

EHRA

2023

ACTIVITY REPORT



President's Introduction

Dear Colleague,

It's with immense pride that I share EHRA's yearly activity report, representing the collective efforts and dedication of our Board and the invaluable contributions of our volunteers. 2023 was marked by an array of engaging and impactful initiatives.

The EHRA 2023 congress, held from 16 to 18 April in Barcelona, was a phenomenal success, drawing over 4,000 attendees on-site and an additional 1,000 online. We were also supported by more than 40 healthcare companies. A record-breaking number of scientific abstracts and late-breaking clinical trials were submitted, the latter of which included pivotal multicentre randomised trials that have since influenced clinical practice. Both the Simulation Village and hands-on anatomic sessions were in high demand, filling up well before the event, as was the pre-congress conduction system pacing summit, which sold out weeks in advance. A special congratulations to the EP tracing and ECG competition winners! The unveiling of the 'EHRA clinical consensus statement on conduction system pacing implantation' was a highlight of the congress, now serving as a cornerstone document. My heartfelt thanks go to the congress Chairpersons, Profs. Serge Boveda and Andrea Sarkozy, the Congress Scientific Programme Committee, and the organising team for their tireless work and innovative contributions, setting an exciting stage for the EHRA 2024 congress in Berlin.

The EHRA Summit in Madrid, held on 8 and 9 June, gathered 114 participants from 42 countries, including 13 industry representatives. This meeting served as a platform for dialogue on the new EU Medical Device Regulation (MDR), emphasising the necessity for our community to adapt to these regulatory changes, especially in light of potential product shortages. In addition, discussions around professional certification took place.

Under the leadership of Dr. Andreu Porta and Dr. Malcon Finlay, the renewal process for EHRA certification in EP and CIED was initiated and the third edition of the EHRA-LAHS certification exam saw record participation (over 40), highlighting the growing recognition and value of EHRA certification.

In 2023, a landmark achievement was the renaming of the PROFID trial to the PROFID-EHRA trial, assessing the impact of ICD implantation alongside optimised medical treatment on mortality in patients with severe ventricular dysfunction post-myocardial infarction. This, along with other projects like EHRA-PATHS and STEER-AF, are progressing well.

In the CIEDs arena, EHRA, in partnership with HRS, spearheads the World Forum on CIED follow-up, fostering a collaborative environment for stakeholders to enhance interoperability within existing data exchange standards.

2023 also marked the successful conduct of our traditional EHRA courses, setting the stage for the introduction of its new educational pathway in 2024. This will feature courses designed for fellows, experts, and leaders, each aimed at fostering expertise and leadership skills in the heart rhythm domain.

A noteworthy development was also the launch of the "Find my EP Specialist" tool on our patient websites, offering a directory of members willing to share their qualifications, expertise, and contact details, thus facilitating connections between patients, companies, and researchers with the experts they seek.

Lastly, our membership has reached a new record of over 4,500, a testimony to EHRA's growing influence and commitment to inclusivity, as reflected in our revised by laws granting voting rights to all members, regardless of their geographic location.

In closing, I extend my deepest gratitude to everyone who has contributed to our accomplishments this year. Your dedication and expertise continue to drive EHRA forward, making a significant impact on the cardiac EP field and patient care worldwide.

Prof. Jose Luis Merino

President



20th Anniversary

20 YEARS

In 2023, EHRA celebrated its 20th anniversary! 20 years ago, a vision was created and EHRA was born.

During the past year, we looked back on the extraordinary road we've travelled.

Our mission: "Improving the quality of life and reducing sudden cardiac death by limiting the impact of heart rhythm disturbances."

EHRA 20 Years in numbers

Congress

15 congresses
+5,000 participants

eCommunication

+500 'Keep the rhythm' monthly downloads
+44,000 Bulletin subscribers
+3,000 Newsletter subscribers

Education

Average of 400 Congress educational grants and 35 Webinars & courses delivered yearly

Certification

7 Certification programmes delivered yearly and a total of + 1800 fully certified specialists in EP, CP and AP

Community

+4,000 members
15 EHRA committees
176 FEHRA

Research

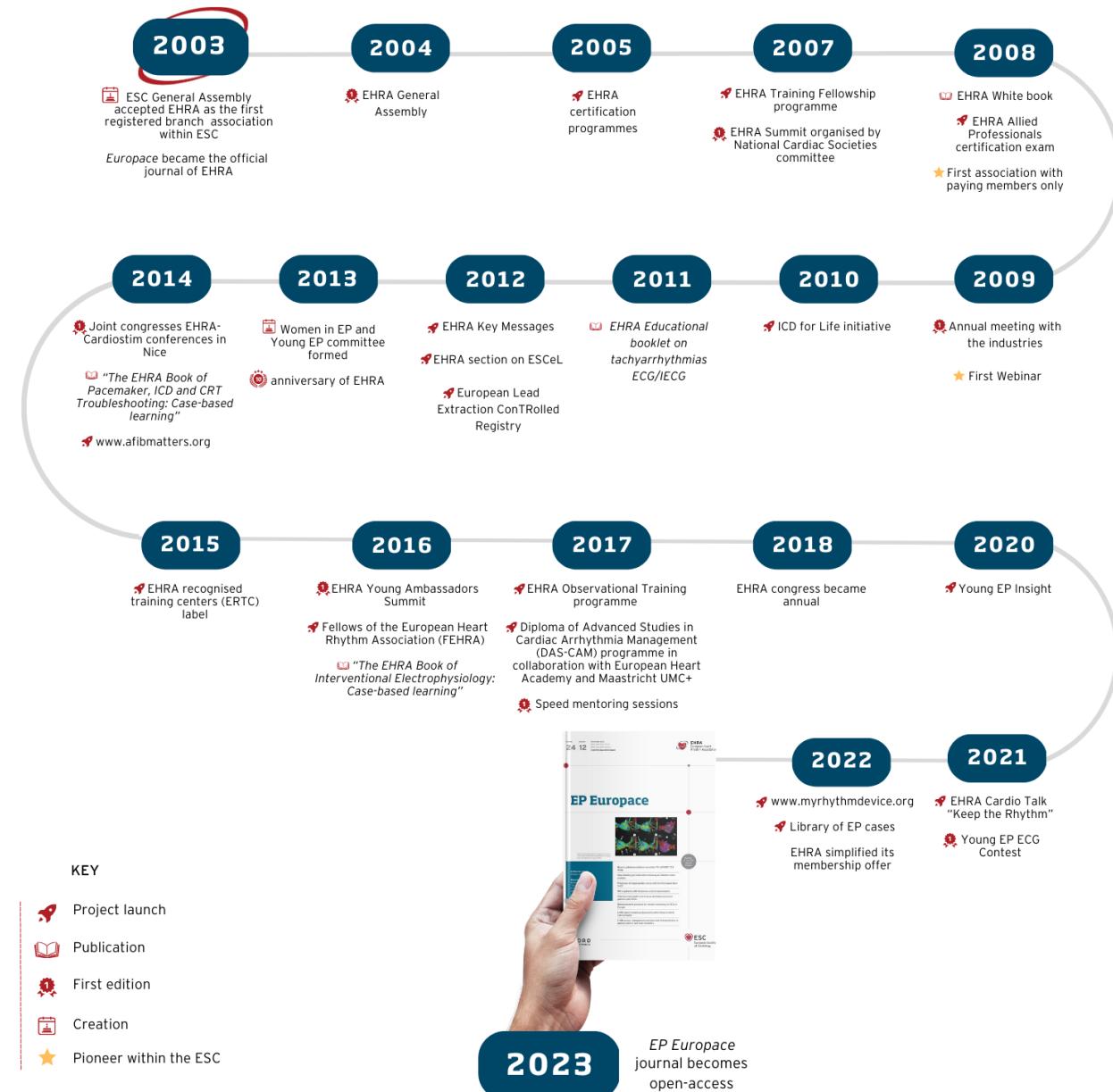
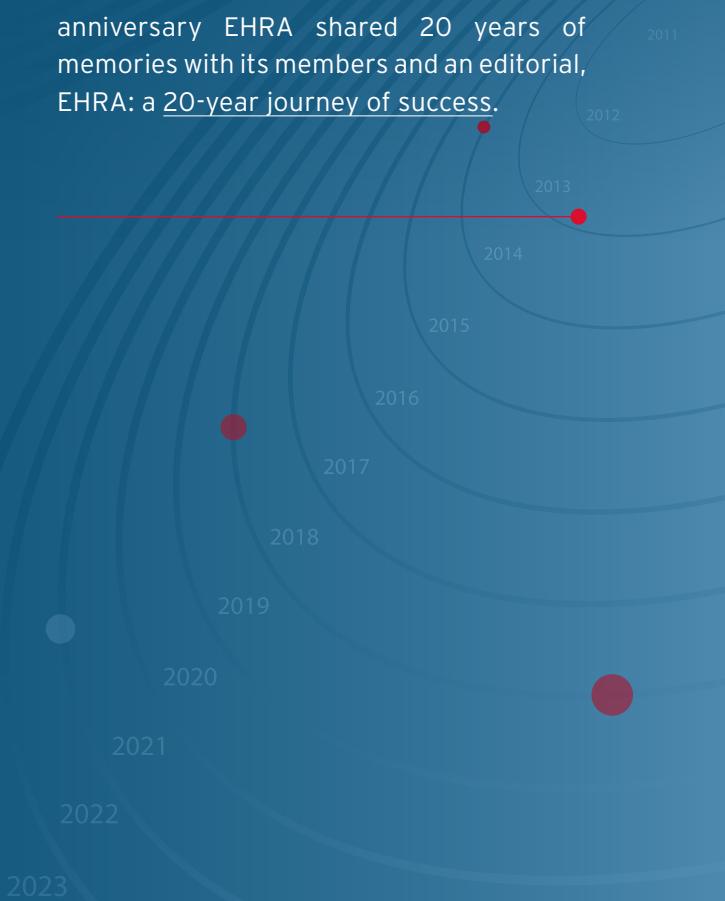
+90 Consensus and Position Papers
+250 EP cases

Journal

EP Europace
24 Volumes
+ 4,000 papers published
6.1 Impact Factor

EHRA Key Dates

To learn more about EHRA and its history, on the occasion of the association's 20th anniversary EHRA shared 20 years of memories with its members and an editorial, EHRA: a 20-year journey of success.



EHRA Board 2022-2024

Executive Board Members

President

Prof. Jose Luis Merino (Spain)
FESC, FEHRA



Past-President

Prof. Christophe Leclercq (France)
FESC, FEHRA



President-Elect

Prof. Helmut Pürerfellner (Austria)
FESC, FEHRA



Treasurer

Prof. Isabelle C. van Gelder (The Netherlands)
FEHRA



Secretary

Prof. Haran Burri (Switzerland)
FESC, FEHRA



Ex-Officio: Appointed Member

Prof. Angelo Aurichio (Switzerland)
Editor-in-Chief of *EP Europace Journal*
FESC, FEHRA



Ex-Officio: Working Group Representatives

Prof. Ruben Casado Arroyo (Belgium)
Rep. of the ESC Working Group on e-Cardiology
FESC



Prof. Ana-Maria Gomez (France)
Rep. of the ESC Working Group on Cardiac Cellular Electrophysiology
FESC



Prof. Elijah Behr (UK)
Rep. of the European Cardiac Arrhythmia Genetic Group of EHRA
FESC



Committee Chairpersons 2022-2024

CONGRESS

Congress Scientific Programme Committee
Assoc. Prof. Serge Boveda, France
FESC, FEHRA



EDUCATION

Education Committee
Dr. Marta De Riva Silva, The Netherlands



Certification Committee
Dr. Andreu Porta-Sanchez, Spain



Selection Committee
Dr. Nikolaos Dagres, Germany
FEHRA



ELECTION

Nominating Committee
Prof. Christophe Leclercq, France
FESC, FEHRA



ADVOCACY

Advocacy & Quality Improvement Committee (AQIC)
Assoc. Prof. Elena Arbelo, Spain
FESC



Patient Committee
Prof. Jean-Claude Deharo, France
FESC



mHealth, Health Economics and PROM Committee
Prof. Giuseppe Boriani, Italy
FESC, FEHRA



COMMUNICATION

Digital and e-Communication Committee
Prof. David Duncker, Germany
FESC, FEHRA



RESEARCH

Scientific Initiatives Committee
Prof. Julian Chun, Germany
FEHRA



Scientific Documents Committee
Prof. Katja Zeppenfeld, The Netherlands
FESC, FEHRA



MEMBERSHIP

International Affairs Committee
Prof. Gregory Y. H. Lip, UK
FESC, FEHRA



National Cardiac Societies Committee
Dr. Michal Farkowski, Poland



Young EP Committee
Dr. Katarzyna Malaczynska-Rajpold, UK



Congress

Chairperson
Assoc. Prof. Serge Boveda,
France
FESC, FEHRA



Co-Chairperson
Prof. Andrea Sarkozy, Belgium
FEHRA



EHRA Congress is the annual meeting of the European Heart Rhythm Association (EHRA) and it brings together scientists, healthcare professionals and other players involved in arrhythmia management from all around the world.

This congress is always eagerly awaited because it brings the EHRA community together for networking and enjoying the thrill of discovering, learning, and sharing together in-person.

The theme of EHRA 2023 was: **20th anniversary, starting with a New EHRA.**

This year the congress, held in Barcelona and online, was a special edition with the 20th anniversary of the association. The congress was composed of an onsite part and 3 live-streamed channels for the online audience.

The focus was to bring back people together again, and therefore had specific sessions and workshops only available to the onsite audience.

For the first time, the EHRA meeting proposed novelties strongly oriented towards education and training, like the "Simulation Village", live heart anatomy workshops, and ECGs/EGMs tracings sessions.

Over 400 faculty from 38 countries provided the content that drives the congress, and it must be said that this year the congress was a success.

EHRA was proud to offer 500 congress grants.

Serge Boveda

Chair of the EHRA Congress Scientific Programme Committee 2022-2024



EHRA 2024
7-9 April
Berlin & Online

Join us in Berlin or online from
wherever you are in the world

Facts & figures

EHRA 2023 - Barcelona & Online



Participation

- **4,840** total registrations
- **4,225** onsite registrations (87%)
- **615** online registrations (13%)
- **111** countries represented



Scientific sessions

- **225** Scientific and Educational Programmes sessions
- **127** Scientific sessions
- **98** Abstract-based sessions



Abstracts and cases

- **1,257** abstracts submitted; **870** accepted; **773** presented
- **106** clinical cases submitted; **31** accepted; **29** presented
- **53** Late-Breaking Science applications; **14** accepted; **14** presented



Industry

- **15** Satellite Symposia
- Exhibition: **1,526 m²** - **49** booths
- **11** Tutorials rooms





Congress

EHRA 2023 featured six joint sessions with its sister societies.

Society	Session title	Chairs	Faculty
APHRS	<u>All about atrial tachycardias</u>	C. Ching P. Zei	J Francisco Pascual S. Miyazaki P. Lukac V. Essebag
CHRS	<u>Pacing the atria: is less more?</u>	J. Nielsen L. Sterns	M. Gold R. Parkash C. Israel D. Exner
CSPE	<u>Pacing-induced cardiomyopathy; what is the evidence?</u>	H. Purerfellner	X. Liu M. Gasparini M. Gu K. Vernooy
HRS	<u>Remote monitoring</u>	S. Boveda S. Al-Khatib	J. Han L. Fauchier S. Slotwiner H. Heidbuchel
JHRS	<u>Mapping and ablation strategies in patients with durable PVI</u>	M. O'Neill K. Satomi	H. Makimoto S. Busch S. Matsuo R. Providencia
LAHRS	<u>After diagnosis, now what?</u>	R. Casado Arroyo U. Royel	G. Conte W. Mullens A. Perez-Silva L. Aguinaga Arrascue

Education



Committee Chairperson
Dr. Marta de Riva Silva,
The Netherlands

Committee Co-Chairperson
Prof. Philipp Sommer,
Germany
FESC, FEHRA

With high-quality educational courses and webinars year-round, as well as certification and professional training and grants, education remains the most attractive benefit of being an EHRA Member. EHRA is very active in maintaining a strong connection within the community and has adapted the two EHRA courses to a hybrid format.



- ESC eLearning**
with a **Cardiac Pacing (CP)** (25 courses incl. 6 case presentations) and **Electrophysiology (EP) track** (28 courses)
- A key reference library**
with access to 400 references
- 11 webinars**
- 5 certification exams**
for EP, CP and allied professionals
- 45 EHRA Recognised Training Centres (ERTC)**

ESC eLearning

All the current knowledge has been transferred to the [new platform](#), launched in January 2023. EHRA will continue delivering a series of training modules as well as coordinating cardiovascular training for the various subspecialties.

EHRA Key Reference Library

The [Key Reference Library](#) is based on the EHRA Core Curriculum for the heart rhythm specialist and provides a guide for both electrophysiologists in training, those who plan to sit the EHRA certification exams, as well as experienced specialists wanting to update their knowledge. It includes more than 400 references from all fields of invasive electrophysiology and cardiac devices.

The Key Reference Library is a dynamic online document that EHRA Members may suggest correcting, adding or replacing content and/or references.



Education

EHRA Educational Courses

Every year, EHRA designs and provides the latest educational training programmes to help maintain professional excellence among cardiologists specialising in cardiac devices and electrophysiology. In 2023, EHRA delivered five courses.

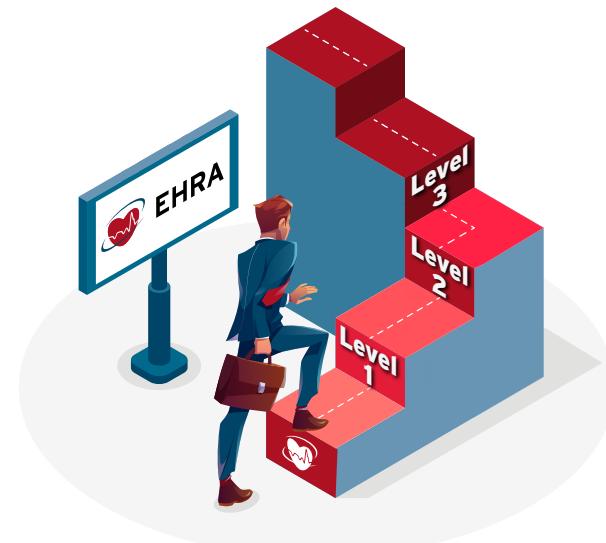
Date	Topic	Location	Course Director	Attendees
April	EHRA 2023 conduction system pacing summit	Onsite Barcelona, Spain	H. Burri	275
May	EHRA Interventional EP and Examination Preparatory Course (EPC)	Onsite Lisbon, Portugal	M. Hemels I. Roca	45
June	EHRA Course on Cardiac Pacing, ICD and Cardiac Resynchronisation	Onsite Berlin, Germany	C. Israel K. Vernooy	127
Oct.	EHRA Course on Advanced EP, with Focus on AF Ablation	Onsite Warsaw, Poland	T. De Potter D. Gupta	38
Nov.	EHRA Course on Advanced EP, with Focus on VT Ablation	Onsite Athens, Greece	D. Shah A. Sarkozy	42

COMING
SOON

NEW in 2024! EHRA Educational Framework

The EHRA Education committee has been working on a **new educational framework** consisting of 3 levels dedicated to the **arrhythmia fellow**, **arrhythmia specialist** and **arrhythmia leader**, respectively. For that, a new online basic course is being developed and all existing courses will be organised in two separate EP and pacing tracks. A new course on **advanced pacing including conduction system pacing and leadless devices** will be organised beginning 2024.

In addition, a **shorter one-year DASCAM programme** is being designed, highly focused on the **acquisition of skills and knowledge**, which are important for the future arrhythmia leaders.



Webinars

EHRA organised a total of 10 webinars in 2023, as shown in the table below.

EHRA conducted five webinars exclusive to EHRA Members* and 2 open-access webinars (available to all). Furthermore, EHRA delivers quarterly "Fundamentals in arrhythmias" webinars which address general cardiologists, cardiology fellows in training (young EHRA Members, Cardiologists of Tomorrow (COT)) and cardiologists wishing to update their scientific knowledge on the topic. Three of these fundamental webinars were made accessible to all.

Date	Topic	Presenter	Moderator	Attendees
Jan.	Differential diagnosis of wide QRS complex tachycardias - FUNDAMENTAL	S. Richter	M. De Riva Silva	661
Feb.	The electrocardiogram in the diagnosis and risk stratification of primary arrhythmic syndromes*	V. Probst & A. Sarkozy	E. Arbelo	177
March	Management of ventricular arrhythmias in myocarditis*	G. Peretto	C. de Chillou	125
Apr.	Highlight from EHRA 2023*	S. Boveda	A. Sarkozy	143
May	Analysis and interpretation of pacemaker and ICD ECGs - FUNDAMENTAL	H. Burri	C. Israel	782
June	Current role of ablation for the treatment of VA: insights from the 2022 ESC guidelines for the management of patients with ventricular arrhythmias and prevention of SCD*	T. Reichlin	K. Zeppenfeld	107
Jul.	The impact of atrial fibrillation ablation on heart failure with preserved ejection fraction*	A. Sultan	M. Rienstra	71
Sept.	Pacemaker and defibrillator emergencies - FUNDAMENTAL	J. Vogler	J-C. Deharo	342
Sept.	Short-acting beta-blockade in the acute treatment of arrhythmias: friend or foe?	J. Parissis & H. Pürerfellner	G-A. Dan	533
Dec.	The past, present and future of leadless pacing	M. Pachon & M. Finlay	T. Reichlin	369

*Restricted to EHRA members.

EHRA Collaborative Courses

EHRA in Kazakhstan

The fourth edition of the EHRA collaborative course in Kazakhstan took place online and onsite (Astana, Kazakhstan) on 13 & 14 October 2023.

This course titled 'Cardiac arrhythmia management and cardiac electrophysiology for cardiologists' was organised by the Kazakh Society of Arrhythmologists with the participation of EHRA faculty; José Luis Merino was the course director for this edition.

Key figures



286 participated in person and **250** participated online



31 speakers with **35** presentations



5 master classes



5 live cases

Education



STEER-AF

The Stroke prevention & rhythm control Therapy (STEER-AF) project consists in the evaluation of an educational programme of the European Society of Cardiology (ESC), in an unblinded cluster-randomised controlled trial, in patients with atrial fibrillation. This is a two-armed, parallel-design, international multicentre trial (3 phase project).

In 2014, EHRA, together with the ESC and the ESC Council on Stroke, performed a needs assessment (Phase 1 - completed) to understand the educational needs of cardiologists, neurologists and GPs/FPs in six countries (Germany, France, Italy, Spain, UK and Poland) in the following areas:

1. Current treatment and management of AF
2. Utilisation of optimal stroke prevention strategies with AF patients
3. Other potential issues and barriers in the management of AF

This study also included the design and the deployment of accredited educational activities allowing participants to gain up to 11 CME points (Phase 2 - in progress).

A quantitative study to assess outcome using a pragmatic cluster-randomised trial will be conducted in those six ESC countries and will be led by investigators from those countries, with 10 to 15 sites per country (Phase 3 - in progress). The primary objective of the trial will be to determine whether a comprehensive education programme for healthcare professionals who treat patients with AF will improve guideline-adherent treatment for stroke prevention and rhythm control, compared with no structured education.

The follow-up of the study is ongoing.

- All centres have been activated in the six participating countries (70 sites) and have completed the patient enrolment phase (target of 25 patients per center).
- The randomisation of the centres started in May 2022 and is effective for all of them.
- A quality analysis was used to check the baseline data for the 1,732 patients.
- The educational programme has also been completed. 18 sessions (3 per country) were organised for centres randomised to the intervention arm.
- Follow-up visits between six and nine were completed at the end of 2023.
- The project will be fully completed by the end of 2024.



Certification

**Committee Chairperson**

Dr. Andreu Porta-Sanchez,
Spain

**Committee Co-Chairperson**

Dr. Malcolm Finlay,
UK



Designed to certify both practical experience and expertise in cardiac devices and electrophysiology, EHRA Certification was launched in 2005. In recent years, success rates have improved, which may in part be due to the exam preparatory courses organised by the EHRA Education committee.

The online format allowed candidates to sit the EHRA certification exam using their own computer or tablet from their preferred location.

The exam consists of a rigorous test of knowledge with pass marks set by the standard-setting committee using validated statistical methods. EHRA certification process assesses the competence, knowledge and skills of physicians and allied professionals. Success in the exam provides a 10-year certification at level 1, but for physicians, an additional logbook is needed to achieve the full level 2 certification.

Initial certification is valid for 10 years, after which candidates must apply for recertification to keep the certification valid. Recertification for EP and CP physicians was launched in 2023. The recertification process consists of a checklist to validate continuing engagement in EHRA educational activities and attendance of the EHRA annual congresses. 52 candidates have already applied for recertification in CP and 36 candidates applied for recertification in EP.

The proportion of candidates who passed the online exams in 2023

**ELECTROPHYSIOLOGY**

68% candidates passed

**CARDIAC DEVICES**

79% candidates passed

**ALLIED PROFESSIONALS**

63% passed - English exam in EP
50% passed - English in CP
81% passed - Dutch AP exam

**EHRA EP exam in Spanish with LAHRS**

71% passed

**RECERTIFICATION**

CP: 52 candidates have already applied
EP: 36 candidates have already applied

| Certification



EHRA Recognised Training Centres (ERTC)

The EHRA Certification committee is also in charge of [EHRA Recognised Training Centres \(ERTC\)](#), an initiative that encourages good educational practices by providing a quality label for training excellence and efficiency.

Three new centres went through the selection process in 2023, and **five centres** went through the renewal process, bringing the total number of ERTC to **50**.

The ERTC renewal process was also launched in 2022. Therefore, centres who joined more than five years ago were asked to renew their certification.



Selection



Committee Chairperson
Dr. Nikolaos Dagres,
Germany
FEHRA

Committee Co-Chairperson
Dr. Tom De Potter,
Belgium
FEHRA

The EHRA Selection committee continues to manage training fellowship activities which promote the development of academic medicine in the field of cardiac rhythm disorders.

EHRA Training Fellowship Grants

EHRA Training Fellowships are offered to give physicians the opportunity to gain specialised training in clinical electrophysiology or cardiac pacing carried out in an ESC member country, preferably outside their home country.

Two EHRA Training Fellowship grants (one in Electrophysiology and one in Cardiac Pacing) were awarded to physicians from across Europe.

EHRA Observational Training Programme (EOTP)

In 2023, **four electrophysiologists** received a grant to visit a centre for two to four weeks.

EHRA Congress Educational Grants

The Selection committee is also responsible for the selection of candidates who are awarded the EHRA Congress Grants based on the criteria set by the EHRA Board. **500 congress grants were made available** for EHRA 2023 (Barcelona, Spain) allowing winners to benefit from a free congress registration and part of their travel costs covered.



Fellow of EHRA (FEHRA)

Lastly, the EHRA Selection Committee is also responsible for reviewing the Fellow of EHRA (FEHRA) applications. This prestigious title recognises EHRA Members who have made exceptional contributions to cardiac rhythm, distinguishing themselves in clinical, educational, and organisational aspects of the field.

In 2023, the FEHRA title was awarded to 20 prominent EHRA Members.



 | Advocacy

“

The mission of the European Heart Rhythm Association (EHRA) is to improve the quality of life and reduce sudden cardiac death by limiting the impact of heart rhythm disturbances. To this end, the heart rhythm professionals need to interact with decision-makers in healthcare, other medical and professional associations, industry partners, and patient advocacy organisations, to provide expert advice and support and promote optimal health care policies and standards. Furthermore, the profession needs to promote the implementation of quality improvement initiatives keeping the focus on the patient, to address gaps and disparities in practice, improve outcomes of care and encourage communication, coordination and collaboration between all professionals treating patients with heart rhythm disorders.

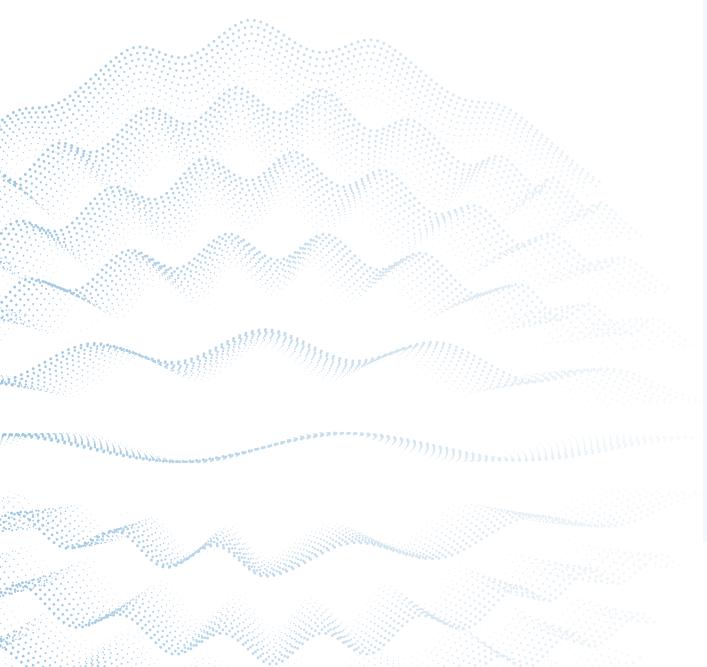
The overarching goal of EHRA's Advocacy and Quality Improvement committee (AQIC), in collaboration with other EHRA committees, is to provide a platform to implement and coordinate these activities to ultimately serve the mission of the EHRA. ”

Elena Arbelo, EHRA AQIC Chairperson





Advocacy and Quality Improvement





Committee Chairperson
Assoc. Prof. Elena Arbelo,
Spain
FESC





Committee Co-Chairperson
Assoc. Prof. Tatjana Potpara,
Serbia



The EHRA Advocacy and Quality Improvement Committee (AQIC) actively pursues EHRA's goals in advocacy and quality-related matters, contributing to various committees and collaborations. Here's a summary of the committee's key objectives and activities throughout 2023.

Advocacy:

- a) Representation of EHRA in the ESC Advocacy committees, and supporting the ESC at EU level:**
 - AQIC represents EHRA in the ESC Regulatory Affairs Committee, contributing to task forces analysing the impact of new regulations and defining unmet medical needs.
 - active participation in the European Commission's Medical Device Coordination Group task forces on orphan devices and post-market surveillance.
 - initial discussions to set up a multistakeholder advocacy initiative to raise awareness on the importance of sudden cardiac arrest at EU-level.
- b) Network Development:** Collaboration with sister societies (APHRS, HRS & LAHRS) towards the creation of a global arrhythmia awareness day (Pulse Day), a global survey on quality indicators, and a roadmap for quality improvement in cardiac arrhythmias.
- c) Access to Drugs:** Conducted a survey on antiarrhythmic drug accessibility to address challenges and disparities.
- d) Access to Medical Devices:** Raised awareness and addressed accessibility issues for heart rhythm-related medical devices, including involvement in EU Medical Device Coordination Group (EU MDCG) taskforces.
- f) Nomenclature and Interoperability:** Actively participated in World Forum on CIED, promoting standardised nomenclature and interoperability. EHRA AQIC mediated discussions with EU parliament members and stakeholders.
- h) Patient Advocacy:** Aligned with EHRA's patient committee to strengthen communication and collaboration with patient advocacy associations.

Quality Improvement:

- a) Representation in ESC Quality matters:** participated in ESC position statement on patient-reported outcomes, emphasising their importance in cardiovascular clinical practice.
- b) Key Quality Indicators:** Awaiting re-evaluation of ESC Quality Indicators initiative; planned to propose an update for atrial fibrillation care in collaboration with sister societies.
- c) Dissemination of standardised quality indicators:** put in place several educational activities to raise awareness and promote implementation on quality indicator measurement such as a session at ESC 2023 on the 'Novel approaches: how to provide patient-centred atrial fibrillation care'. Webinars on the topic and a session at EHRA 2024 are planned for the upcoming year.
- f) Patient Reported Outcome Measures (PROMs) Collection:** working a systematic review to identify validated questionnaires for PROMs.
- i) Patient Safety:** Proposed the creation of an EHRA repository of medical device alerts and recalls to enhance patient safety and EHRA's presence as a key opinion leader.

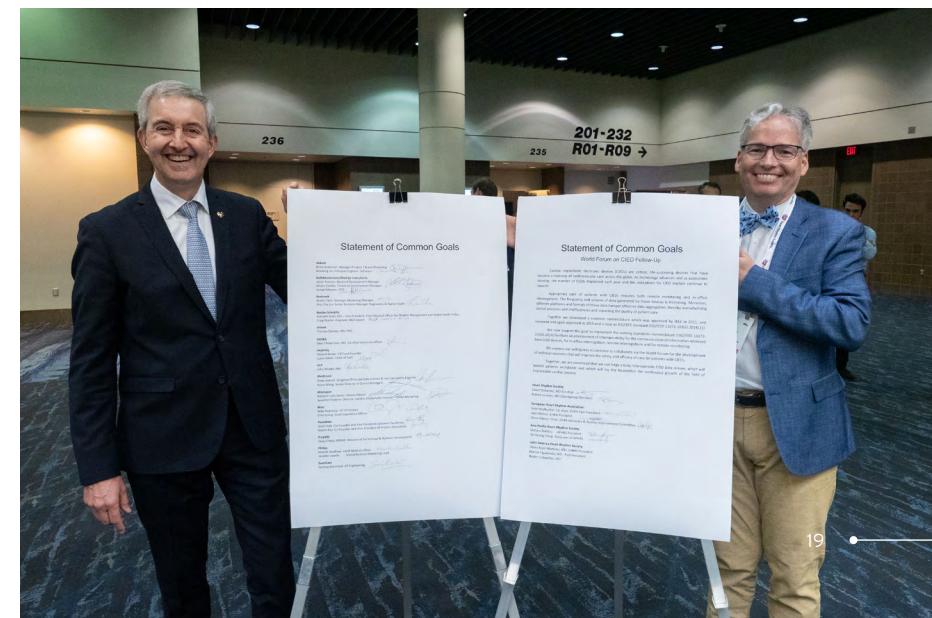
The EHRA AQIC's multifaceted approach encompasses advocacy, collaboration, quality improvement, and patient-centric initiatives, contributing significantly to EHRA's mission and the advancement of cardiovascular care.

 | CIED Forum

World Forum on Cardiac Implantable Electronic Devices (CIED)

Under the leadership of Prof. Hein Heidbuchel (EHRA Past President) and Prof. David Slotwiner (HRS representative), all four EP societies (i.e. also APHRS and LAHRS) created a Worldwide Forum on Remote CIED Follow-up in 2022. All **5 major device manufacturers** and **12 middleware companies** (i.e. companies that provide solutions to integrate (remote) interrogations from different vendors into hospital information systems) are part of the Forum. After an inaugural session at the ESC meeting in August 2022 and an intermediary meeting at EHRA 2023 in Barcelona, a **"Statement of Common Goals"** was solemnly signed by all participants at the HRS meeting in New Orleans in May 2023 (see photos). The common goal is "to implement the existing standards nomenclature (ISO/IEEE 11073-10103:2014) in order to facilitate an environment of interoperability for the communication of information retrieved from CIED devices, for in-office interrogation, remote interrogations and for remote monitoring." Read this as a sort of "DICOM for CIED devices"!

The Forum is now exploring ways to concretise this goal through collaboration with CardX, an HL7-sponsored Fast Healthcare Interoperability Resources (FHIR) Accelerator. CardX is an international stakeholder-driven platform to develop data exchange standards that solve real clinical needs. The Forum and CardX hope to start working on a first use case, i.e. checking whether a telemetry device is actually transmitting, which is an important issue for all electrophysiologists remotely following-up devices. To be continued!



Patients



Committee Chairperson
Prof. Jean-Claude Deharo,
France FESC



Committee Co-Chairperson
Dr. Francisco Moscoso Costa,
Portugal FESC



The EHRA patient committee is also committed to measuring patient reported experience and outcomes and participates in other projects and activities, on top of improving the patient websites.

EHRA offers informative and up-to-date educational resources to patients through its dedicated websites, '[afibmatters.org](#)' and '[myrhythmdevice.org](#).' These platforms help patients make informed decisions when engaging in discussions about their treatment plans with their physicians.

FindmyEP

A [directory](#) to help patients locate EP experts in their home country or when travelling abroad. This tool can also be used by physicians to connect with their peers and connect with healthcare providers in clinical, educational, and research services.



[afibmatters.org](#)

Available in 13 languages



New in 2023

- Patient-Physician Video interview was added 'Discussing your concerns with your physician'
- **Users increased by 43% compared to the previous year and page views by 35%**



[myrhythmdevice.org](#)

Launched in March 2022, the committee has worked on improvements following patients' feedback.

New in 2023

- 2 new languages on top of english
- [Section on Sudden Cardiac Death added](#)
- [Patient-Physician Video interview 'Discussing your concerns with your physician'](#)



MY RHYTHM DEVICE
PATIENT RESOURCES

- **'Patient experience in the EP lab'** - a survey was conducted from June to September 2023, translated in 10 languages. Analysis ongoing, the results will be published in 2024
- **3 congress sessions** at EHRA 2023 with patient participation:
 - [Complications in AF ablation](#) (F. Steinbach)
 - [Will remote monitoring for arrhythmias take over?](#) (A. Verstraet)
 - [Become a Social Media Pro](#) (I. Drossart)



mHealth, Health Economics and PROM



Chairperson

Prof. Giuseppe Boriani, Italy
FESC, FEHRA



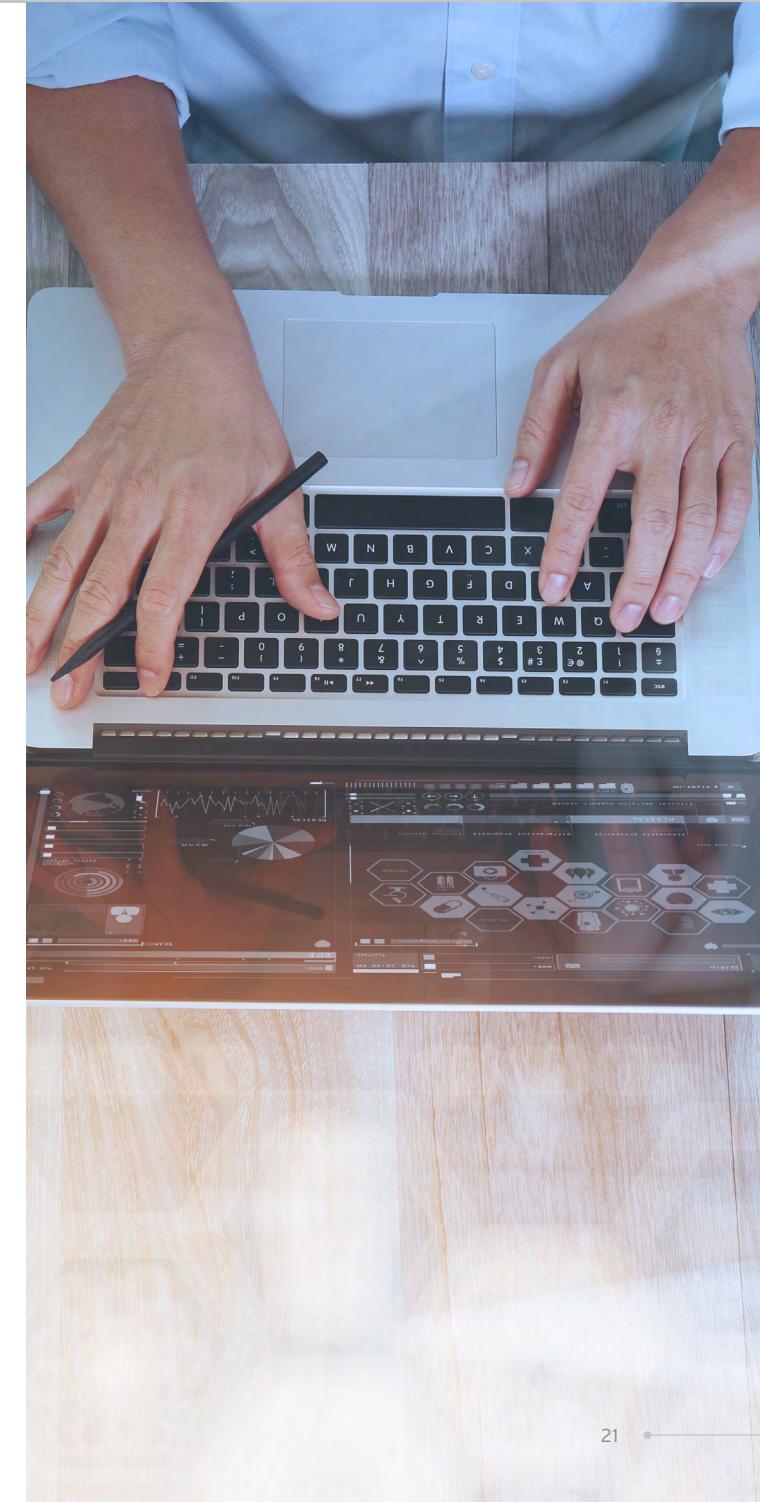
Co-Chairperson

Prof. Ruben Casado Arroyo,
Belgium



In 2023, the EHRA mHealth, Health Economics and PROM Committee undertook various initiatives:

- **Survey on the organisation of EP procedures (Published):** conducted a comprehensive survey on the organisation of electrophysiological (EP) procedures, focusing on the length of hospital stays for elective cases. The results were published in the *EP Europace Journal* (October 2023).
- **Review paper on Value-Based Health Care in EP and Cardiology (Terminated):** Initiated a review paper on Value-Based Health Care in Electrophysiology (EP) and Cardiology. The paper is planned to be submitted for publication in early 2024.
- **Systematic review of Literature on same-day discharge of AF Ablation (Ongoing):** undertook an advanced systematic review of literature on the same-day discharge of Atrial fibrillation (AF) ablation. The manuscript is expected to be submitted for publication in early 2024.
- **Cost effectiveness of ICDs and CRTD:** proposed a project to assess the cost-effectiveness of Implantable Cardioverter-Defibrillators (ICDs) and Cardiac Resynchronization Therapy Defibrillators (CRTD). The objective is to update prior assessments, utilising new calculations with a Markov model. The initial assessments, published by Cowie MR et al. in *Europace* in 2009, are considered outdated. The project is in the planning stage and is expected to be executed early 2024.
- **Survey on Public Tendering:** currently conducting a survey on public tendering with the aim of understanding the current situation in the European Society of Cardiology (ESC) National Cardiac Societies (NCS) countries. The scope extends beyond devices, and the questionnaire is under review. Once finalised, it will be shared with the EHRA NCS committee Chair. The survey is set to be concluded by April 2024.





EU Projects

AFFECT-EU

The [project](#) involves 14 EU countries. Its main goal is to develop an accurate, risk-based and ready-for- implementation AF screening algorithm using digital devices for early detection and reduction of AF-related health inequities, morbidity and mortality in Europe.

In the last year, 8 deliverables have been submitted to the commission across all seven work packages.

During the reporting period, significant progress was made in WP1. This includes preparing a data transfer agreement for potential collaboration with external partners, identifying and incorporating additional studies, executing data transfer agreements with project partners and some external studies, initiating the data transfer process, setting up a data storage database, and establishing an agreement for data processing with Canada. By summer 2023, data transfer agreements were fully executed with most project partners and some external studies, with data received from several sources. The next steps involve obtaining data from the remaining partners and addressing legal issues for data transfer and processing with Canada for the meta-analysis. Other deliverables that were submitted between the end of 2021 and 2022 included dissemination and communication activities, reports on critical model parameters, the harmonisation of datasets of AF-related health determinants and catalogues of variables relevant to the project, ethics requirements and considerations, and an improvement of the model for risk-stratified AF prediction.

The project has been extended until 30 March 2024.

The project was showcased at EHRA and ESC Congresses 2023 through scientific sessions.

PROFID EHRA

The aim of [PROFID EHRA](#) is to develop a personalised prediction of risk for Sudden Cardiac Death (SCD) after myocardial infarction, a leading cause of death in Europe, as well as a personalised SCD prevention by targeted implantation of an implantable cardioverter- defibrillator. The goal is to successfully prevent the majority of the catastrophic SCD events that occur after myocardial infarction by accurate and timely identification of patients that are at high risk for SCD followed by implantable cardioverter defibrillator implantation.

In 2023, PROFID EHRA partners progressed on the preparations required ahead of the beginning of the clinical trial. The Clinical trial was discussed at ESC Congress 2023 (Amsterdam) in an ESC-TV session titled "The PROFID EHRA clinical trial" with Dr. Nikolaos Dagres Prof. Gerhard Hindricks and Raphaela Kubeck.

The beginning of the clinical trial started in November.

The PROFID EHRA trial will be the first randomised adequately powered assessment of the potential benefit of ICD therapy in myocardial infarction survivors with reduced LVEF under contemporary optimal medical therapy. International chief investigator of the PROFID EHRA trial, Dr. Nikolaos Dagres (Germany) shared: "A novel randomised assessment of the ICD benefit in these patients is urgently needed in order to close a significant evidence gap for a major aspect of clinical routine."

Participants will be randomly allocated in a 1:1 ratio to 1) optimal medical therapy alone or 2) optimal medical therapy with ICD implantation. The primary outcome is all-cause mortality. Secondary outcomes include death from cardiovascular causes, sudden cardiac death, hospital readmissions for cardiovascular causes, length of stay in hospital and quality of life. A cost effectiveness analysis will also be conducted. The study will last around 49 months, with results expected in early 2027.

*PROFID EHRA



These projects have received funding from the European Union's Horizon 2020 research and Innovation programme under Grant Agreements No. 847770, No. 847999 and No. 945260.

EU Projects

EHRA-PATHS

EHRA/ESC is the coordinator on this [project](#) funded by the European Commission for a period of 60 months starting on 1 April, 2021. The project aims to transform and improve the clinical practice in the field of AF to holistic, inclusive and personalised treatment strategies. It will change the single-disease focused approach to a multi-factorial approach considering multimorbidity, polypharmacy, and sex. This transformation could lead to a reduction in the yearly European healthcare burden of multimorbid, elderly AF patients (>65 years of age), both medically and financially.

Results of patient interviews were presented for the first time at EHRA 2023, highlighting the need for integrated care and interprofessional working to optimise the health of patients with multimorbid atrial fibrillation. The in-depth interviews included 30 atrial fibrillation patients with two or more additional conditions from Belgium, Greece, Poland, Spain and The Netherlands. The average age was 73 years and 37% were women. The most common comorbidity was high blood pressure, followed by high cholesterol, obesity, hypothyroidism and diabetes. Interviewees stressed the need for better communication between primary care and hospitals. During this year, EHRA-PATHS investigators have defined 22 comorbidities that are relevant in patients with atrial fibrillation. For each, the consortium has created concise care pathways to check for or exclude whether a given comorbidity is present, to guide its further evaluation, and to ensure its effective management. The care pathways are now being integrated in a software tool that will assist healthcare personnel to evaluate atrial fibrillation patients in a systematic and comprehensive way.

ESC and EHRA project teams also worked on the very [first project video](#) which highlights the main important aspects of the project.

During [ESC Congress 2023](#), Prof. Hein Heidbuchel and Dr Emma Svennberg also discussed Integrated comorbidity care in patients with atrial fibrillation.



EHRA-PATHS: Addressing multimorbidity in elderly atrial fibrillation patients through interdisciplinary, patient-centred, systematic care pathways

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 945260

Geraldine Lee
WP2 Leader // Mapping clinical practices and gap identification

Watch on YouTube



These projects have received funding from the European Union's Horizon 2020 research and Innovation programme under Grant Agreements No. 847770, No. 847999 and No. 945260.

🌐 | Digital and e-Communication committee

	Committee Chairperson Prof. David Duncker, Germany FESC, FEHRA	
	e-Communication Subcommittee Co-Chairperson Dr. Rodrigue Garcia, France FESC	
	Digital subcommittee Co-Chairperson Dr Emma Svensson, Sweden FESC, FEHRA	

6,679 posts
#EHRA2023

61,099K impressions
(the number of impressions doubled compared to 2022)

@EHRAPresident
4,100 followers

12 bulletins
more than 41,000 subscribers



4 member newsletters
more than 4,000 subscribers

Engagement rate = 6%*

*most social media marketing experts agree that a good engagement rate is between 1% to 5%



The Digital & e-Communication committee were highly involved in the EHRA 2023 congress and the association's 20th anniversary. New activities involved the #EHRAmotions (short videos sharing the direct and onsite congress experience), #EHRAsnacks (interviews and discussions on hot topics) and the EHRA good morning and wrap-up sessions (introducing the daily congress highlights).

12 snacks

1 daily Good morning & Wrap-up session

EHRAmotions
15 interviews by 3 teams

12 Social Media Ambassadors





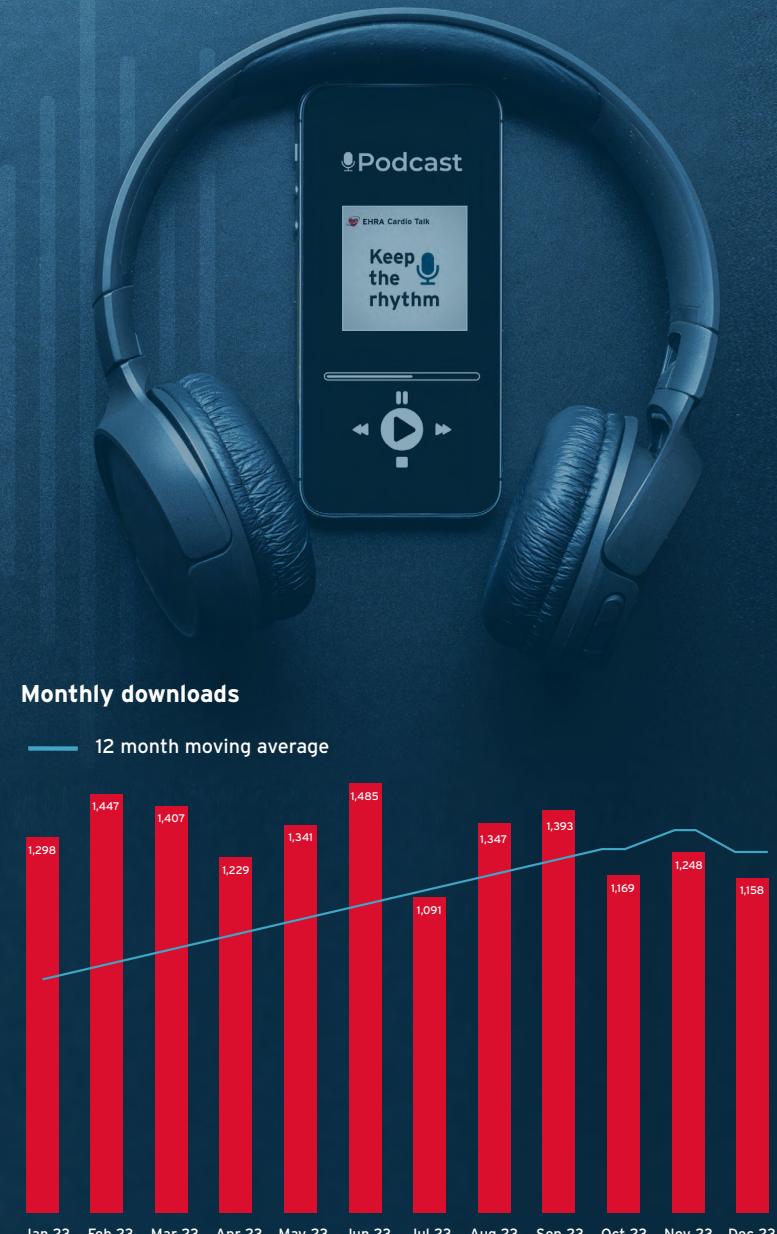
Communication

Podcasts

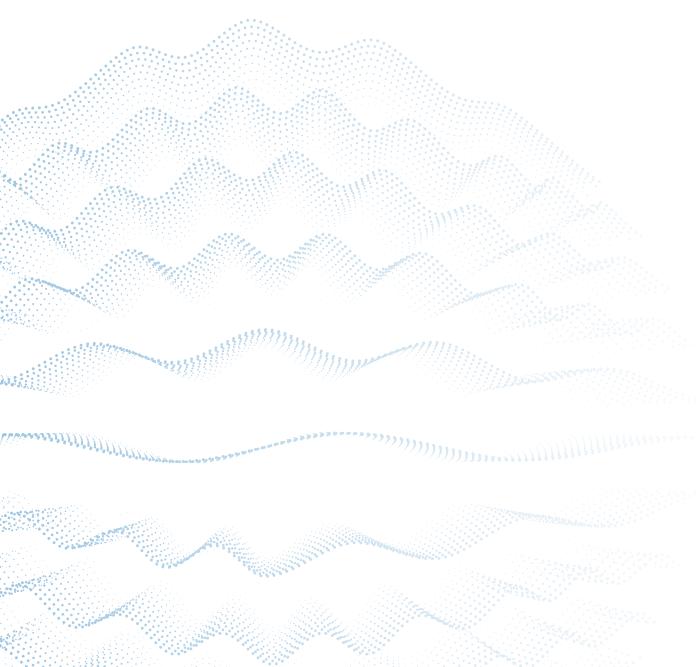
The monthly podcast series features key opinion leaders in Electrophysiology and Cardiac Pacing tackling topics about EHRA papers, interviews with experts, and education.

The 2023 podcasts were hosted by D. Duncker and, on some occasions, R. Garcia and D. Linz.

Topics	Guest(s)	Release date in 2023
Brugada syndrome by Pedro Brugada	P. Brugada Terradellas	2 January
Genetic testing for cardiac diseases	A. Wilde & E. Behr	1 February
EP Europace journal	A. Auricchio	1 March
EHRA 2023 congress	A. Sarkozy & S. Boveda	3 April
New technologies for AF ablation	T. De Potter	1 May
Future of Digital Health	S. Narayan	1 June
Early days of electrophysiology	H. Klein	1 July
EHRA Clinical Consensus Statement on CSP	H. Burri	1 August
EHRA Educational programme	M. De Riva Silva H. Pürerfellner	1 September
Digital education	M. Loyd & P. Sanders	1 October
Arrhythmic mitral valve prolapse	A. Sabbag	1 November
My favourite studies 2023	J. Chun	1 December



Scientific Initiatives



Committee Chairperson
Prof. Julian Chun,
Germany
FEHRA

Committee Co-Chairperson
Dr. Sergio Castrejon,
Spain
FEHRA

The Scientific Initiatives Committee (SIC) undertakes research providing a picture of daily EP practice and insight into how consistently arrhythmia treatment is applied across ESC member countries.

The SIC conducts several types of surveys including centre-based (addressing the EHRA Scientific Research Network which represent more than 300 centres), physician-based (addressing the EHRA membership) and patient-based (in collaboration with the EHRA patient committee), together with other initiatives, such as systematic reviews and meta-analysis.

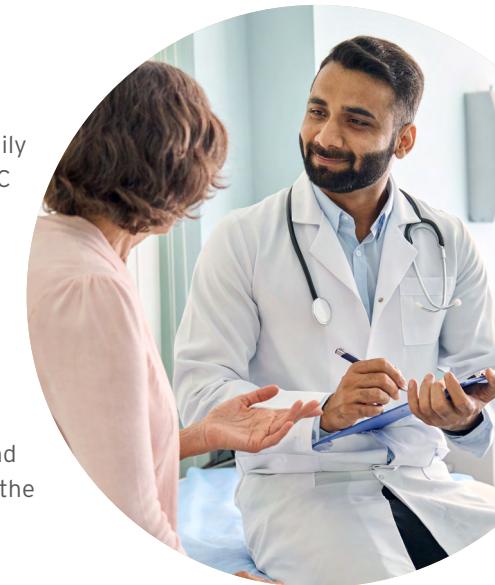
The EHRA 2022-2024 committee also invites external members to submit their proposals and collaborate with the EHRA SIC on research projects to help close the gap(s) of evidence in the field of electrophysiology or pacing, with emphasis on:

- Arrhythmia management/patient care
- Implementation of technological innovations
- Arrhythmias and heart failure

2023 publications include the following:

- Prevention of venous thromboembolism in right heart-sided electrophysiological procedures: results of a European Heart Rhythm Association survey (December 2023)
- Length of hospital stay for elective electrophysiological procedures (October 2023)
- Electrophysiology fellowship experience and requirements: results of an EHRA survey (September 2023)
- Occupational radiation exposure of electrophysiology staff with reproductive potential and during pregnancy: results of an EHRA survey (July 2023)
- Diagnostic and therapeutic pathways for the malignant left atrial appendage: results of an EHRA survey (July 2023)
- Regional disparity on patient characteristics and perceptions after implantable cardioverter-defibrillator implantation: results from an EHRA patient survey (May 2023)
- Major gaps in the information provided to patients before implantation of cardioverter defibrillators: a prospective patient European evaluation (March 2023)

All survey results are published in EP Europace and on EHRA/ESC website.



Scientific Documents



Committee Chairperson

Prof. Katja Zeppenfeld,
The Netherlands
FESC, EHRA



Committee Co-Chairperson

Prof. Jens Cosedis Nielsen,
Denmark
FESC, EHRA



The Scientific Documents Committee facilitates, develops and publishes scientific documents that address highly relevant topics for heart rhythm specialists according to the newly developed EHRA scientific document policy. Clinical consensus statements provide important guidance for clinical management on topics not covered or not covered in sufficient detail in existing or upcoming ESC Clinical Practice Guidelines. Scientific statements systematically review and interpret scientific evidence followed by a summary position of EHRA, while statements outline and convey the position of EHRA on non-medical issues. The members of the writing groups are selected based on their internationally recognized expertise and experience in the field and aim to closely collaborate with other ESC associations, councils and working groups and international sister societies. EHRA scientific documents are peer reviewed and published in the *EP Europace Journal*.

Recent published documents include:

- [Practical guidance to reduce radiation exposure in electrophysiology applying ultra low-dose protocols: an EHRA review](#)
- [EHRA expert consensus document on the management of arrhythmias in frailty syndrome, endorsed by the Heart Rhythm Society \(HRS\), Asia Pacific Heart Rhythm Society \(APHRS\), Latin America Heart Rhythm Society \(LAHRS\), and Cardiac Arrhythmia Society of Southern Africa \(CASSA\)](#)
- [EHRA clinical consensus statement on conduction system pacing implantation: endorsed by the Asia Pacific Heart Rhythm Society \(APHRS\), Canadian Heart Rhythm Society \(CHRS\), and Latin American Heart Rhythm Society \(LAHRS\)](#)

Upcoming documents currently in review and to be published shortly are the following:

- European Heart Rhythm Association (EHRA)/Heart Rhythm Society (HRS)/Asia Pacific Heart Rhythm Society (APHRS)/Latin American Heart Rhythm Society (LAHRS) Expert Consensus Statement on Catheter and Surgical Ablation of Atrial Fibrillation
- European Heart Rhythm Association (EHRA) Clinical Consensus Statement on the Management of Patients with an Electrical Storm or Clustered Ventricular Arrhythmias
- Pre- and Post-Procedural Cardiac Imaging (CT and MRI) in Electrophysiology. A Clinical Consensus Statement of the European Heart Rhythm Association (EHRA) and European Association Cardiovascular Imaging (EACVI) of the ESC
- Ventricular tachycardia substrate delineation and data transfer for stereotactic body radiotherapy: A EHRA Clinical Consensus Statement
- Update EHRA/HRS/APHRS/LAHRS Clinical Consensus Statement on atrial cardiomyopathy

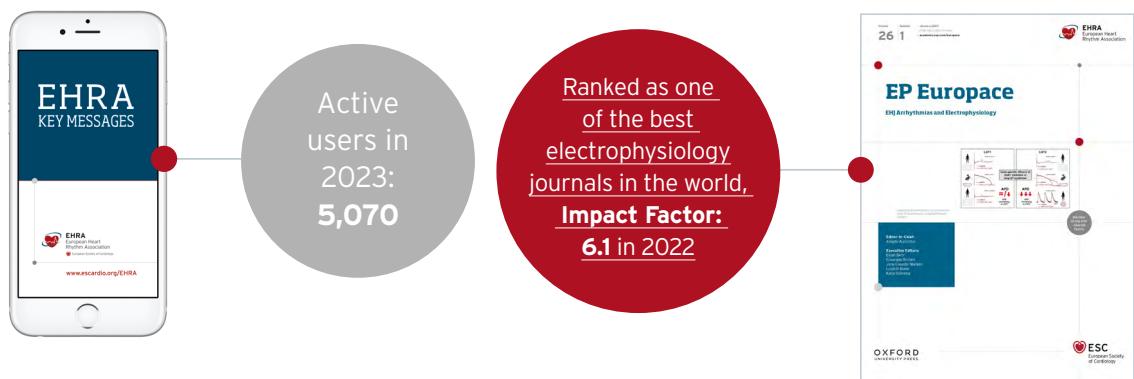
Scientific Documents

EP Europace

Official journal of EHRA, the ESC Working Groups on Cardiac Cellular Electrophysiology and e-Cardiology.

What happened in 2023?

- On 1 January Angelo Auricchio succeeded Gerhard Hindricks as Editor-in-Chief of *EP Europace*.
- The journal became open access on 1 January
- 2023 marked the journal's 25 anniversary. This event was celebrated with special issues compiling a series of state-of-the-art reviews, commissioned by the Editorial Board.

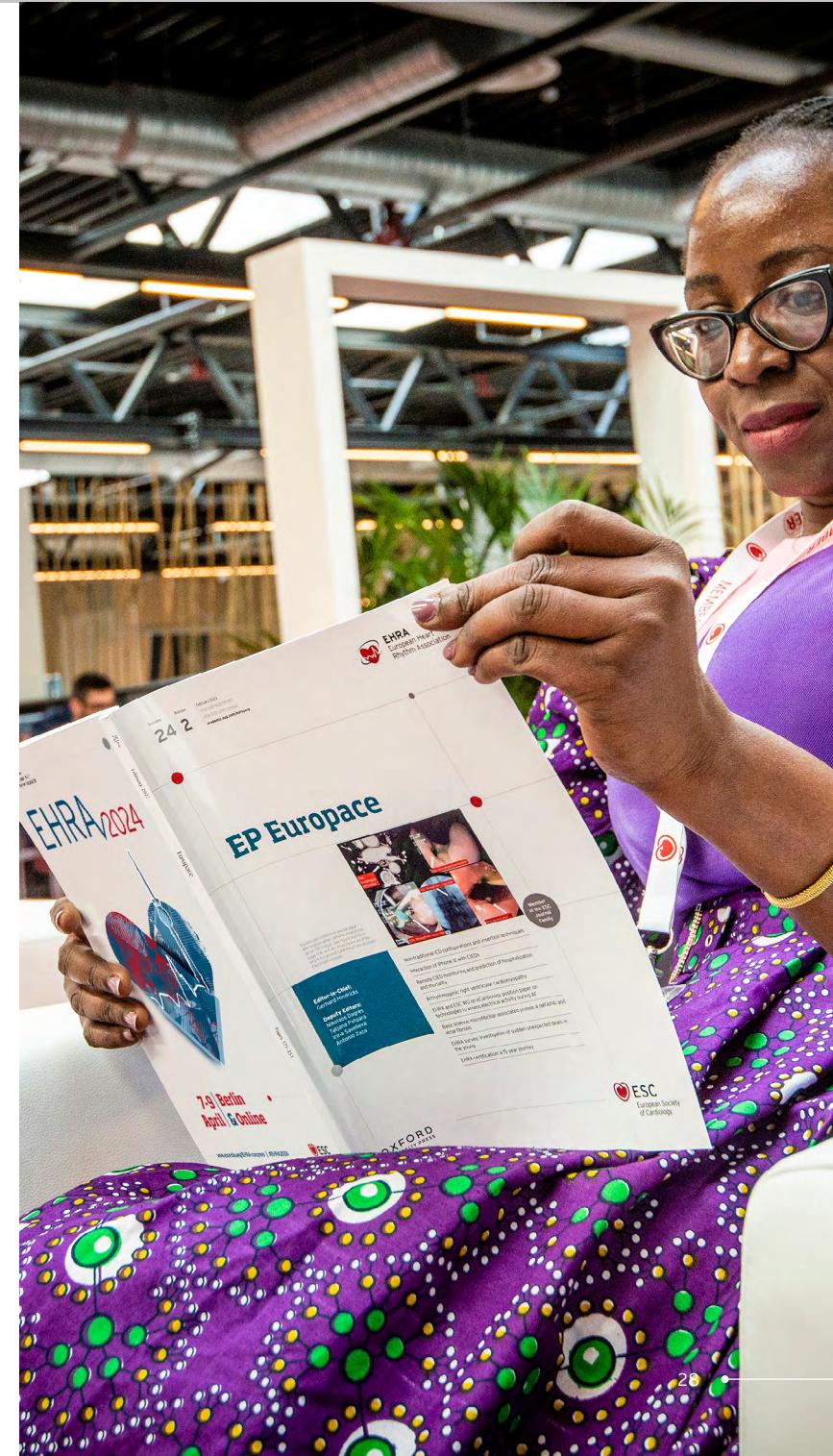


EHRA Key Messages App

Free app containing the main messages and highlights of published scientific documents in concise and accessible formats.

2,234 visitors in April when the Conduction System Pacing (CSP) document was released.

Top 3 EHRA Key Messages in 2023	Views
1. EHRA Practical Guide on the use of NOACs	35,505
2. EHRA Clinical Consensus Statement on CSP implantation	9,527
3. How to use digital devices to detect and manage arrhythmias	6,409



Scientific Documents

EAST AFNET 4 Trial

The EAST-AFNET 4 trial impressively documents that early rhythm control (ERC) significantly reduces cardiovascular outcomes in patients with early atrial fibrillation (AF) compared to usual care, as illustrated by a reduction of cardiovascular death, stroke, and hospitalisation for acute coronary syndrome or worsening of heart failure. This effect is most pronounced in patients with high comorbidity burden and attaining sinus rhythm is the key mediator for the outcome-reducing effect of ERC. The main study result was confirmed by several subgroup analysis, supporting the prognostic benefit of ERC in different patient groups. Taken together, the EAST-AFNET 4 trial provides compelling evidence that ERC should be more widely used in clinical practice with the aim to improve outcomes for our patients with atrial fibrillation.

The 9th biannual Consensus Conference of the German Atrial Fibrillation NETwork (AFNET) and the European Heart Rhythm Association (EHRA) was held from 11 to 13 September in Münster, Germany.

A press release was published on 13 September.



International Affairs



Committee Chairperson
Prof. Gregory Y. H. Lip,
United Kingdom
FESC, FEHRA



Committee Co-Chairperson
Prof. Jan Steffel,
Switzerland
FESC, FEHRA



The EHRA International Affairs Committee helps to develop the association's international relationships by strengthening EHRA's collaboration with its sister societies.

These sister societies include the Asia Pacific Heart Rhythm Society (APHRS), Heart Rhythm Society (HRS) and the Latin American Heart Rhythm Society (LAHRS).

Thanks to its strong ties with its sister societies and with its numerous international partners EHRA is able to create many opportunities to meet at congresses, collaborate on joint scientific documents and offer educational opportunities for young peers worldwide. Towards this aim, the International Affairs committee regularly collaborates with several EHRA committees (Scientific Documents, Education & Certification, Patients and AQIC).

Lastly, in 2023, EHRA participated in joint sessions at several sister and affiliated societies' congresses as well as other international events.

Date	Event	Topic	EHRA representatives
May 2023	HRS 2023 New Orleans (USA)	Controversies in ICD, CRT and CSP therapy indications ICDs in special populations: addressing gaps in the guidelines	C. Leclercq, N. Dagres J. Steffel JL. Merino, G. Hindricks
June 2023	KHRS 2023 Seoul, Korea)	EHRA-KHRS joint session	JL. Merino, G.Y.H. Lip
July 2023	JHRS 2023 Sapporo (Japan)	What to do after AF diagnosis?	JL. Merino A. Porta-Sanchez
September 2023	APHRS 2023 Hong-Kong	Perspectives on Atrial Fibrillation management: anticoagulate	H. Pürerfellner, G.Y.H. Lip
September 2023	AFHRA joint webinar Online	Sport related sudden cardiac death	E. Behr, H. Heidbuchel JL. Merino, J. Tfelt Hansen
September 2023	GW-ICC 2023 Beijing (China)	Cardiac Arrhythmia: Present and Future EUROPACE @ GWICC session	J-C. Deharo, H. Burri L. Di Biase, G. Conte
October 2023	LAHRS 2023 Mexico City (Mexico)	Frontiers in electrophysiology, ablation and device therapy	JL. Merino, C. Leclercq

👤 | National Cardiac Societies



Chairperson

Dr. Michał Farkowski,
Poland



Committee Co-Chairperson

Dr. Daniel Scherr,
Austria



The National Cardiac Societies Committee's activities are driven by **three main objectives:**

- **Strengthen** relations between EHRA and EP National Cardiac Societies (NCS)/ Working Groups (WG) as well as monitor their expectations to facilitate collaboration
- **Encourage** individual members to join EHRA and become more involved in the association
- **Implement** actions and procedures which lead to better networking, such as the traditional EHRA Summit, and joint sessions on EPNCS/WG events

EHRA Summit

The Summit was held on 8 and 9 June 2023 in Madrid, Spain.

42 different countries were represented in the summit. Representatives from all over Europe participated in discussions around Certification and Medical Device Regulation.



Improving Collaboration with our partners

EP Working Group of the moment

This initiative showcases a new EP NCS or EP WG of the EHRA network quarterly. It highlights the efforts and activities these partner organisations are undertaking and promotes the interaction between the various EP NCS/ WG and EHRA.

Countries showcased in 2023



Joint sessions

In 2023, EHRA participated in 16 joint sessions across Europe, at EP NCS/WG national meetings and congresses in the following countries:



❶ | Young Electrophysiologists



Committee Chairperson
Dr. Katarzyna Malacynska-Rajpold
UK





Committee Co-Chairperson
Dr. Martin Manninger,
Austria





The Young EP Network serves electrophysiologists in the early stages of their careers, providing support for their professional development and the expansion of their global professional network. This is achieved by focusing on education, fostering networking opportunities, and enhancing visibility. The Young EP Committee actively engages the young community through a diverse range of projects aligned with these goals.

ECG competition

The 3rd edition of the ECG Competition took place during the congress in Barcelona. Ten national teams composed of 3 excellent ECG readers were challenged live with difficult ECGs during the congress. The session was attended by over **200 people** onsite and had over **120 views online**.

Young EP network

The EHRA Young EP network currently counts over **600 active members**.

Young EP Summit

The event took place 7-8 June in Madrid, Spain, where **30 Young EP from 26 countries attended**. The main speaker of this edition was Andrew Street, Professor at the London School of Economics, who delivered an interesting workshop on the Basics of Health Economics. For the Young EP attending this was also the opportunity to network with other Ambassadors and members of the EHRA Board.



Young Electrophysiologists

Career development

- **EP Insight short visiting programme:** In 2023, four Young EP benefited from this programme.
- **EHRA speed mentoring:** During the EHRA 2023 congress in Barcelona, this activity attracted 27 mentees, offering another opportunity for Young EPs to seek guidance on their career paths from the experience and wisdom of 14 mentors.
Two sessions of group mentoring were introduced this year and were greatly appreciated by the participants.
- **EHRA Young EP panelists list:** Renewed annually with Young EP members endorsed by their national ambassadors as available moderators of congress sessions. Every year several Young EPs from this list are offered to co-chair sessions during the EHRA congress.
- **Library of EP recordings**
Launched mid-2022, this library provides 10-15-min educational videos which focus on performing various types of EP and CP procedures. These are recorded by key opinion leaders and narrated by Young EPs. New videos are added quarterly. Topics added in 2023:

Date	Topic	Operator	Comments
September 2023	Fluoroless ablation of typical AV-nodal reentrant tachycardia	Dr. Georgios Kollias Dr. Martin Manninger	Dr. Georgios Kollias Dr. Martin Manninger
May 2023	2023 EHRA EP pulsed electric field	Prof. Daniel Scherr	Dr. Martin Manninger Prof. Daniel Scherr
February 2023	Point by point radiofrequency pulmonary vein isolation	Prof. Daniel Scherr	Dr. Martin Manninger Prof. Daniel Scherr



Membership Pillar

The EHRA membership offer is tailored to fit the EHRA members' needs, with a special offer for young professionals.

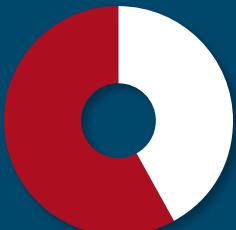
 **4,569 members in 2023**

 **176 FEHRA
2 EFEHRA (emeritus)**

Gender Scale

 Male **72%**
 Female **28%**

Age Scale


Above 40 **2,647 | 58%**
Under 40 **1,922 | 42%**

EHRA Silver Membership can be combined with ESC Professional Membership or another Subspecialty Association Silver Membership. More information: escardio.org/EHRA-membership



Fellowship

Recognising excellence through the Fellowship of EHRA

Annual call for applications
1 August - 15 October

EHRA Members benefits

- **NEW since 1 January 2023:** Discount on Europace Article Processing Charges (APC) Access to EHRA courses on ESC eLearning
- Discount on EHRA congress, educational courses and certification exams
- Unlimited access to EHRA webinars and resources from all EHRA congresses on ESC 365
- Exclusive access to grants, training programmes, EHRA Fellowship (FEHRA), and mentoring opportunities
- Discount of EHRA books, ESC textbooks and handbooks, and publications
- Access to EHRA networking events
- Voting rights and access to EHRA Member Directories

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Contact us: ehra@escardio.org
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