardorj**  
**Programme:** Multimodality imaging for assessment of coronary artery disease  
**Duration:** 6 months  
**Supervisor:** Victoria Delgado  
**Host institution:** Leiden University Medical Center (LUMC), Heart Lung Center, Department of Cardiology, The Netherlands
Advocacy

Task Forces

FOCUS echo
Chairs: Aleksandar Neskovic (Serbia) & Ivan Stankovic (Serbia)
The main objectives are to provide
- Core Syllabus
- Joint sessions and tracks at respective congresses
- Handbook
and ultimately certification.
Already available: FoCUS Core Curriculum and Core Syllabus, FoCUS tutorials

Interventions
Chairs: Eustachio Agricola (Italy) & Erwan Donal (France)
The main objectives are to provide
- Core Syllabus
- Education
- Handbook

Digital health
Chair: Bernard Cosyns (Belgium)
Role of the taskforce
- Establish a picture of the current situation in terms of digital health in imaging
- Define/anticipate the potential perspectives regarding digital health in imaging
- Evaluate the impact of digital health in imaging for the patient, the healthcare professionals, the industry, the healthcare system, and the governance

Value Based Healthcare
Chair: Steffen E. Petersen (United Kingdom)
Objectives:
- Assess current level of knowledge and application across Europe
- Identify and provide existing resources
- Fill the educational gaps

Women in cardiovascular imaging
Chairs: Julia Grapsa (United Kingdom) & Ana Almeida (Portugal)
Objectives:
- Enhance the careers of women imaging cardiologists by helping creating opportunities
- Attract women as fellows for CV Imaging by promoting effective career opportunities.
- Ensure the parity for women CV imagers, namely in leadership roles and equality compensation
- Promote and support scientific projects for studying women with CV diseases through imaging
- Promote workshops and education sessions with the topic of CV diseases imaging in Women

(Adult) Congenital Heart Disease
Chairs: Giovanni Di Salvo (Italy) & Jolien Roos-Hesselink (The Netherlands)
Objectives:
- Webinars, congenital track at congresses
- Scientific papers, registries
- Communication, interaction with other societies and industry

Regulatory Affairs
Chair: Piotr Szymanski (Poland)
Objectives:
- Current standards for assessing diagnostic performance of imaging systems
- Gaps in the evaluation of diagnostic performance of imaging systems
- Perspectives
Unless stated otherwise, all data mentioned in this report relate to Fiscal Year 2021, i.e. the period between 01 April 2020 and 31 March 2021.

Social media
Get new science and take part in the weekly ECG and clinical case challenges on ESC social media.

Follow the European Society of Cardiology on: