

EAPCI Activity Report

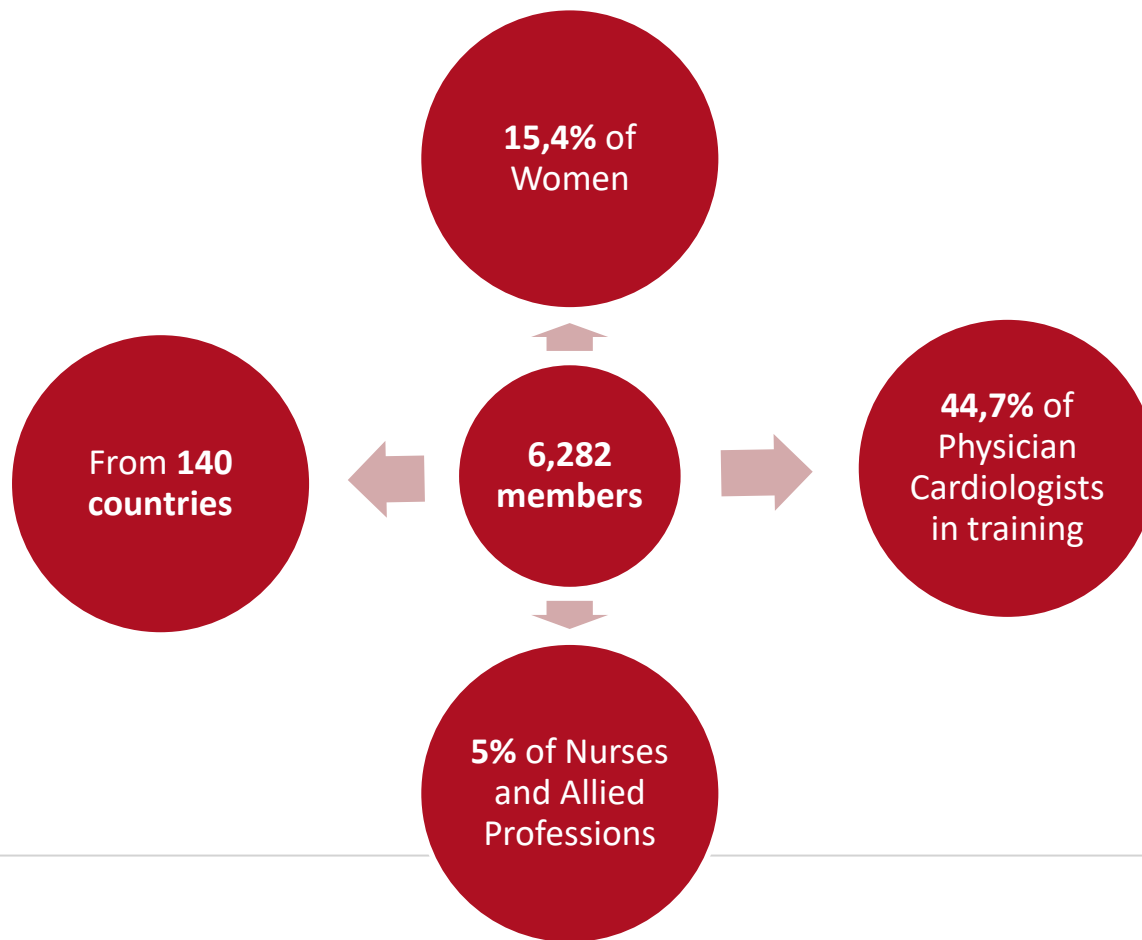
Board May 2020 – May 2021

EAPCI General Assembly, May 2021

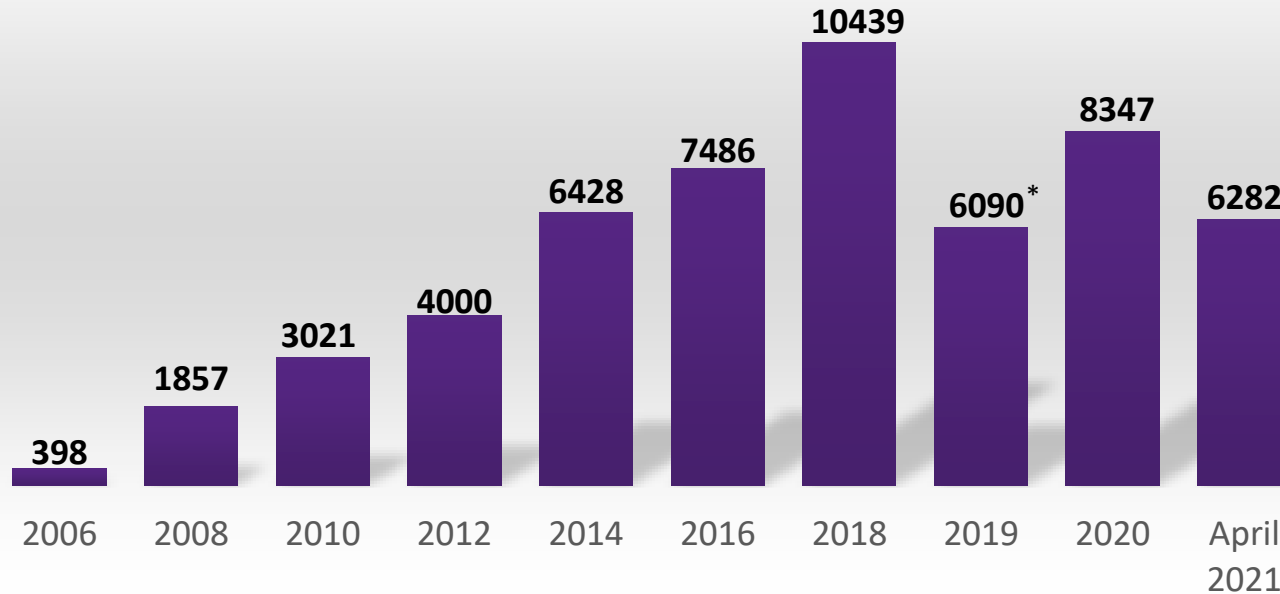
Membership pillar

Activity report

Membership update (30 April 2021)



EAPCI Membership evolution

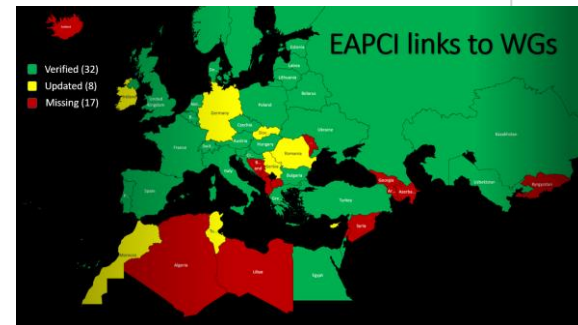


**Members transferred year after year since 2006 – not possible anymore since 2019 on due to GRPD*

International Affairs and Working Groups Networking Committee



- **Update of list of Interventional Working Groups Presidents** - *under completion*
- **Together with the EAPCI Young Committee:**
Appointment of Young National Ambassadors (YNA) – *done*
- **Together with the Training & Certification Committee:**
Implementation of the Country Mutual Recognition Process (CMRP)
with 7 countries (part of certification) – *on-going*
- **EAPCI Surveys & activities dissemination**



Atlas in Interventional Cardiology

- Part of the ESC Atlas in Cardiology initiative
- A **unique compendium** of cardiovascular statistics across the ESC member countries
- A **unique opportunity** to collect quality data providing a reliable source of information on country activity
- In close collaboration with Working Groups from **35 countries**



Atlas in Interventional Cardiology

Mapping interventional cardiology in Europe: the European Association of Percutaneous Cardiovascular Interventions (EAPCI) Atlas Project

Emanuele Barbato^{1*}, Marko Noc², Andreas Baumbach³, Dariusz Dudek⁴, Matjaz Bunc⁵, Emmanouil Sklidis⁶, Adrian Banning⁷, Jacek Legutko⁸, Nils Witt⁹, Manuel Pan¹⁰, Hans-Henrik Tilsted¹¹, Holger Nef¹², Giuseppe Tarantini¹³, Dżianis Kazakiewicz¹⁴, Radu Huculeci¹⁵, Stephane Cook¹⁶, Ahmed Magdy¹⁷, Walter Desmet¹⁸, Guillaume Cayla¹⁹, Dragoș Vinereanu²⁰, Michiel Voskuil²¹, Omer Goktekin²¹, Panos Vardas²², Adam Timmis²³, and Michael Haude²³

¹Department of Advanced Biomedical Sciences, University of Naples Federico II, Via Pansini 5, 80131 Naples, Italy; ²Center for Intensive Internal Medicine, University Medical Center, Ljubljana, Slovenia; ³Queen Mary University of London, Barts Heart Centre, London, UK; ⁴Institute of Cardiology, Jagiellonian University, Kopernika 17, Kraków, Poland; ⁵University Clinical Center Ljubljana, Zaloška c. 8/4, Ljubljana, Slovenia; ⁶Cardiology Department, Herioli University Hospital, Oxford Heart Centre, Oxford University Hospitals, Healdley Way, Oxford OX3 9DU, UK; ⁷Department of Interventional Cardiology, Institute of Cardiology, Jagiellonian University Medical College, John Paul II Hospital, Kraków, Poland; ⁸Department of Clinical Science and Education, Karolinska Institutet, Unit of Cardiology, Södersjukhuset, Stockholm, Sweden; ⁹Karolinska Institutet, Department of Cardiology, University of Gothenburg (SABIC), Spain; ¹⁰Department of Cardiology, Rigshospitalet, University of Copenhagen, Denmark; ¹¹University of Copenhagen, Department of Cardiology and Angiology, Germany; ¹²Interventional Cardiology, Department of Cardiac Thoracic and Vascular Science, University of Padua, Italy; ¹³Turkish Society of Cardiology Health Policy Unit, European Heart Health Institute, European Heart Agency, Brussels, Belgium; ¹⁴Cardiology, University Hospital Fribourg, Switzerland; ¹⁵National Heart Institute, Cairo, Egypt; ¹⁶Department of Cardiovascular Diseases, University Hospital Leuven, and Department of Cardiovascular Sciences, KU Leuven, Leuven, Belgium; ¹⁷Department of Cardiology, University of Montpellier, Nîmes, France; ¹⁸University of Medicine and Pharmacy Carol Davila, University and Emergency Hospital, Bucharest, Romania; ¹⁹Department of Cardiology, University Medical Center Utrecht, The Netherlands; ²⁰Tabatabaie Memorial Hospital, Istanbul, Turkey; ²¹Heart Sector, Högskolan i Gäddede, 5 Erythrou Stavrou Str. 151 23, Marousi, Athens, Greece; and ²²Südliche Kliniken Neuss, Lukas-Krankenhaus GmbH, Neuss, Germany

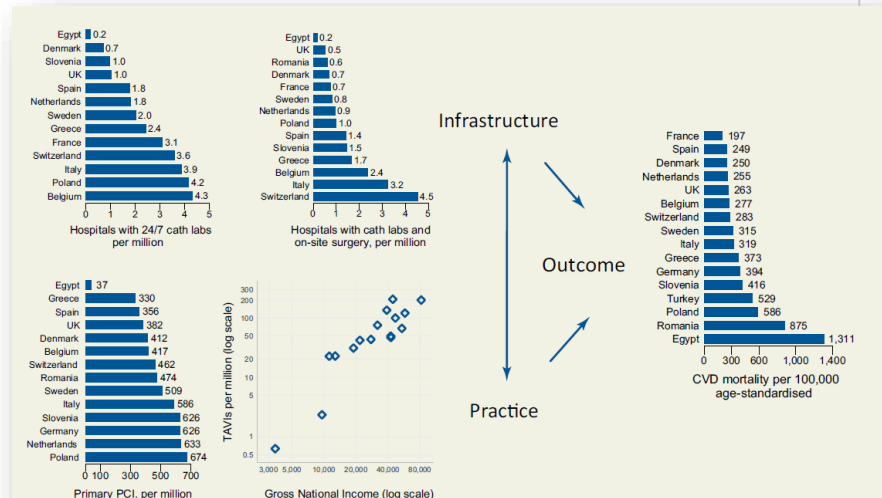
Received 21 January 2020; revised 2 April 2020; editorial decision 15 May 2020; accepted 19 May 2020; online ahead-of-print 25 June 2020

Aims

The European Association of Percutaneous Cardiovascular Interventions (EAPCI) Atlas of Interventional Cardiology has been developed to map interventional practice across European Society of Cardiology (ESC) member countries. Here we present the main findings of a 16-country survey in which we examine the national availability of interventional infrastructure, human resource, and procedure volumes.

Methods and results

Sixteen ESC member countries participated in the EAPCI Atlas survey. Interventional data were collected by the National Cardiac Society of each participating country. An annual median of 5131 [interquartile range (IQR) 4013–5801] diagnostic heart procedures per million people were reported, ranging from <2500 in Egypt and Romania to >7000 in Turkey and Germany. Procedure rates showed significant correlation ($r=0.67$, $P=0.013$) with gross national income (GNI) per capita. An annual median of 2478 (IQR 1690–2633) percutaneous coronary interventions (PCIs) per million people were reported, ranging from <1000 in Egypt and Romania to >3000 in Switzerland, Poland, and Germany. Procedure rates showed significant correlation with GNI per capita ($r=0.62$, $P=0.014$). An annual median of 48.2 (IQR 29.1–105.2) transcatheter aortic valve implantation procedures per million people were performed, varying from <25 per million people in Egypt, Romania, Turkey, and Poland to >100 per million



Example of data Atlas in Interventional Cardiology, 2nd edition

- 1st edition finalized mid-2018 | 16 countries
- 2nd to be released in 2021 | 35 countries
- 98 quantitative and qualitative variables
- 4 sections dedicated to Interventional Cardiology
- **Achievements:**
 - 1st edition scientific publication issued June 2020
 - 2nd edition dataset collected and fully processed



Source: 2nd Edition - Atlas in Interventional Cardiology survey.

Nurses and Allied Professionals (NAP)

Research

- **Survey** on skills mix and job descriptions of NAPs
 - Over 430 responses from over 20 countries
 - Data analysis underway, targeted publication in EJCNC by Q4 2021
- **Consensus paper** “EAPCI Position paper on the care of access sites after percutaneous interventions” in the pipeline

Networking

- Facebook & LinkedIn groups
- Monthly campaign



12 countries
in **12 months**

Discover how professionals just like you work in their own country.

Nurses and Allied Professionals (NAPs) working in the field of interventional cardiology, we're here to support you!

Who are we? The Nurses and Allied Professionals (NAPs) Committee of the European Association of Percutaneous Cardiovascular Interventions (EAPCI).

Nurses and Allied Professionals (NAP)

Education

- PCR episodes unable to be produced, many NAPs too busy with COVID to plan filming and execution of a presentation
- 2021 exam postponed due to COVID to give NAPs a chance to better prepare for next year
- Revision of curriculum planned to align with ESC

New Initiatives For Young Interventionalists EAPCI

- **Young Interventional Survey - under preparation**
 - Content: general information, training fellowship status, training impact on quality of life, training programme expectations, certification process
- **Coaching programme** (collaboration with Women Committee) – **under discussion**
 - **WHAT** – An online one-to-one coaching programme over 12 months for young interventional cardiologists
 - **WHY** – Foster personal development of fellows in interventional cardiology, including research and interventional skills.
 - **WHO** – Young interventional cardiologists who are EAPCI members.

Initiatives For Young Interventionalists

- **Young National Ambassadors (2021-2022)** appointment close to completion
- **CathGo Programme**
 - Evaluation of current tool and database
 - On-going: review of training centres list & next steps decision
- **Education**
 - Contribution to EAPCI webinars catalogue & sessions for ESC Congress 2021
- **Digital network & social media**
 - Internal training on Social Media Good Practice
 - Promotion on LinkedIn and Twitter
 - Collaboration – PCI bulletins & EAPCI Newsletters

Position papers

- How to overcome professional barriers encountered by female in interventional cardiology - **approved**
- Decision making around the use of antithrombotic drugs for ACS and PCI according to patient sex - **planned (not confirmed)**
- Radiation Exposure and Safety Catheterization Laboratories for Healthcare Providers during Pregnancy in collaboration with EHRA, EACVI and the ESC Regulatory Affairs Committee - **in progress**

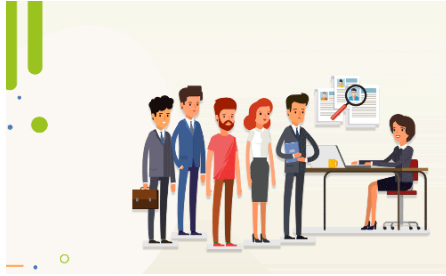
Projects

- EAPCI Webinars (in the pipeline)
- Coaching program in collaboration with EAPCI Young Committee (NIFYI)

Education pillar

Activity report

2021 EAPCI Fellowship Grants Committee



N = 71 Complete Applications



N = 7 grants expected*



N = 26 Institutions

** Pending contractual matters*

2021 EAPCI Fellowship Grants Committee



Committee Evaluation of Applicants



Application Ranking*

Committee Chair Evaluation of Institutions



Institution Ranking



Committee Discussion



Link 7 Applicants to 7 Institutions by end of May

* CRITERIA

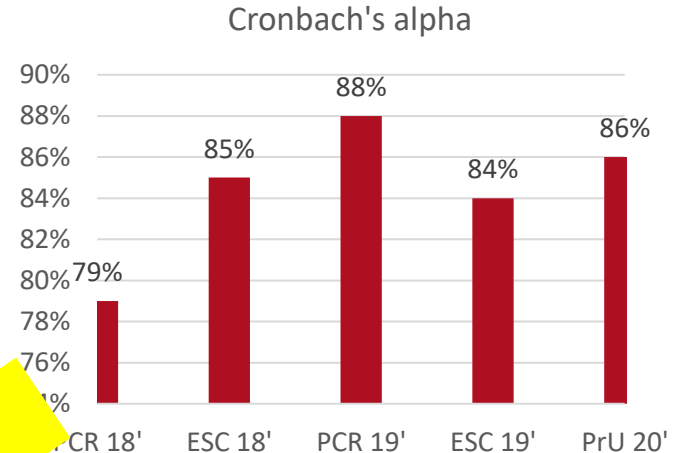
- Motivation
- Basic skillset
- Purpose of the grant
- Future career potentials & benefits if grant received
- Compatibility between fellow and potential receiving center

Training and Certification Committee

- **Certification part A exam**
 - MCQ database status n=1510, 498 delivered since May 2020
 - Candidates 2018-2020: 193

Exam date	n	Final pass mark	Final pass rate
PCR'18	31	73/100	74%
ESC'18	24	70/100	50%
PCR'19	50	71/100	74%
ESC'19	34	66/99	76%
December 2020 (online)	53	68/99	52%

2018-19: 34 (avg)
2020: 53 (56% ↑)



-

Training and Certification Committee

- **EAPCI Webinars Serie (Part A Training & Certification)**
 - 5 modular webinar related to the main exam topics (coronary diagnostic & intervention, SHD, peripheral)
- **EAPCI Core Curriculum in SHD**
 - Proof of professional excellence for patients and a way to enhance good cardiovascular percutaneous practice
 - 50 Members Task Force
- **EAPCI Survey**

To detect of hurdles in training and certification in ESC allied countries, in coordination with EAPCI Scientific Documents & Initiatives Committee.

Congress pillar

Activity report

EuroPCR & PCR London Valves 2020



PCR
e-Course

PCR e-Course

Interactive Education & Innovation in Interventional
Cardiovascular Medicine

25-27 JUN 2020

#PCReCourse

15,000+ people signed up by 27 June

Official EAPCI annual course
EuroPCR 2020, EAPCI-PCR Fellows
Course & PCR London Valves 2020
cancelled due to COVID-19



Scientific Programme and Congresses Committee

What has been done ?

- New, very active Congress Committee
- **Main activity** – extensive work in preparation of highly ranked proposals of sessions, lectures, workshops for annual ESC Congress based on Core Curriculum for interventional cardiologists
- Active role in preparation of proposals of EAPCI Webinars and in the preparation of new format of EuroPCR 2021 for some Committee Members
- Joint EAPCI sessions with other societies – great success of EAPCI sessions during Great Wall of China Interventional Congress (October 2020)

Scientific Programme and Congress Committee

What is in the pipeline ?

- **Active promotion** of new innovative and practical sessions associated with live-case or live-in-a-box presentation prepared by interventional cardiologist for (or together with) non-invasive cardiologist covering different aspects of coronary, peripheral and structural interventions for next ESC annual congresses
- An attempt to **create joint sessions of EAPCI with other ESC Associations, Working Groups and Councils** and present them not only during main ESC Congress but also other meetings organized by ESC
- **Supporting and promoting of highly motivated interventional cardiologists** not visible before, women invasive cardiologist and young European interventional cardiologists in their activities within ESC and EuroPCR

Research pillar

Activity report

Databases & Registries Committee

- **EuroHeart**
 - ACS PCI: data standards endorsed by EAPCI
 - TAVI : EAPCI was invited to take part in the development of the TAVI data standards (appointment on-going of 15-20 experts)

EAPCI Scientific Documents & Initiatives Committee (SDAIC)

- 1. Reappraisal and update of Standard Operating Procedure (SOP)**
- 2. Two scientific paper proposals already approved by ESC Clinical Practice Guidelines Committee (CPG)**
 - “Invasive physiology-guided percutaneous coronary intervention according to hyperaemic and resting indexes in stable and unstable presentations. A position paper from EAPCI”.
 - “High risk percutaneous coronary intervention in patients with reduced left ventricular ejection fraction refused for surgical revascularization. A position paper from EAPCI”
- 3. 2 other scientific paper proposals already approved by EAPCI Executive Committee and submitted to CPG (waiting for revision)**

About percutaneous coronary intervention and structural heart disease

General Figures



200 427
Page Views



66 671
Sessions



26,73 %
% New Sessions



28 221
Unique users



17 820
New Users



26 149
Total PPT Dwnl.



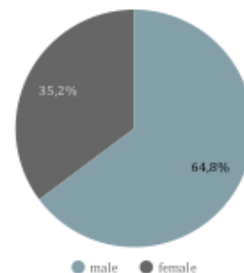
00:04:23
Av. Time by session



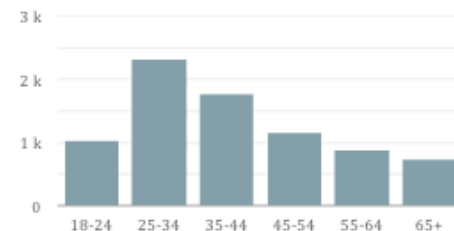
THE PCR - EAPCI
TEXTBOOK



Gender



Age



Top 5 visitors countries

Countries	Users
1. India	3 077
2. Italy	1 925
3. United States	1 885
4. Germany	1 781
5. Mexico	1 690



96 731 people reached
4 325 engagements



396 898 impressions
38 748 engagements



40 522 accounts reached
2 148 interactions

2020 Editorial Publication

➤ 2 New & 21 Updated Chapters

New content:

- [Fluoroscopic anatomy of the Heart](#)
[Fluoroscopic anatomy of the Heart](#)

By Jeremy Ben-Shoshan, Nicolo Piazza, Pascal Thériault-Lauzier, Michele Pighi

- [Large animal models for the interventional cardiologist: a comparative anatomy, imaging, histopathology and regulatory perspective](#)

By Nicolas Borenstein, Luc Behr, Alexis Morlet, Olivier Chevènement, Robert Kieval, Angélique Ente, Laure Jetté



THE PCR - EAPCI
TEXTBOOK

All new and updated content available at
www.pcrtextbook.com

2021 Editorial Publication

- 6 New & 12 Updated Chapters



New content:

[Hybrid approach to CTO intervention](#) - Emmanouil S. Brilakis, Lorenzo Azzalini, Dimitri Karpaliotis, William Nicholson, Stephane Rinfret

[Spontaneous Coronary Artery Dissection](#) – David Adlam, Fernando Alfonso, Angela Maas, Alexandre Persu, Christiaan Vrints

[Ischemia and Myocardial infarction without obstructive coronary artery disease](#) - Alaide Chieffo, Valeria Paradies, Alessandro Beneduce, Javier Escaned

[Transcatheter aortic valve implantation](#) - Taishi Okuno, Daijiro Tomii, Thomas Pilgrim, Stephan Windecker

[Robots in interventional practice](#) – Paul Ong, Fahim Jafary, Deborah Lee

[The COVID pandemic and interventional practice](#) - Jose Tafur Soto, Christopher J. White

Due in the second half of the year on the occasion of the **ESC congress** and all **upcoming PCR courses**:

- **2 New & 16 Updated Chapters** and **numerous Addendum sections**

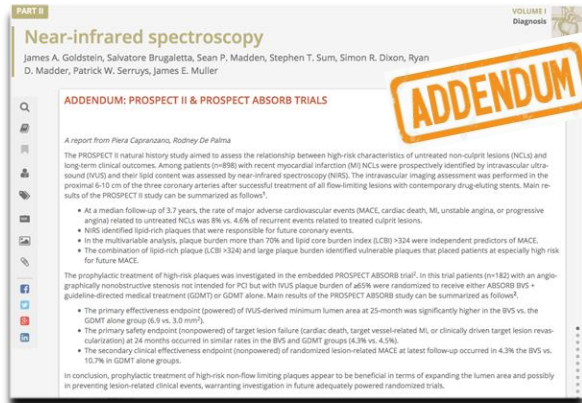
The PCR-EAPCI Textbook - Ongoing initiatives

✓ Addendum section

Latest news box including trials, guidelines, consensus, new techniques and practical suggestions

Ischemia Trial in the chapter on [Interventions for stable coronary disease](#)

PROSPECT II & PROSPECT ABSORB trials in the chapter on [Near-infrared spectroscopy](#)

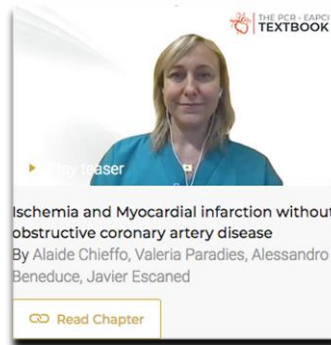


✓ Video summary

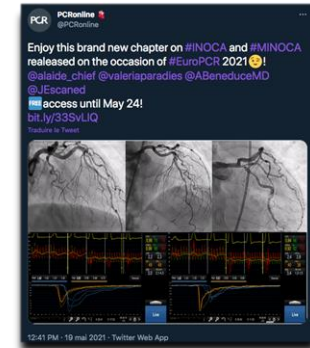
For brand new chapters, a short video of the main author describing his/her chapter

➤ See Publications Page on [EuroPCR Platform](#)

Also available on **PCR YouTube** channel and social networks

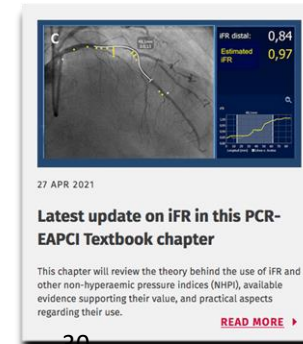


✓ Increased promotion actions on social networks



✓ Cross-linking of content

Chapters linked to PCRonline website topics



✓ Integration of supplementary data

- Illustrative cases linked to Chapter on [Ethics](#)
- Coming soon: Clinical cases added to the chapter on [The role of imaging in CTO intervention](#)

Advocacy pillar

Activity report

- **Videos:**
 - 3 information videos explaining coronary angiography, angioplasty and TAVI produced.
 - Available in English, French, German, Italian and Spanish)
 - *EAPCI members benefit.*
- **Patient Reported Outcome Measure questionnaire** under development with 6 domains assessing general wellbeing, exercise tolerance, worries, ability to cope, barriers to normal living, perceived support from the health care system and family/friends.

Angiography Angioplasty

English version



Patients Initiatives Committee

- **New EAPCI Patient Reported Experience Measurement (PREM) Tool: PATCATH**
 - Now launching
 - Available in 10 languages: Danish, Dutch, English, French, German, Italian, Polish, Portuguese, Spanish, Swedish.
 - Will be made available on EAPCI website
- **EAPCI Informed Consent Survey**
 - Online survey under finalisation
 - Aim: assess quality of informed consent practice in interventional cardiology
 - Potential Output: Identify geographic differences in practice, design tools or guidelines to improve consenting practice and patient experience

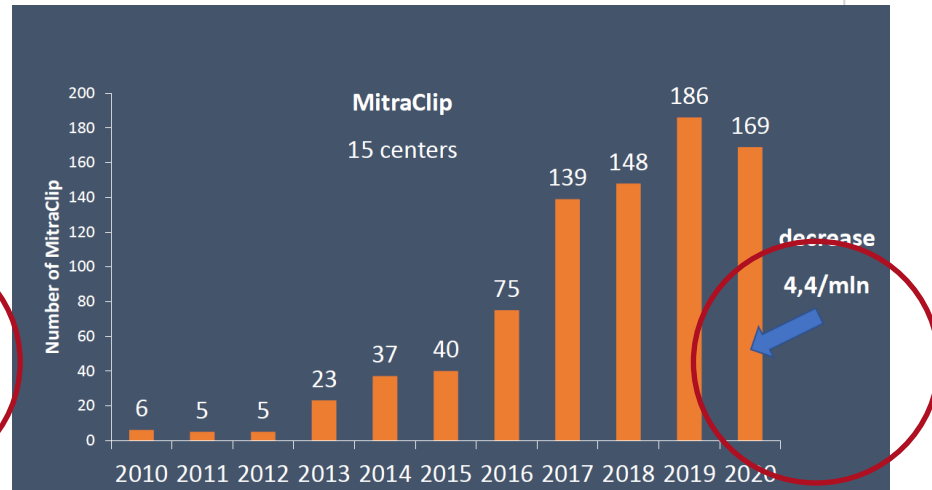
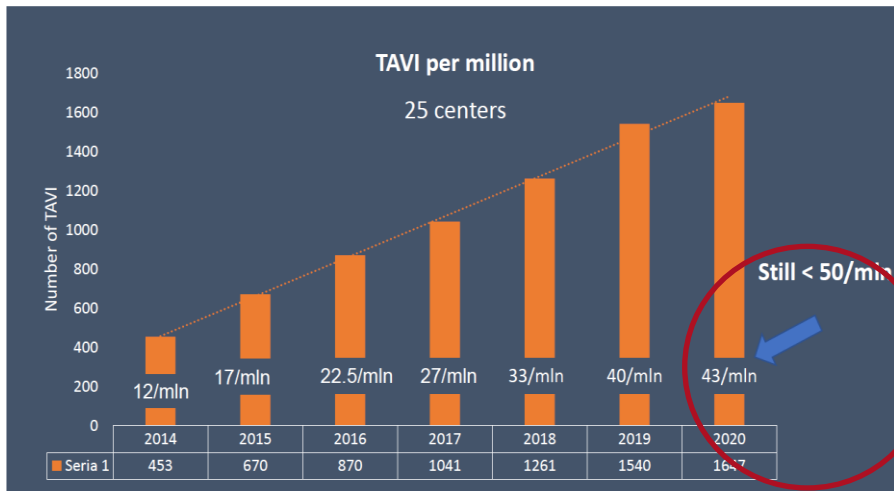


Valve for Life Initiative (VFL)

- **Mission:** improve the awareness for the access to and the outcome of transcatheter valve interventions across Europe, thereby ensuring better treatment of patients with symptomatic aortic as well as for mitral valve disease.
- **3 pilot countries enrolled:** Poland, Portugal and United Kingdom since January 2020. France achieved its objectives by end 2019.



Valve-for-Life Poland (2020-2021)



Practically no access to transcatheter tricuspid repair (<20 cases)

> Pol Arch Intern Med. 2021 Mar 19. doi: 10.20452/pamw.15887. Online ahead of print.

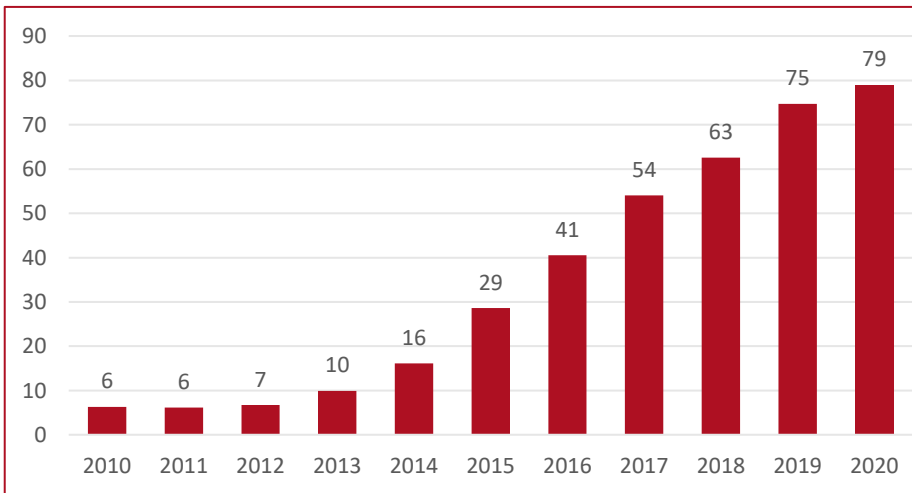
The Polish Interventional Cardiology TAVI Survey (PICTS): 10 years of transcatheter aortic valve implantation in Poland. The landscape after the first stage of Valve for Life initiative



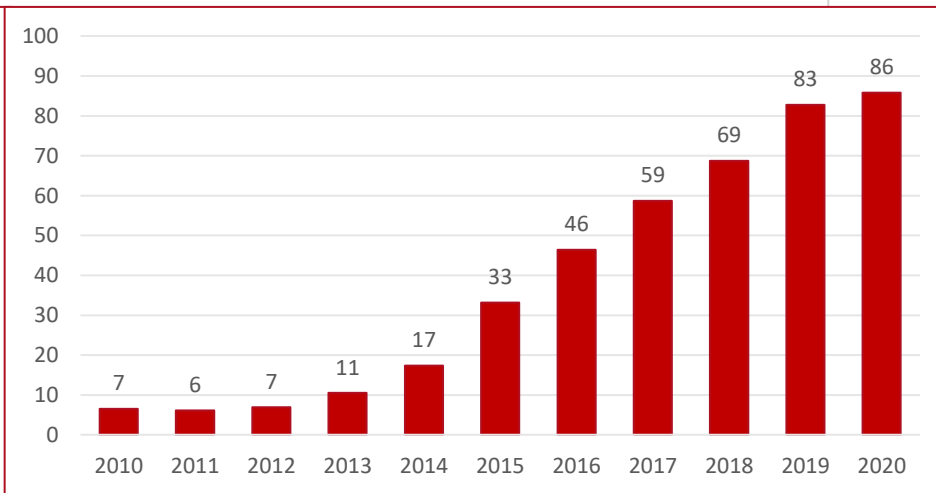
**Still
needed!**



Valve for Life Portugal



TAVI per million population



Valvular Procedures per million population

Valve for Life UK

- New joiner since 2020. Team established with members in every UK TAVI Centre
- Collaborations established with All-Party Parliamentary Group for Heart Valve Disease, NHS England, Heart Valve Voice Patient Charity, Professional Societies
- Public affairs agency appointed
- Media campaign initiated with 5 published articles + social media (Twitter, LinkedIn)
- Website www.valveforlife.co.uk with patient, clinician, & educational resources
- Analysis of geographical inequity of access to TAVI published
- UK VFL overview scientific paper published (Ali et al, OpenHeart 2021 March 8)
- Fast-track 8-week pathway for TAVI & SAVR developed for planned roll-out across the NHS
- Recommendations developed & published for optimal TAVI pathway & procedure, including benchmarking
- Detailed Rebuttal to NICE Draft Guidelines produced, with co-ordination of responses from all UK TAVI centres and relevant professional bodies

Quality Improvement Committee Goals 20-22

- **Position paper on “Occupational Health Hazards in the Catheterization and Electrophysiology Laboratory”**
 - A joint document with EHRA
- **Design standard operating procedure (SOP) for specific processes in the cath lab:**
 - Pre-procedural protocol
 - Allergies management (Iodine, aspirin etc.)
 - Specific procedural safety protocol

Innovations and Digital Cardiology Committee

- Survey about the definition of complex PCI (in progress)
- Opportunity to contribute to the ESC Digital Health Summit (22-24 October 2021)
- In progress a point-of-view/review document(s) onto:
 - Advanced imaging in interventional cardiology using Virtual Reality
 - Robotics
- A state-of-the-art review of interventional cardiology including AI and robotics is now in production by Eurointervention (lead author Prof. Beyar).