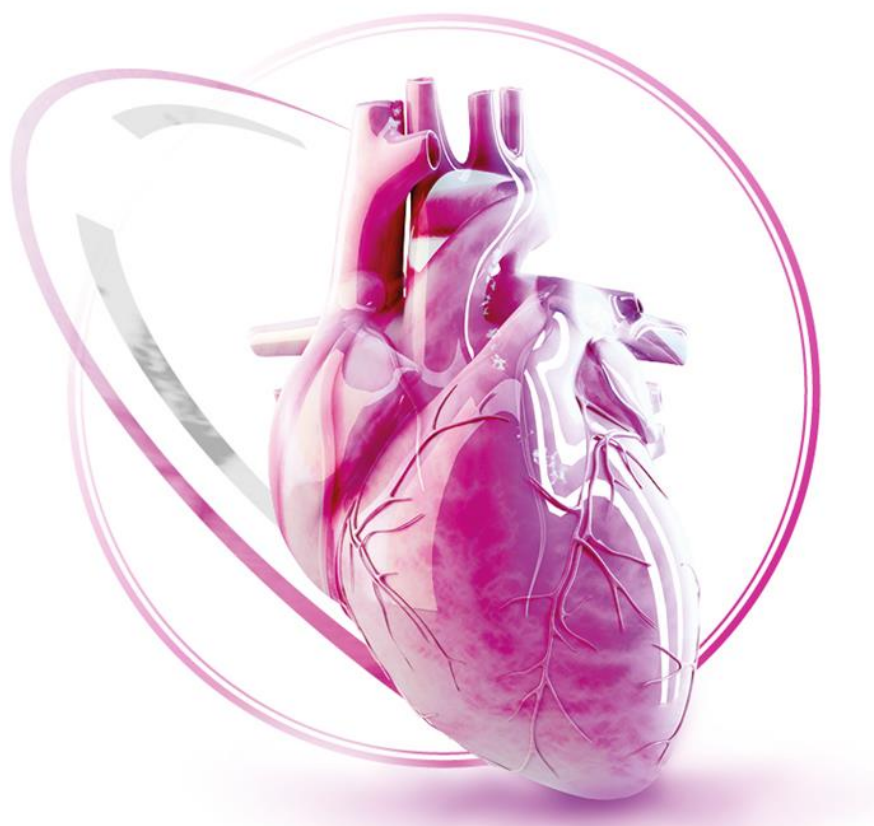




EACVI
European Association of
Cardiovascular Imaging

EuroEcho 2019

THE LEADING ECHOCARDIOGRAPHY CONGRESS



POST-CONGRESS REPORT

4-7 | **Vienna**
December | AUSTRIA

23rd Annual Congress
of the EACVI
www.escardio.org/EACVI



ESC
European Society
of Cardiology

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1. General Information

1.1 Introduction

EuroEcho is the annual congress of the European Association of Cardiovascular Imaging (EACVI). EuroEcho- 2019 was held in Vienna, Austria at the Messe Wien Exhibition Congress Centre and was the 23rd edition of this annual congress.

EuroEcho 2019

THE LEADING ECHOCARDIOGRAPHY CONGRESS

Cardiomyopathies and Imaging in Acute Cardiac Care

Quick Facts & Figures



4092 Participants
3500 Delegates
400 Exhibitors



112 Countries
represented



412 Faculty
members



274 Scientific Programme sessions
233 Pre-arranged sessions
49 Abstract-based Sessions
7 Lecture rooms + **1** Agora + **2** TOE Rooms
18 Poster sessions
4 Practical Tutorials



1105 abstracts
372 clinical cases
966 abstracts accepted



53 Industry sponsored sessions
7 Satellite Symposia
46 Practical Tutorials



Exhibition
485 m² stand space including:
21 exhibiting companies

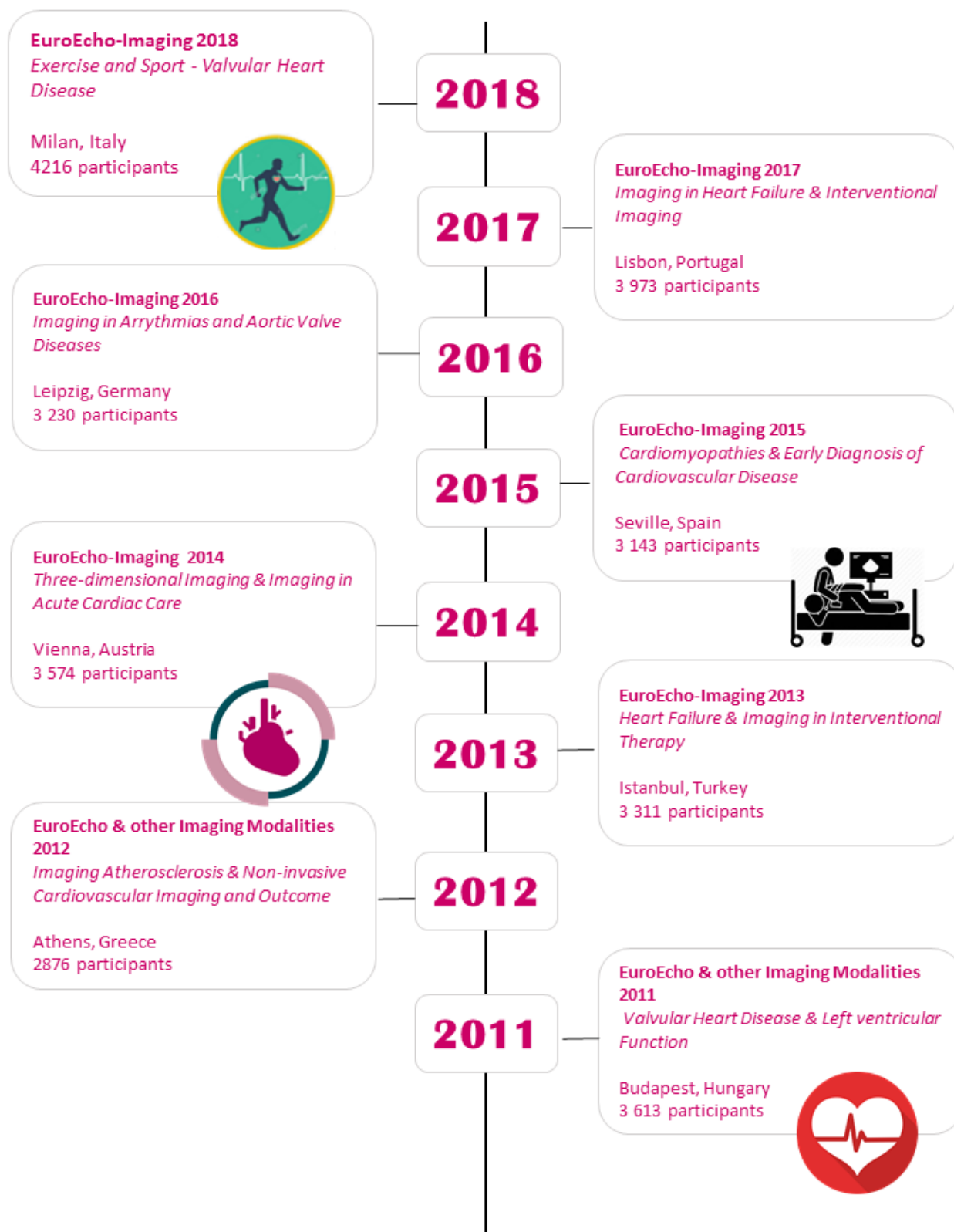


21 CME credits from
UEMS



3 Certifications exams
30 Educational grants
2 days of speed mentoring
5 sessions of level 1
Echocardiography

1.2 History



1.3 EACVI Board & Scientific Programme Committee List



EACVI President
Prof. Thor Edvardsen
(Oslo, Norway)
2018-2020



EACVI President-Elect
Prof. Bernard Cosyns
(Brussels, Belgium)

Executive Board

- President: Prof Thor Edvardsen (Norway)
- President-Elect: Prof Bernard Cosyns (Belgium)
- Past-President: Prof Bogdan A. Popescu (Romania)
- Secretary: Prof Giovanni Di Salvo (UK)
- Treasurer: Prof Erwan Donal (France)
- Vice-President / CMR Section Chair: Prof Steffen Petersen (UK)
- Vice-President / Echo Section Chair: Dr Maurizio Galderisi (Italy)
- Vice-President / Nuclear C & CCT Section Chair: Dr Alessia Gimelli (Italy)

Board members

Councillors - Echo

- Dr Kristina Haugaa (Norway)
- Dr Denisa Muraru (Italy)

Councillors - CMR

- Prof Ana Almeida (Portugal)
- Prof Jeanette Schulz-Menger (Germany)

Councillors - Nuclear C & CCT

- Dr Mark Dweck (UK)
- Dr Gianluca Pontone (Italy)

Vice Presidents-Elect

- Prof Leyla Elif Sade (Turkey), Vice President-Elect / Echo Section
- Prof Bernhard Gerber (Belgium), Vice President-Elect / CMR Section Chair
- Assoc Prof Pal Maurovich-Horvat (Hungary), Vice President-Elect / Nuc C & CCT Section

Ex officio

- Editor-in-Chief of European Heart Journal - Cardiovascular Imaging: Prof Gerald Maurer (Austria)
- Dr Tara Bharucha (UK)
- Dr Matteo Cameli (Italy)
- Dr Julien Magne (France)
- Dr Mark Westwood (UK)
- Mrs Isabel Bardinet, ESC Chief Executive Officer

1.4 The Venue

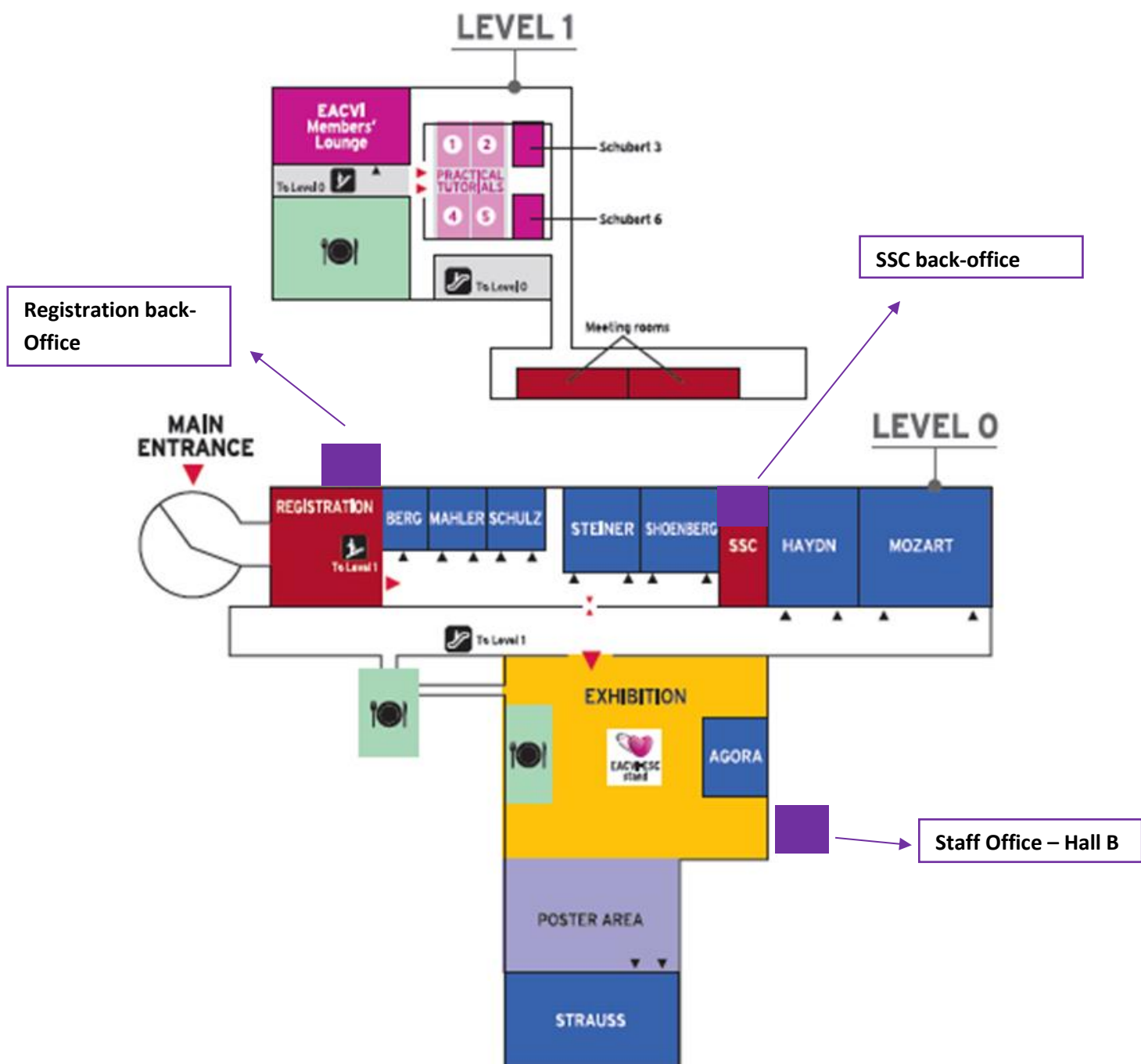
Messe Wein Exhibition Congress Center

📍 Messeplatz 1, 1021 Vienna, Austria



EuroEcho 2019

Building Overview & Layout



Lecture rooms	Order	Capacity (pax)
Mozart	1	840
Strauss	2	500
Haydn	3	400
SHOENBERG	4	350
Steiner	5	300
Schulz	6	190
Mahler	7	190

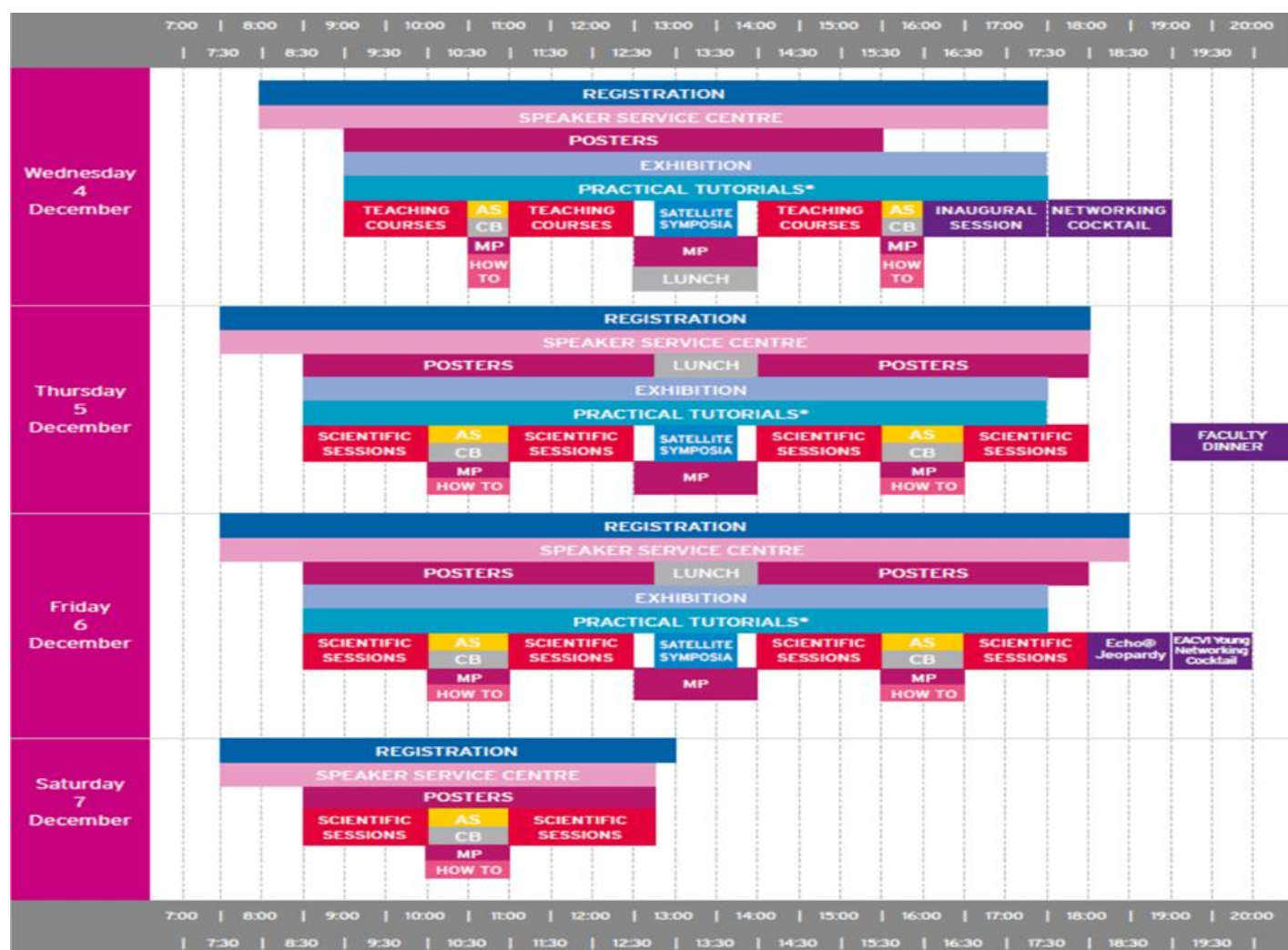
- **Exam room:**

Level 1 Track room was located in the Schubert lecture room

- **Meeting rooms:**

- 1 EACVI Members Lounge
- 2 EACVI Meeting rooms
- 1 EACVI President office
- ESC Industry Relations

1.5 Schedule



2. Scientific Programme

2.1 Overview

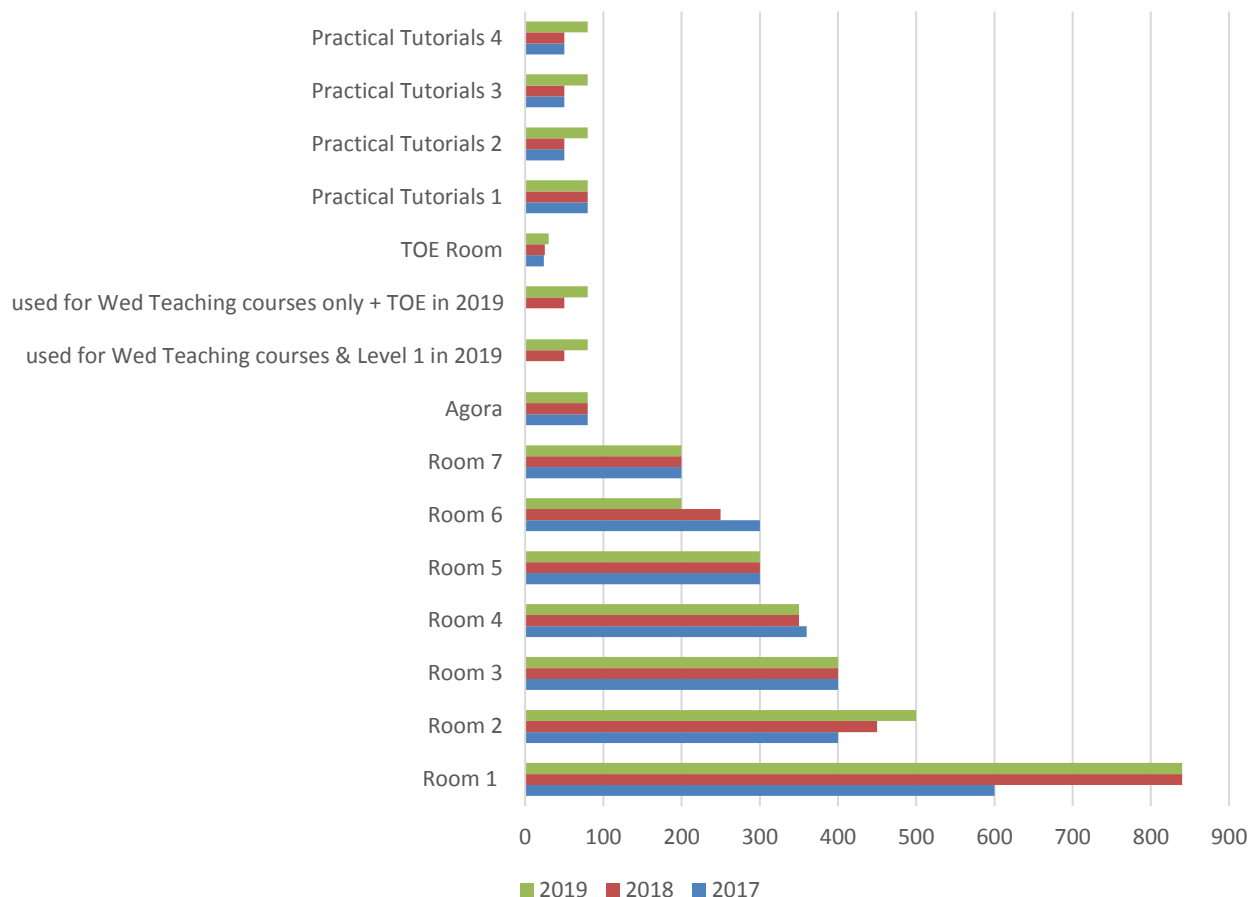
- 7 Lecture rooms + Agora + 2 TOE Rooms (the room Schubert 3 used for Teaching Courses on Wednesday 4th December & Berg)
- 1 Level 1 room (Schubert 6 used for Teaching Course on Wednesday 4th December)
- 1 Poster area
- 4 Practical Tutorials rooms

- **Lecture room capacity – Comparison 2017 to 2019**

Room Names	2017	2018	2019
Room 1	600	840	840
Room 2	400	450	500
Room 3	400	400	400
Room 4	360	350	350
Room 5	300	300	300
Room 6	300	250	200
Room 7	200	200	200
Agora	80	80	80
used for Wed Teaching courses & Level 1 in 2019		50	80
used for Wed Teaching courses only + TOE in 2019		50	80
TOE Room	24	25	30
Practical Tutorials 1	80*	80	80
Practical Tutorials 2	50*	50	80
Practical Tutorials 3	50*	50	80
Practical Tutorials 4	50*	50	80

**In 2017 Practical Tutorial was named Imaging Campus*

Room capacity comparison 2017 to 2019



233 Sessions in TOTAL

- 113 Scientific and Educational Sessions**

Type	Total
Case-based Session	1
Clinical Seminar	8
Debate Session	5
How-to Session	7
Main Session	8
Meet the Experts	1
Symposium	29
Teaching Course	41
Special Session	11
Special Event	2
Grand Total	113

- 18 Workshops**

- 53 Industry Sessions**

Type	Total
Practical Tutorials	46
Satellite Symposium	7
Grand Total	53

- **49 Abstract Based Sessions**

Type	Total
Clinical Case Moderated Posters incl.1 HIT	7
Clinical Case Posters incl.3 HIT	9
Clinical Cases	3
Late Breaking Science session	1
Moderated Posters incl.1 HIT	9
Poster Session incl.3 HIT	9
Rapid Fire Abstracts	9
Young Investigator Award Abstracts	2
Grand Total	49

- **Abstracts - Scientific submissions – Call for science**

991 abstracts submitted

861 abstracts accepted (86,88% acceptance)

648 clinical cases submitted

480 clinical cases accepted (74% acceptance)

10 Late-Breaking Science Submissions

3 accepted in oral sessions (30% acceptance) + 2 accepted outside the regular submission

- **New this year**

- 1 Late breaking science session

Special initiatives this year:

- level 1 sessions (5 sessions)

Voting sessions as last year

Voting option was available in 1 room: Strauss. Voting is available through the mobile app application for the specific sessions.

- **Number of Contributors in the Programme: 1243**

- With breakdown
 - Faculty: 405
 - Presenters: 856

2.2 Faculty

405 Faculty members (excluding Poster Presenters and Industry)

832 Faculty roles

- **276** Chairpersons
- **481** Speakers
- **8** Judges
- **67** Discussants

● Faculty overview

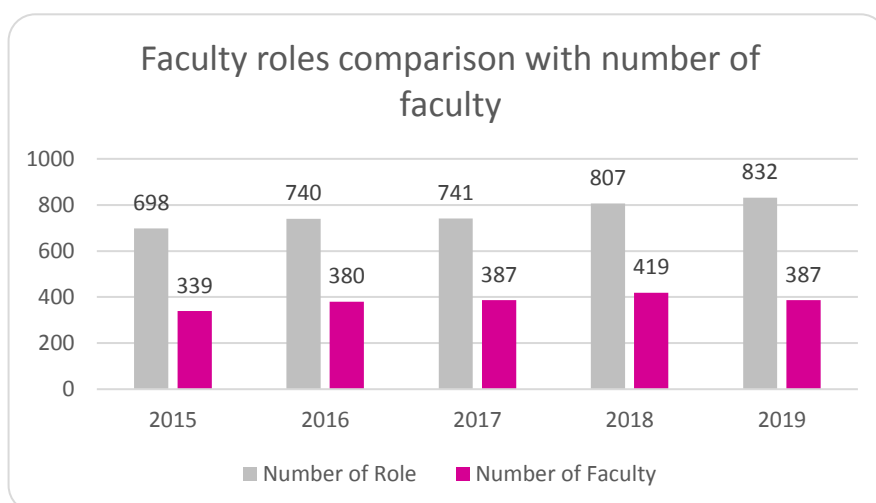
	2015	2016	2017	2018	2019
Total number of Faculty	339	380	387	419	405
Total number of Roles	698	740	741	807	804

● Faculty roles

Faculty number of Roles	2015	2016	2017	2018	2019	Variance 2018/2019
	SEVILLE	LEIPZIG	LISBON	MILAN	VIENNA	
Chairperson	234	241	255	268	276	8
Speaker	408	443	435	473	481	8
Judges	8	8	10	8	8	0
Discussant	48	48	41	58	67	9
Role Total	698 roles - 339 persons 48,5%	740 roles - 380 persons 51,3%	741 roles - 387 persons 52,2%	807 roles	832 roles	25
Faculty total	339 persons 48,5%	380 persons 51,3%	387 persons 52,2%	419 persons 51,9%	387 Persons 46,5%	-32

● Number of Faculty

387 Faculty Members (excluding poster Presenters and Industry)

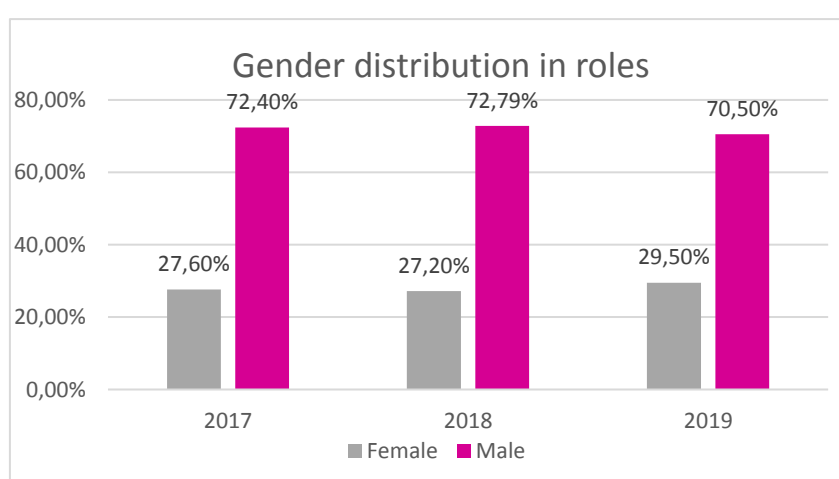


- Roles per faculty

EE Role distribution per faculty	2015	2016	2017	2018	2019
1	156	201	215	237	197
2	99	86	83	96	81
3	43	56	43	39	48
4	17	13	22	20	31
5	10	12	11	5	10
6	6	5	7	11	7
7	4	3	3	4	4
8	3	1	2	4	3
9	1	2	1	1	2
10	0	1	0	1	3
11	0	0	0	1	0
13	0	0	0	0	1
Grand Total	339	380	387	419	387

- Gender representation

	2017		2018		2019	
Gender	Total	%	Total	%	Total	%
Female	107	27,60%	114	27,20%	114	29,50%
Male	280	72,40%	305	72,79%	273	70,50%
Grand Total	387	100%	419	100%	387	100%



- Age Table

Age Range	FACULTY COUNT	
Age	Break	
35 and under Count	34	8,80%
36 to 40	55	14,30%
41 to 46	64	16,50%
47 to 57	129	33,30%
58 to 68	93	24,00%
69 and above	12	3,10%
Total	387	100,00%

- Region

Faculty by Region	2014	2015	2016	2017	2018	2019	Variance 2018/2019
ESC	258	272	296	304	326	293	-33
North America	52	48	58	55	54	52	-2
Asia Pacific	35	19	22	22	30	29	-1
Africa (non ESC)	0	0	0	0	0	1	1
South & Central America	3	0	4	6	9	12	3
Total	348	339	380	387	419	387	-32

- Country (faculty + roles) by order of country representation

	Persons	Roles	Persons	Roles	Persons	Roles	Variance per Person 2018/2019	Variance per Role 2018/2019
COUNTRY	2017	2017	2018	2018	2019	2019		
Argentina	3	3	4	5	6	8	2	3
Armenia	1	1	1	2			-1	-2
Australia	2	5	4	16	6	14	2	-2
Austria	5	9	5	7	13	28	8	21
Belarus					1	3	1	3
Belgium	15	40	26	60	30	68	4	8
Brazil	3	4	5	8	6	11	1	3
Bulgaria	3	4	4	4	3	8	-1	4
Canada	12	24	14	20	10	18	-4	-2
China	1	1	1	1	1	1	0	0
Croatia	2	4	3	5	4	9	1	4
Cyprus	2	2	1	1	1	5	0	4
Czech Republic	1	1	2	3			-2	-3
Czechia					4	6	4	6
Denmark	2	2	4	4	5	8	1	4
Egypt	3	7	1	2	1	1	0	-1
Finland	1	4	2	2	1	4	-1	2

	Persons	Roles	Persons	Roles	Persons	Roles	Variance per Person 2018/2019	Variance per Role 2018/2019
France	23	44	29	61	23	57	-6	-4
Germany	17	31	16	31	8	20	-8	-11
Greece	15	22	9	14	6	8	-3	-6
Hong Kong					2	2	2	2
Hungary	5	10	4	14	4	4	0	-10
India	2	3	4	4	2	4	-2	0
Ireland	2	3	2	2	1	1	-1	-1
Israel	4	4	4	7	3	4	-1	-3
Italy	49	97	69	148	59	141	-10	-7
Japan	6	11	10	12	8	8	-2	-4
Korea (Republic of)	4	8	7	7	6	6	-1	-1
Kosovo Republic of					1	2	1	2
Lebanon			1	1	1	1	0	0
Lithuania			1	1	1	2	0	1
Mexico	2	2					0	0
Netherlands (The)	18	43	22	45	16	36	-6	-9
Norway	9	20	8	27	12	33	4	6
Philippines	1	1					0	0
Poland	7	12	9	15	8	13	-1	-2
Portugal	27	47	4	12	5	15	1	3
Qatar			1	3			-1	-3
Romania	14	29	13	29	9	23	-4	-6
Russian Federation	1	1	1	1			-1	-1
Saudi Arabia	4	6	3	3	4	4	1	1
Serbia	3	7	3	7	4	18	1	11
Slovenia	1	1	1	2	2	3	1	1
South Africa					1	1	1	1
Spain	10	23	12	18	8	18	-4	0
Sweden	5	10	4	9	5	10	1	1
Switzerland	9	24	10	17	7	12	-3	-5
Thailand	1	1					0	0
Tunisia	1	1	1	1			-1	-1
Turkey	6	9	3	8	6	14	3	6
United Arab Emirates	1	1					0	0
United Kingdom of Great Britain & Northern Ireland	43	80	51	93	41	89	-10	-4
United States Minor Outlying Islands			1	2			-1	-2
United States of America	41	79	39	73	42	91	3	18
Grand Total	387	741	419	807	387	832	-32	25

● Return rate

387 Faculty Members in 2019 - Return rate faculty in 2019 compared to previous year: 225 faculty (58.1%)

Return faculty rate compared to combined faculty list from 2 previous editions 2017-2019: 257 faculty (66%)

Faculty who presented at least one year in the 2 last editions

2.3 Scientific and educational programme

- General overview table

EuroEcho	Type	2015 Seville	2016 Leipzig	2017 Lisbon	2018 Milan	Vienna 2019	Comp. 2018/2019
Abstract-based programme	LateBreaking Science	0	0	0	0	1	1
	Moderated Posters	7	7	12	0	0	0
	Moderated ePosters	0	0	0	16	16	0
	Poster Session	9	13	15	18	18	0
	Clinical Cases	7	8	4	4	3	-1
	Rapid Fire Abstract / Oral Session	8	7	8	8	9	1
	Young Investigators Awards Abstracts	2	2	2	2	2	0
	Total abstract sessions	33	37	41	48	49	1
Scientific and Educational programme	Clinical Seminar	10	10	8	8	8	0
	Debate Session	3	4	4	4	5	1
	How-to Session	6	7	7	7	7	0
	Main session	8	8	8	8	8	0
	Meet the expert	0	0	1	1	1	0
	Special Event	2	2	2	2	2	0
	Special Session	4	8	7	10	11	1
	Symposium	31	28	34	33	29	-4
	Teaching Courses	34	34	36	36	41	5
	Imaging Campus EACVI	12	12	4	0	0	0
	Workshop	N/A	N/A	10	10	18	8
	Case-Based session	0	0	0	0	1	1
	Total pre-arranged sessions	110	113	121	119	131	12

- Details of special sessions + project description/ Learning objectives etc...

- **3 Hightech corner sessions:** 2019 trends and new technologies in echocardiography
- **Echo@Jeopardy:** Cardiovascular imaging quiz where 3 expert teams are competing.
- **The research in imaging in the world - ASE and JSE YIA Winners:** The 2019 Young Investigator Awardees from US (American Society of EchocardiographyASE) and Japan (Japanese Society of EchocardiographyJSE) have presented their winning research.
- **Interactive Cardiac Imaging Quiz:** the most challenging cases from everyday clinical practice.

- Sessions by topic (Excluding 2 Special Events, Industry sessions and Abstract sessions)

Topic	# sessions
3 - Imaging	2
3.1 - Echocardiography	3
3.1.1 - Echocardiography: Technology	4
3.1.2 - Echocardiography: Dimensions, Volumes and Mass	1
3.1.3 - Echocardiography: Systolic and Diastolic Function	7
3.1.4 - Echocardiography: Valve Disease	9
3.1.5 - Echocardiography: Masses and Sources of Emboli	2
3.1.6 - Doppler Echocardiography	0
3.1.7 - Transesophageal Echocardiography	4
3.1.8 - Contrast Echocardiography	1
3.1.9 - Tissue Doppler, Speckle Tracking and Strain Imaging	4
3.1.10 - Stress Echocardiography	2
3.1.11 - 3D Echocardiography	3
3.1.12 - Intraoperative and Interventional Echocardiography	2
3.1.99 - Echocardiography, Other	24
3.6 - Cross-Modality and Multi-Modality Imaging Topics	0
3.6.1 - Imaging: Cardiac Dimensions, Volume, and Mass	0
3.6.2 - Imaging: Systolic and Diastolic Function	0
3.6.3 - Imaging: Valve Disease	5
3.6.4 - Imaging: Arrhythmias	0
3.6.5 - Imaging: Heart Failure	2
3.6.6 - Imaging: Coronary Artery Disease	1
3.6.7 - Imaging: Acute Coronary Syndromes	0
3.6.8 - Imaging: Myocardial Disease	13
3.6.9 - Imaging: Pericardial Disease	1
3.6.10 - Imaging: Congenital Heart Disease	9
3.6.11 - Imaging: Diseases of the Aorta	0
3.6.12 - Imaging: Peripheral Vascular Disease	0
3.6.13 - Imaging: Prevention and Rehabilitation	0
3.6.99 - Cross-Modality and Multi-Modality Imaging, Other	30
Grand Total	129

- Sessions by category

Row Labels	# sessions
Mobile App - Ask a Question	105
Mobile App - Vote and Ask a Question	6
Clinical Imaging	8
Congenital heart disease	9
Core Curriculum	9
EACVI HIT (Heart Imagers of Tomorrow)	27
Joint Session	31
Level 1 certification	5

- Joint Session with comparison with previous year (include attendance in brackets)

Joint sessions with...	EE2013	EEI2014	EEI2015	EEI2016	EEI2017	EEI2018	EE2019
Joint session with the Asian Society of Cardiovascular Imaging (ASCI)							
Joint session with the Asean Society of Echocardiography (ASEANEcho)							
... the American Society of Echocardiography (ASE)	4	2	2	2	5	2	3
... the American Society of Echocardiography (ASE) and ESC Working Group on Congenital Heart Disease		1					
... the Association for European Paediatric and Congenital Cardiology (AEPC) and the American Society of Echocardiography (ASE)	1						
... Asia-Pacific Association of Echocardiography (AAE)		1	1		1	1	1
... ECOSIAC			1	1	1	1	1
... the European Association for Cardiovascular Prevention & Rehabilitation (EACPR)		1	1	1			
... the European Association of Cardiovascular Imaging (EACVI) and the European Association of Nuclear Medicine (EANM)		1	1	1			
... the European Association of Cardiovascular Imaging (EACVI) and the European Society of Cardiac Radiology (ESCR)		1	1	2		1	
... the European Heart Rhythm Association (EHRA)	1	1		1		1	1
... the European Association of Cardiothoracic Anaesthesiologists (EACTA)	3	3					1
Joint session with the American Society of Nuclear Cardiology (ASNC)				1			
Session in collaboration with the Heart Failure Association (HFA of the ESC)					1		1
HIT HOT session (Heart Imagers of Tomorrow - Heart failure specialists Of Tomorrow)						1	
Joint session with the National Association of Hospital Cardiologists (ANMCO)						1	
Joint session with the ESC Council of Cardio-Oncology							1
Course on Acute Cardiac Care (ACC) - Joint session with the Acute Cardiovascular Care Association (ACCA)							1
Joint session with the Argentina Society of Cardiology							1
Joint session with the Austrian Working Group of Echocardiography		2	1				1
Joint session with the Cardiac Society of Australia and New Zealand (CSANZ)						1	1
Joint session with the Cardiovascular Imaging Department of the Brazilian Society of Cardiology (DIC)					1	1	1
... the Bulgarian Working Group of Echocardiography	1			1			

Joint sessions with...	EE2013	EEI2014	EEI2015	EEI2016	EEI2017	EEI2018	EE2019
...Canadian Society of Echocardiography (CSE)				1	1	1	1
Joint with Club 35	1						
... the EACVI Club 35 and the ESC Cardiologist of Tomorrow	1	1					
Joint session with the Chinese Society of Echocardiography (CSE)							
Joint session with the Working group on echocardiography and imaging modalities in cardiology - Croatian Cardiac Society							
Joint session with the Czech Association of Cardiovascular Imaging of the Czech Society of Cardiology							1
... the United Arab Emirates Working Group of Echocardiography	1						
... the French Society of Cardiology		1					
Joint session with the Working Group of Echocardiography of the German Cardiac Society					1		
... the Dutch Working Group of Echocardiography				1			1
... the Hellenic Working Group on Echocardiology (HWGE)	1				1		
Joint session with the Hungarian Association of Cardiovascular Imaging							1
Joint session with the Indian Academy of Echocardiography (IAE)					1	1	1
...the Iranian Society of Echocardiography (ISE)				1			
Joint session with the Italian Society of Echocardiography and Cardiovascular Imaging (SIECVI)					1	1	1
... the Japanese Society of Echocardiography (JSE)			1	1		1	1
... the Korean Society of Echocardiography (KSE)				1	1	1	1
Joint session with the National Society of Echocardiography of Mexico							
... the Moroccan Working Group on Echocardiography				1			
Joint with Norway	1		1				
Joint with the Polish Cardiac Society		1		1			1
Joint with Portugal			1				
Joint session with the Working Group on Echocardiography and other Imaging modalities of the Romanian Society of Cardiology					1		
Joint with the Saudi Heart Association (SHA)		1	1	1	1	1	1
Joint session with the Cardiovascular Imaging Working Group of Serbia						1	
... the Spanish Association of Cardiac Imaging			1				
Joint with Tunisia			1				
... the Turkish Working Group of Cardiac Imaging	4	1			1		
... the Working Group on Valvular Heart Disease (VHD)	3	6	2	1			
... the Working Group on Pulmonary Circulation and Right Ventricular Function	1	1	1				
... the Working Group on Myocardial and Pericardial Disease.	1			1			
... the ESC Working Group on Cardiovascular Magnetic Resonance and the ESC Working Group on Nuclear Cardiology and Cardiac Computed Tomography.	2						
... the ESC Working Groups on Grown-up Congenital Heart Disease and the Association for European Paediatric and Congenital Cardiology (AEPC)	5						
... the Working Group on Pericardial /LV function		1					
... the Nordic Working Group on Echocardiography.		1			1		
... the ESC Working Group on e-Cardiology	1	1				1	1
... the ESC Working Groups on Grown-up Congenital Heart Disease		3					
	32	31	17	20	19	18	25

● **Joint Session with attendance**

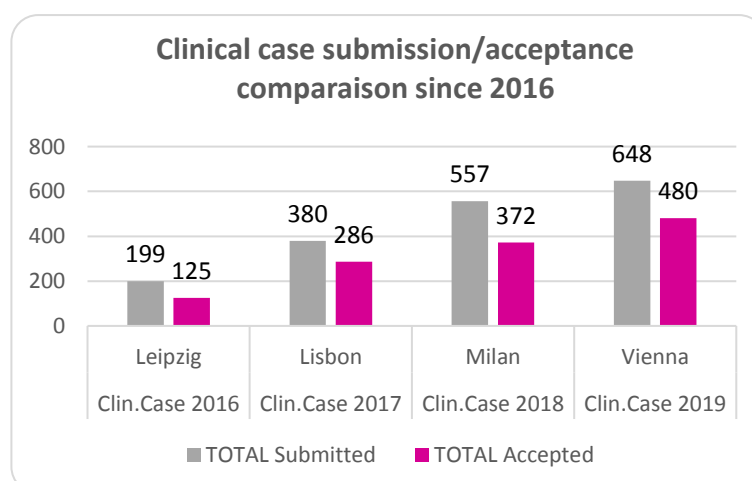
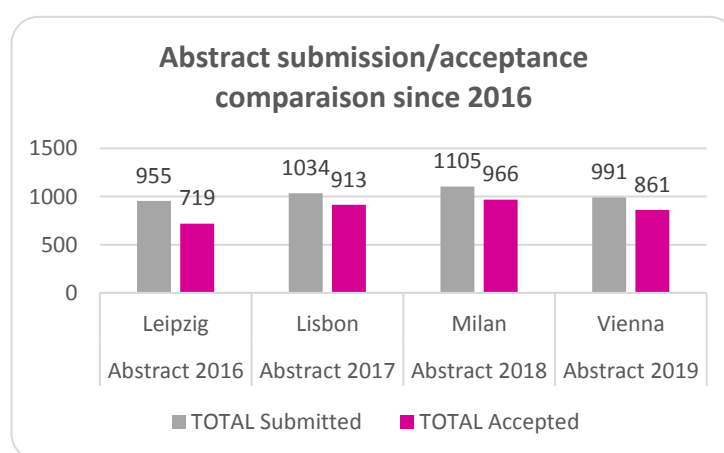
SESSION N°	Session Title	Head count peak
102	Cardiac imaging in cardiac oncology - Joint session with the ESC Council of Cardio-Oncology	380
132	Mitral valve prolapse and sudden cardiac death - Joint session with the American Society of Echocardiography (ASE)	360
607	The Essential Guide to 3D Echocardiography - Course on three-dimensional echocardiography - Joint session with the American Society of Echocardiography (ASE)	330
131	Speckle tracking imaging: tool or toy? - Joint session with the Austrian Working Group of Echocardiography	260
608	Where Three-Dimensional Echocardiography Makes a Difference (Cased-Based Approach) - Course on three-dimensional echocardiography - Joint session with the American Society of Echocardiography (ASE)	240
134	Speckle tracking echocardiography - best validated clinical applications - Joint session with the Korean Society of Echocardiography (KSE)	235
137	Left ventricular noncompaction: fiction or real? - Joint session with the Canadian Society of Echocardiography (CSE)	180
602	Acute shortness of breath: what echo can offer? - Course on Acute Cardiac Care (ACC) - Joint session with the Acute Cardiovascular Care Association (ACCA)	160
143	CRT Optimization: Is this the real life? - Joint session with the European Heart Rhythm Association (EHRA)	140
104	Multidisciplinary approach for Takotsubo cardiomyopathy - Joint session with the Japanese Society of Echocardiography (JSE)	130
146	3D: Only fancy images or real clinical tool - Joint session with the Saudi Heart Association (SHA)	130
609	Novel and Emerging Three-dimensional Echocardiographic Applications - Course on three-dimensional echocardiography - Joint session with the American Society of Echocardiography (ASE)	130
617	Transesophageal echo in acutely altered hemodynamic states - Course on Transesophageal Echocardiography (TOE) - Joint session with the European Association of Cardiothoracic Anaesthesiologists (EACTA)	130
616	Transesophageal echo for interventional mitral valve procedures - Course on Transesophageal Echocardiography (TOE) - Joint session with the European Association of Cardiothoracic Anaesthesiologists (EACTA)	120
618	Transesophageal echo in aortic disease - Course on Transesophageal Echocardiography (TOE) - Joint session with the European Association of Cardiothoracic Anaesthesiologists (EACTA)	120
133	Multimodality imaging in patients with coronary artery disease. New recommendations from EACVI and ASE - Joint session with the American Society of Echocardiography (ASE)	115
603	Doing bad: can echo help ? - Course on Acute Cardiac Care (ACC) - Joint session with the Acute Cardiovascular Care Association (ACCA)	115
135	Strange masses and emboli - Joint session with the Indian Academy of Echocardiography (IAE)	110
145	Dyspnea at Exercise in Heart Failure - Joint session in collaboration with the Heart Failure Association (HFA of the ESC)	110
159	How to image and when to treat the tricuspid valves Joint with Poland - Joint session with the Polish Cardiac Society	110
147	Role of imaging modalities for clinical decision making in pericarditis - Joint session with the Czech Association of Cardiovascular Imaging of the Czech Society of Cardiology	100
148	Echocardiography during cardiac interventions - Joint session with the Working Group of Echocardiography of the German Cardiac Society	100
138	Cardiovascular imaging in infectious cardiac diseases - Joint session with the Cardiovascular Imaging Department of the Brazilian Society of Cardiology (DIC)	90
601	Thoracic pain and/or palpitations : what is the role of echo? - Course on Acute Cardiac Care (ACC) - Joint session with the Acute Cardiovascular Care Association (ACCA)	80
150	What I need to know about right ventricle? - Joint session with the Hungarian Association of Cardiovascular Imaging	70
139	Bicuspid aortic valve and ascending aorta dilatation - Joint session with the Italian Society of Echocardiography and Cardiovascular Imaging (SIECVI)	60
160	Imaging in non ischaemic cardiomyopathy - Joint session with the Association of the Interamerican Society of Cardiology (ECOSIAC)	50
142	Cardio-metabolism party - Joint session with the Cardiac Society of Australia and New Zealand (CSANZ)	40
144	The how and why of intracardiac vector flow imaging - Joint session with the Asia-Pacific Association of Echocardiography (AAE)	40
161	The role of echocardiography in rheumatic disease - Joint session with the Argentina Society of Cardiology	40
149	Machine learning: how to implement it into my practice? - Joint sessions with the ESC Working Group on e-Cardiology	20

- Sessions with Mob App voting

Session Title	Max voting delegate per question	Total number of questions (Number of votes per session all presentations included)	Total votes on the session (Delegates votes using app)	Average number of votes per question
Interactive Cardiac Imaging Quiz: the most challenging cases from everyday clinical practice	162	15	1736	115
Dr Jekyll & Mr Hyde session	39	3	98	33
Cardiac imaging for TAVI and MitraClip procedures	29	4	96	24
Is multi Imaging modalities always required?	36	4	114	29
Multimodality imaging and challenging the heart team	32	11	260	24
POCUS on NICU or PICU	13	2	25	12

2.4 Occupancy of scientific sessions

- Overview + graph submitted accepted



- Overall table and comparison with previous years

	Status	2016	2017	2018	2019
Abstracts	Submitted	955	1 034	1 105	991
	Accepted	719	913	966	861
	Accepted withdrawn	23	17	45	37
	% acceptance	75%	88%	87%	87%
Clinical Cases	Submitted	199	380	557	648
	Accepted	125	286	372	480
	Accepted withdrawn	2	6	21	28
	% acceptance	63%	75%	67%	74%
TOTAL	Expected onsite	819	1 176	1272	1 276
	No shows	61	114	62	75
		7%	10%	5%	5%
	Presented	758	1 062	1 210	1 201
Late Breaking Trial submissions	Accepted for oral presentation				3
	Accepted for poster presentation				0
	Accepted - withdrawn				0

- Submissions/Acceptance – top ten country (includes a Variance Column)

Abstract-Submission by Country	Abstract 2018	Abstract 2019	Variance 2018/2019
Italy	180	131	-49
Spain	65	82	17
Portugal	65	60	-5
Poland	64	57	-7
Japan	56	53	-3
Romania	36	52	16
Russian Federation	50	46	-4
United Kingdom of Great Britain & Northern Ireland	37	39	2
France	37	36	-1
Germany	37	34	-3

Clinical case-Submission by Country	Clinical Case 2018	Clinical Case 2019	Variance 2018/2019
Portugal	75	80	5
Italy	66	65	-2
Spain	45	62	17
Romania	47	36	-11
Turkey	25	31	6
The United Kingdom	35	31	-4
The Russian Federation	15	27	12
Japan	21	21	0

Abstract-Accepted by Country	Abstract 2018	Abstract 2019	Variance 2018/2019
Italy	174	120	-54
Spain	61	67	6
Portugal	59	52	-7
Poland	54	49	-5
Japan	51	47	-4
Romania	27	43	16
France	35	35	0
Russian Federation	34	34	0
The United Kingdom	30	33	3
Germany	36	33	-3

Clinical case-Accepted by Country	Clinical Case2018	Clinical Case2019	Variance 2018/2019
Portugal	48	62	14
Italy	50	57	7
Spain	31	51	20
Romania	28	30	2
United Kingdom	28	27	-1
Egypt	27	27	0
Turkey	17	23	6
Poland	15	21	6
Greece	11	14	3
Japan	14	13	-1

- Reviewing committee – Invited/Declined/Graded

Graders Pool Overview	#
Total Experts Invited	181
Declined to be a grader	7
Never replied	8
Graders Pool:	166
Assigned (Accepted but did not grade)	3
Completed grading	163

- Presentation format

Types of Sessions	# Abstracts
Young Investigator Awards Abstracts (2 sessions *4 abstracts)	8
Clinical Case Posters (6 sessions * 54 abstracts)	321
HIT Clinical Case Posters (3 sessions * 26 abstracts)	77
eModerated Clinical Case Posters (7 sessions * 7 abstracts)	49
Oral Clinical cases (3 sessions *10 abstracts)	30
eModerated Posters (9 sessions 8 abstracts)	72
Poster Session (6 sessions ~102 abstracts from Wed to Sat)	614
Hit Poster Session (3 sessions ~27 abstracts from Wed to Friday)	80
Rapid Fire Abstracts (9 sessions * 10 abstracts)	90
Grand Total	1341

• **Award Sessions**

Category – Award	Winner's name / + Country	Prize and benefit	Selection criteria	Abstract Title
		(Free reg/ Membership/Certificates/prizes etc...	(Age/Average grade)	
YIA Basic	Filip Loncaric / Spain	Each finalist will receive a free registration for next year congress. The 1st Prize winner of the YIA Basic will attend the ASE Meeting next year and the YIA Clinical will attend the JSE Meeting. In both sessions, the winner will win €1 000 and the three runner-ups will win a €250 prize each - each winner will also receive a certificate	Be under 40 years old - Submission under the YIA Option and be amongst the best average.	Exploring hypertensive patient profiles based on full myocardial deformation and Doppler traces - insights from a machine-learning approach
YIA Clinical	Jurgen Duchenne / Belgium			Acute re-distribution of regional left ventricular work by cardiac resynchronization therapy determines long-term remodelling

• **Jury Names**

- Jutta Bergler-Klein, AT - Victoria Delgado, NL
- Genevieve Anne Derumeaux, FR - Frank Arnold Flachskampf, SE
- Andreas Hagendorff, DE - Kristina Hermann Haugaa, NO
- Mark John Monaghan, GB - Mauro Pepi, IT

- Abstract Presenters

- Country representation

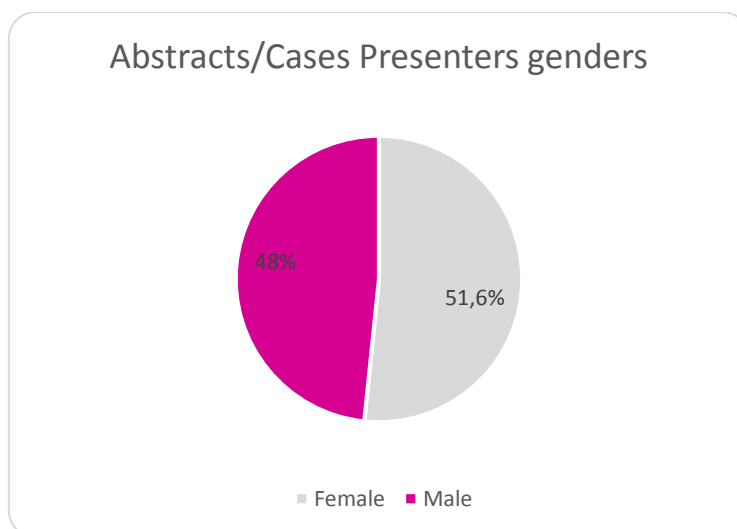
Country 2019	presenters	abstracts/cases presented	Country 2019	presenters	abstracts/cases presented
Albania	2	3	Latvia	1	1
Algeria	1	1	Lebanon	1	1
Argentina	3	4	Lithuania	5	6
Australia	17	23	Malaysia	1	2
Austria	10	14	Malta	2	3
Bahrain	1	1	Mexico	7	11
Belgium	17	22	Morocco	1	3
Bosnia and Herzegovina	1	1	Netherlands (The)	9	11
Brazil	12	17	North Macedonia	1	1
Bulgaria	9	11	Norway	16	23
Canada	7	9	Oman	1	1
China	4	4	Philippines	3	3
Colombia	1	2	Poland	52	69
Croatia	2	2	Portugal	49	112
Cyprus	2	3	Qatar	5	7
Czechia	9	9	Romania	70	77
Denmark	6	6	Russian Federation	30	39
Egypt	15	26	Saudi Arabia	4	6
Finland	1	2	Serbia	11	15
France	17	28	Singapore	4	5
Georgia	1	1	Slovakia	1	1
Germany	23	32	Slovenia	12	16
Greece	21	34	Spain	75	113
Hong Kong	3	4	Sweden	11	12
Hungary	14	23	Switzerland	8	10
India	2	3	Taiwan	1	1
Indonesia	3	3	Thailand	2	2
Iran (Islamic Republic of)	3	4	Tunisia	1	2
Iraq	2	2	Turkey	15	26
Ireland	2	2	Ukraine	1	1
Israel	7	7	United Arab Emirates	1	2
Italy	110	164	United Kingdom of Great Britain & Northern Ireland	39	49
Japan	47	56	United States of America	20	23
Korea (Republic of)	16	17	Uzbekistan	2	2
Kosovo Republic of	3	5	Grand Total	856	1201

- Presentation age group

Age Range of Presenters	Presenters		abstracts/cases presented	
35 and under	453	52,90%	640	53,30%
36 to 40	138	16,20%	200	16,60%
41 to 46	109	12,60%	157	13,10%
47 to 57	105	12,30%	133	11,10%
58 to 68	45	5,30%	64	5,30%
69 and above	6	0,70%	7	0,60%
undisclosed	0	0,00%	0	0,00%
Grand Total	856	100,00%	1201	100,00%

- Gender Representation

Presenters Gender	PRESENTERS	
Female	442	51,60%
Male	414	48,00%
Grand Total	856	100,00%



- No-show Representation - By region

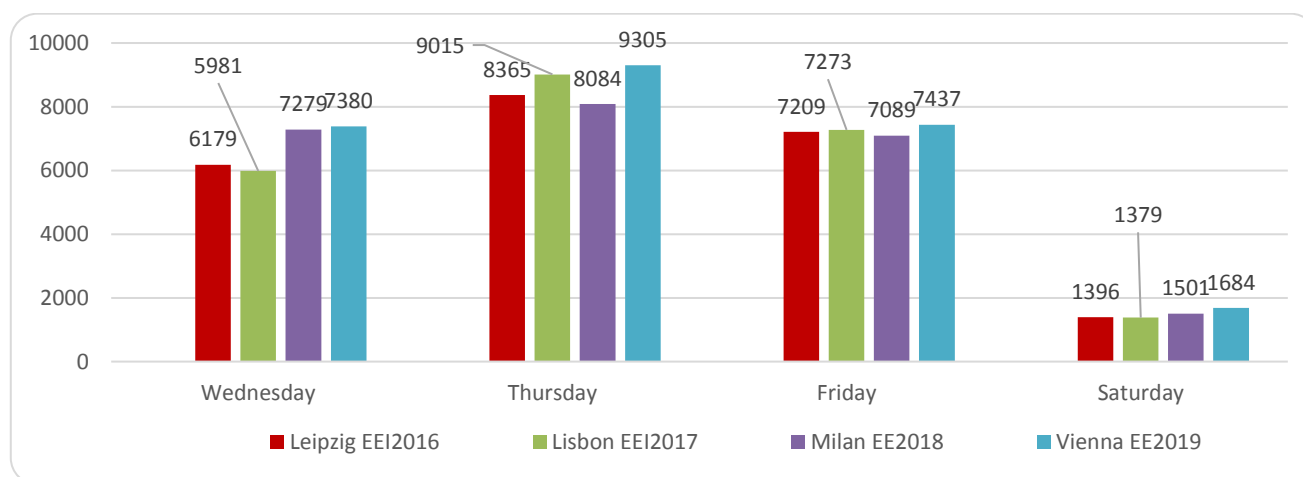
No Show Presenters by Region	Persons	Presentations
Africa (non-ESC)	0	0
Asia Pacific	18	23
ESC	44	47
North America	3	3
South & Central America	1	2
Grand Total	66	75

- By country of origin

Country of Origin of No-Show Presenters	Persons	Presentations	Country of Origin of No-Show Presenters	Persons	Presentations
Algeria	2	2	Mexico	1	1
Australia	1	1	North Macedonia	1	1
Azerbaijan	1	1	Pakistan	4	4
Bahrain	1	1	Qatar	1	1
Brazil	1	2	Romania	2	2
China	3	3	Russian Federation	4	5
Egypt	6	6	Saudi Arabia	1	2
France	2	2	Serbia	1	1
Germany	1	1	Spain	3	3
Greece	1	1	Tunisia	2	3
India	2	5	Turkey	2	2
Indonesia	1	1	Ukraine	1	1
Iran (Islamic Republic of)	2	3	United Kingdom of Great Britain & Northern Ireland	3	3
Italy	12	13	United States of America	2	2
Japan	2	2	Grand Total	66	75

2.5 Occupancy

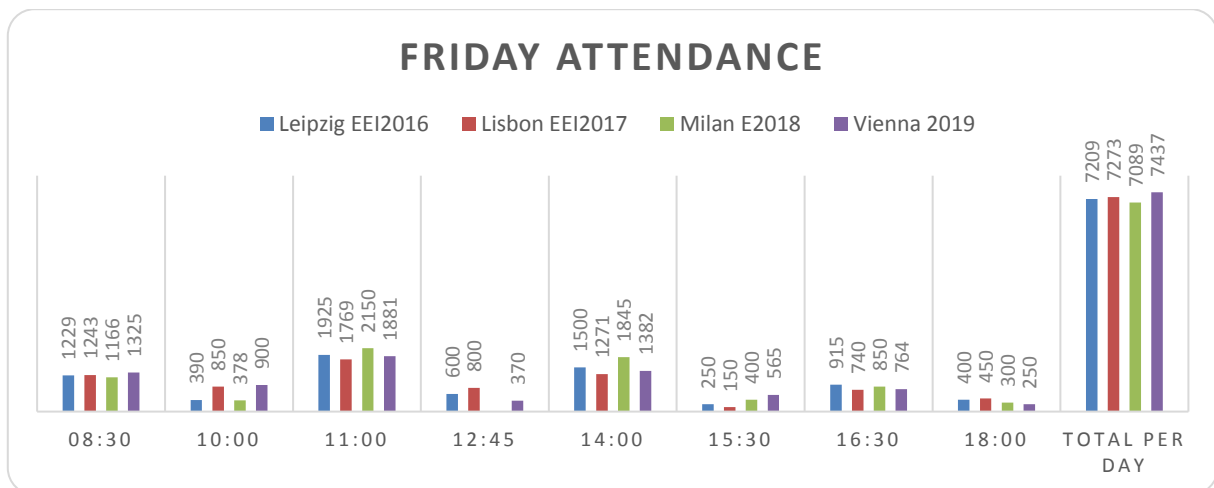
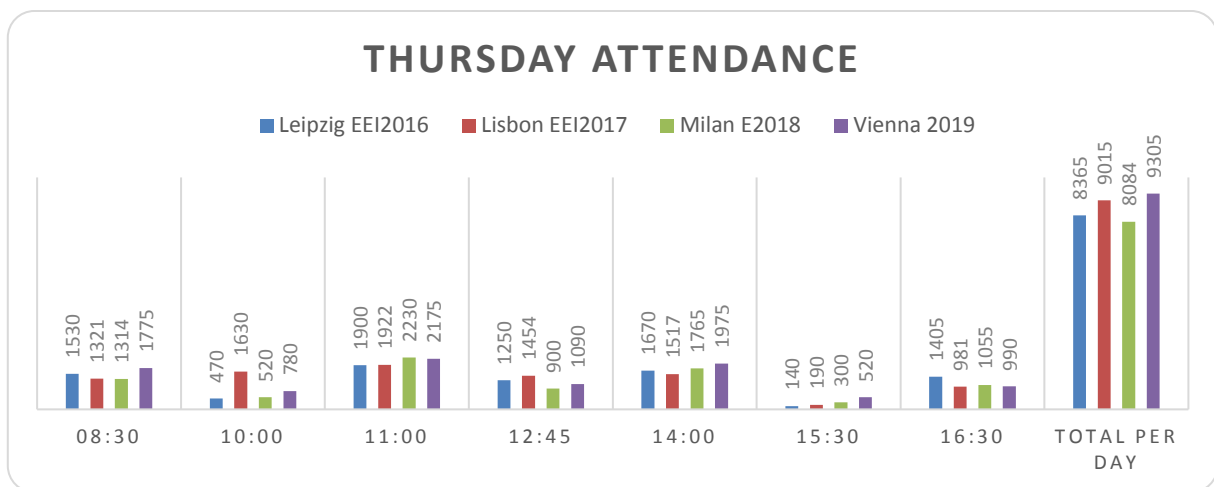
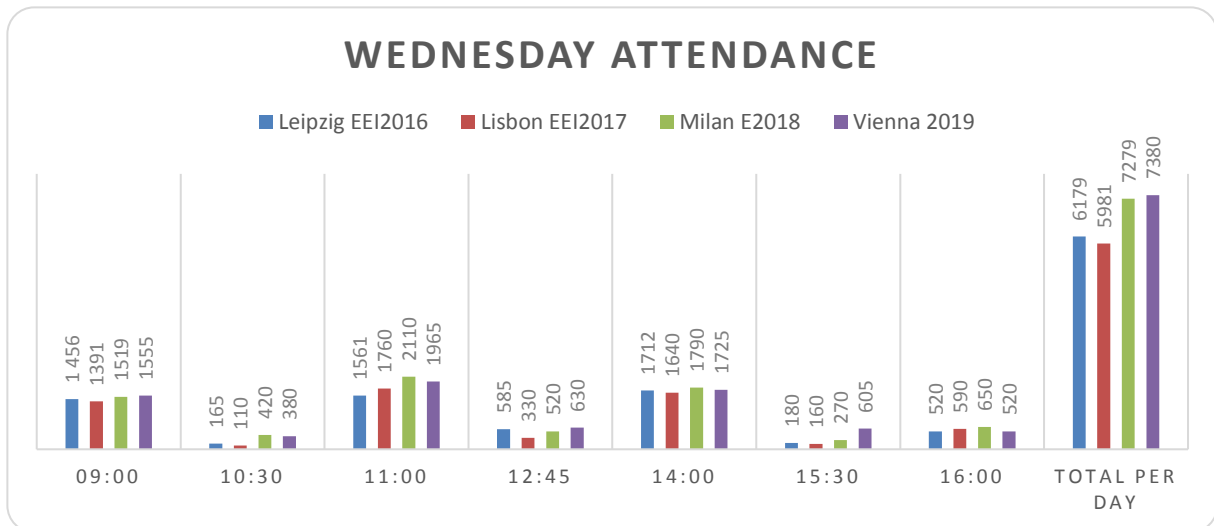
- Overall attendance + figures number of sessions – Including Satellites & Industry



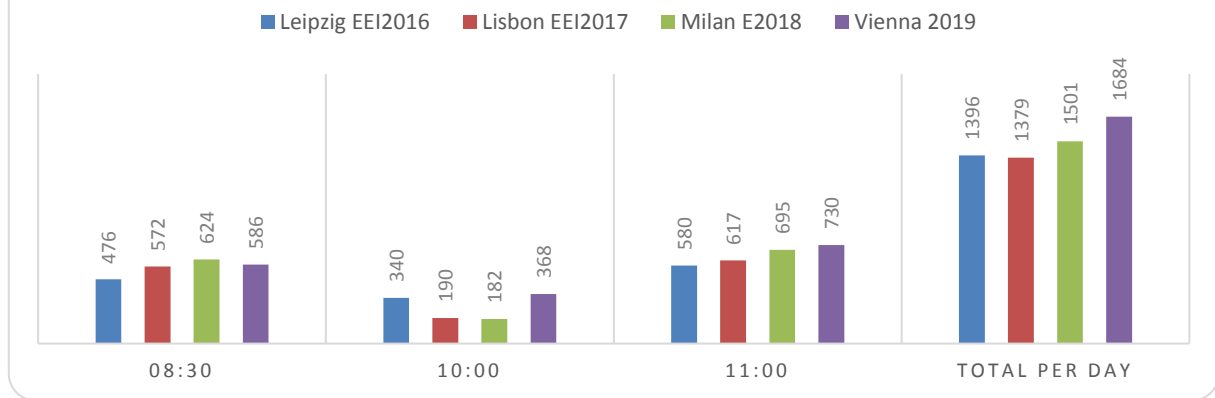
- Per time slot

	Start time	Leipzig EEI2016	Lisbon EEI2017	Milan EEI2018	Vienna EEI2019	% of total attendance per day
Wednesday	09:00	1 456	1391	1519	1555	21,1
	10:30	165	110	420	380	5,1
	11:00	1561	1760	2110	1965	26,6
	12:45	585	330	520	630	8,5
	14:00	1712	1640	1790	1725	23,4
	15:30	180	160	270	605	8,2
	16:00	520	590	650	520	7,0
	Total per day	6179	5981	7279	7380	100,0
Thursday						
	08:30	1530	1321	1314	1775	19,1
	10:00	470	1630	520	780	8,4
	11:00	1900	1922	2230	2175	23,4
	12:45	1250	1454	900	1090	11,7
	14:00	1670	1517	1765	1975	21,2
	15:30	140	190	300	520	5,6
	16:30	1405	981	1055	990	10,6
	Total per day	8365	9015	8084	9305	100,0
Friday						
	08:30	1229	1243	1166	1325	17,8
	10:00	390	850	378	900	12,1
	11:00	1925	1769	2150	1881	25,3
	12:45	600	800		370	5,0
	14:00	1500	1271	1845	1382	18,6
	15:30	250	150	400	565	7,6
	16:30	915	740	850	764	10,3
	18:00	400	450	300	250	3,4
	Total per day	7209	7273	7089	7437	100,0
Saturday						
	08:30	476	572	624	586	34,8
	10:00	340	190	182	368	21,9
	11:00	580	617	695	730	43,3
	Total per day	1396	1379	1501	1684	100,0
	Total per day	23149	23648	23953	25986	

- Table attendance per day versus previous years



SATURDAY ATTENDANCE



- Details occupancy per day – sorted by day/time

- Wednesday 4th December

WEDNESDAY Type	Session Title	Start Time	Head count peak	Room Capacity
Teaching Course	The Essential Guide to 3D Echocardiography - Course on three-dimensional echocardiography - Joint session with the American Society of Echocardiography (ASE)	09:00:00	330	400
Teaching Course	The tricuspid valve: the forgotten or troublesome valve? - Course on Valvular Heart Disease (VHD)	09:00:00	300	840
Teaching Course	The hypertrophy heart - Course on Cardiomyopathy	09:00:00	210	350
Teaching Course	What is speckle tracking and why do we need it? - Course on strain echo	09:00:00	190	500
Teaching Course	The essentials of diastolic function assessment - Course on distolic function	09:00:00	190	200
Teaching Course	Transesophageal echo for interventional mitral valve procedures - Course on Transoesophageal Echocardiography (TOE) - Joint session with the European Association of Cardiothoracic Anaesthesiologists (EACTA)	09:00:00	120	200
Teaching Course	Thoracic pain and/or palpitations : what is the role of echo? - Course on Acute Cardiac Care (ACC) - Joint session with the Acute Cardiovascular Care Association (ACCA)	09:00:00	80	300
Teaching Course	Imaging assessment of the collapsed baby	09:00:00	60	80
Rapid Fire Abstracts	What is new in tricuspid regurgitation?	09:00:00	40	80
Teaching Course	FoCUS: introduction and principles	09:00:00	35	80
How-to Session	How to use multimodality imaging to assess right ventricle	10:30:00	380	500
Teaching Course	Speckle Tracking and strain, where is it useful? - Course on strain echo	11:00:00	500	500
Teaching Course	Where Three-Dimensional Echocardiography Makes a Difference (Cased-Based Approach) - Course on three-dimensional echocardiography - Joint session with the American Society of Echocardiography (ASE)	11:00:00	240	400
Teaching Course	Dilated cardiomyopathy - Course on Cardiomyopathy	11:00:00	230	350

WEDNESDAY Type	Session Title	Start Time	Head count peak	Room Capacity
Teaching Course	Transcatheter therapy for functional MR: lessons from COAPT and MITRA-FR - Course on Valvular Heart Disease (VHD)	11:00:00	190	<i>840</i>
Teaching Course	The concept of "myocardial disease" in the diastolic recommendations - case-based session - Course on diastolic function	11:00:00	170	<i>200</i>
Teaching Course	Acute shortness of breath: what echo can offer? - Course on Acute Cardiac Care (ACC) - Joint session with the Acute Cardiovascular Care Association (ACCA)	11:00:00	160	<i>300</i>
Clinical Cases	Valvular heart disease	11:00:00	145	<i>80</i>
Teaching Course	Transoesophageal echo in acutely altered hemodynamic states - Course on Transoesophageal Echocardiography (TOE) - Joint session with the European Association of Cardiothoracic Anaesthesiologists (EACTA)	11:00:00	130	<i>200</i>
Teaching Course	Septation Defects	11:00:00	95	<i>80</i>
Teaching Course	FoCUS targets	11:00:00	60	<i>80</i>
Workshop	Focus on mitral valve disease (native and prosthetic)	11:00:00	45	<i>30</i>
Satellite Symposium	State of the art contrast echo in clinical practice: A proven impact on diagnostic outcomes - Sponsored by Lantheus	12:45:00	330	<i>300</i>
Satellite Symposium	Latest innovations in echocardiography - Sponsored by GE Healthcare	12:45:00	300	<i>400</i>
Teaching Course	Imaging in aortic regurgitation - Course on Valvular Heart Disease (VHD)	14:00:00	450	<i>840</i>
Teaching Course	Arrhythmogenic cardiomyopathy (AC) - Course on Cardiomyopathy	14:00:00	280	<i>350</i>
Teaching Course	Speckle tracking, the game-changer - Course on strain echo	14:00:00	225	<i>500</i>
Teaching Course	Novel and Emerging Three-dimensional Echocardiographic Applications - Course on three-dimensional echocardiography - Joint session with the American Society of Echocardiography (ASE)	14:00:00	130	<i>400</i>
Teaching Course	The concept of "myocardial disease" in the diastolic recommendations - case-based session - Course on diastolic function	14:00:00	130	<i>200</i>
Teaching Course	Transesophageal echo in aortic disease - Course on Transoesophageal Echocardiography (TOE) - Joint session with the European Association of Cardiothoracic Anaesthesiologists (EACTA)	14:00:00	120	<i>200</i>
Teaching Course	Doing bad: can echo help ? - Course on Acute Cardiac Care (ACC) - Joint session with the Acute Cardiovascular Care Association (ACCA)	14:00:00	115	<i>300</i>
Rapid Fire Abstracts	Systolic and diastolic function	14:00:00	95	<i>80</i>
Teaching Course	Functional assessment in adult	14:00:00	85	<i>80</i>
Teaching Course	FoCUS in clinical scenarios	14:00:00	70	<i>80</i>
Workshop	Focus on aortic valve disease (native and prosthetic)	14:00:00	25	<i>30</i>
How-to Session	How to not miss hypertrophic cardiomyopathy	15:30:00	530	<i>500</i>
Special Session	The research in imaging in the world - ASE and JSE YIA Winners	15:30:00	75	<i>80</i>
Special Event	Inaugural session	16:00:00	520	<i>840</i>

○ Thursday 5th December

THURSDAY Type	Session Title	Start Time	Head count peak	Room Capacity
Main Session	Imaging in intensive care	08:30:00	420	840
Symposium	Valvular heart disease and heart failure: burning issues	08:30:00	400	500
Symposium	Speckle tracking imaging: tool or toy? - Joint session with the Austrian Working Group of Echocardiography	08:30:00	260	300
Symposium	Multimodality imaging in pericardial disease - a case based review of pericardial damage	08:30:00	200	200
Teaching Course	Echocardiography essentials	08:30:00	180	400
Symposium	Long term follow up of Congenital Heart Disease 1	08:30:00	130	200
Clinical Seminar	More awareness about diabetes and heart failure	08:30:00	65	350
Rapid Fire Abstracts	Imaging: heart failure	08:30:00	65	80
Workshop	Focus on mitral valve disease (native and prosthetic)	08:30:00	30	30
Workshop	Focus on aortic valve disease (native and prosthetic)	08:30:00	25	80
Abstract Session	Young Investigator Award session - Basic Science	10:00:00	120	80
How-to Session	How to perform a 3D TOE	10:10:00	600	500
Teaching Course	Prelude to echocardiography	10:10:00	60	80
Special Session	Interactive Cardiac Imaging Quiz: the most challenging cases from everyday clinical practice	11:00:00	500	500
Teaching Course	State-of-the-art Chamber Quantification	11:00:00	400	400
Main Session	Cardiac imaging in cardiac oncology - Joint session with the ESC Council of Cardio-Oncology	11:00:00	380	840
Special Session	Mitral valve prolapse and sudden cardiac death - Joint session with the American Society of Echocardiography (ASE)	11:00:00	360	300
Clinical Seminar	Pregnancy and the heart	11:00:00	170	350
Symposium	Longterm follow up of Congenital Heart Disease 2	11:00:00	160	200
Clinical Cases	Echocardiography: masses and sources of emboli	11:00:00	95	80
Workshop	Focus on atrial septal defect closure	11:00:00	40	80
Symposium	Cardio-metabolism party - Joint session with the Cardiac Society of Australia and New Zealand (CSANZ)	11:00:00	40	200
Workshop	Focus on Mitraclip	11:00:00	30	30
Satellite Symposium	Innovative echo toolbox for the heart failure “exploring underlying pathomechanism. Panel discussion illustrated by clinical cases. - Sponsored by Philips	12:45:00	340	400
Satellite Symposium	How to use advanced ultrasound technologies in daily practice - Sponsored by Canon Medical Systems Europe BV	12:45:00	260	350
Satellite Symposium	Addressing tricuspid regurgitation through annular reduction - Sponsored by Edwards Lifesciences	12:45:00	260	200
Satellite Symposium	Implementation of contrast echocardiography in routine clinical practice and impact on patient management - Sponsored by Bracco	12:45:00	230	300
Main Session	Advanced critical care echocardiography	14:00:00	360	840
Symposium	Speckle tracking echocardiography - best validated clinical applications - Joint session with the Korean Society of Echocardiography (KSE)	14:00:00	235	300

THURSDAY Type	Session Title	Start Time	Head count peak	Room Capacity
Teaching Course	Advanced echo techniques I: Left ventricular function and mechanics	14:00:00	230	400
Symposium	Congenital tips and tricks for non-congenital specialists	14:00:00	220	200
Special Session	EuroEcho Lecture	14:00:00	200	500
Clinical Seminar	Imaging: one stop shop for patients with stroke	14:00:00	150	350
Symposium	CRT Optimization: Is this the real life? - Joint session with the European Heart Rhythm Association (EHRA)	14:00:00	140	200
Rapid Fire Abstracts	Artificial intelligence, deep-learning, 3D printing...what is the future of imaging?	14:00:00	135	80
Workshop	Focus on mitral valve disease (native and prosthetic)	14:00:00	30	30
Workshop	Focus on aortic valve disease (native and prosthetic)	14:00:00	25	80
Debate Session	Dr Jekyll & Mr Hyde session	14:30:00	250	500
Abstract Session	Young Investigator Award session - Clinical Science - The Roelandt's Young Investigator Award	15:30:00	85	80
How-to Session	How to early detect cardiotoxicity	15:40:00	380	500
Teaching Course	Back to the basics	15:40:00	55	80
Clinical Seminar	Diagnosis and management of cardiac amyloidosis	16:30:00	200	350
Teaching Course	Advanced echo techniques II: principles and pitfalls in interpretation	16:30:00	160	400
Debate Session	Cardiac imaging for TAVI and MitraClip procedures	16:30:00	150	500
Main Session	Multidisciplinary approach for Takotsubo cardiomyopathy - Joint session with the Japanese Society of Echocardiography (JSE)	16:30:00	130	840
Symposium	Multimodality imaging in patients with coronary artery disease. New recommendations from EACVI and ASE - Joint session with the American Society of Echocardiography (ASE)	16:30:00	115	300
Symposium	Focus on the right ventricle	16:30:00	100	200
Symposium	The how and why of intracardiac vector flow imaging - Joint session with the Asia-Pacific Association of Echocardiography (AAE)	16:30:00	40	200
Rapid Fire Abstracts	New insights in aortic stenosis	16:30:00	40	80
Workshop	Focus on right heart pathology	16:30:00	30	30
Workshop	Focus on left atrial appendage closure	16:30:00	25	80

○ Friday 6th December

FRIDAY Type	Session Title	Start Time	Head count peak	Room Capacity
Teaching Course	Valvular heart disease 1: tips and pitfalls in aortic valve diseases	08:30:00	390	400
Main Session	Role of lung ultrasound in acute cardiac care	08:30:00	200	840
Special Session	Artificial intelligence demystified	08:30:00	180	500
Clinical Seminar	Hypertrophic cardiomyopathy: how to apply the guidelines to optimize patient outcome	08:30:00	160	350
Symposium	Strange masses and emboli - Joint session with the Indian Academy of Echocardiography (IAE)	08:30:00	110	300
Symposium	Dyspnea at Exercise in Heart Failure - Joint session in collaboration with the Heart Failure Association (HFA of the ESC)	08:30:00	110	200
Rapid Fire Abstracts	Speckle tracking echocardiography	08:30:00	65	80
Debate Session	Tea for two in the operating theatre	08:30:00	60	200
Workshop	Focus on Mitraclip	08:30:00	30	30
Workshop	Focus on right heart pathology	08:30:00	20	80
Meet the Experts	Meet the Experts session	10:00:00	190	80
How-to Session	How to interpret a stress echocardiography	10:10:00	650	500
Teaching Course	Of heart and valves	10:10:00	60	80
Teaching Course	Valvular heart disease 2	11:00:00	500	400
Symposium	Stress echo in heart failure: essential for diagnosis and patient	11:00:00	340	300
Clinical Seminar	Imaging in the intensive care unit	11:00:00	295	350
Clinical Cases	Imaging myocardial - Pericardial disease	11:00:00	180	80
Symposium	TOE in congenital heart disease (CHD)	11:00:00	160	200
Main Session	Multi-modality imaging approach to Fabry cardiomyopathy	11:00:00	150	840
Symposium	3D: Only fancy images or real clinical tool - Joint session with the Saudi Heart Association (SHA)	11:00:00	130	200
Debate Session	Is multi Imaging modalities always required?	11:00:00	86	500
Workshop	Focus on atrial septal defect closure	11:00:00	30	30
Workshop	Focus on left atrial appendage closure	11:00:00	10	80
Satellite Symposium	Mitral to tricuspid regurgitation: why the echocardiographer is key in improving patient prognosis - Sponsored by Abbott	12:45:00	370	300
Main Session	Echocardiographic monitoring in mechanical ventricular support	14:00:00	260	840
Clinical Seminar	Paradigm shifts in management of aortic stenosis	14:00:00	240	350
Teaching Course	Cardiac masses and sources of embolism	14:00:00	220	400
Late-Breaking Science	Late Breaking Science	14:00:00	200	300
Case-based Session	How should I image left ventricular hypertrophy	14:00:00	180	200

FRIDAY Type	Session Title	Start Time	Head count peak	Room Capacity
Symposium	Role of imaging modalities for clinical decision making in pericarditis - Joint session with the Czech Association of Cardiovascular Imaging of the Czech Society of Cardiology	14:00:00	100	200
Special Session	Multimodality imaging and challenging the heart team	14:00:00	87	500
Rapid Fire Abstracts	Outcome in cardiovascular heart disease: the role of imaging	14:00:00	45	80
Workshop	Focus on Mitraclip	14:00:00	30	30
Workshop	Focus on right heart pathology	14:00:00	20	80
Special Session	Hightech corner session 1 - Echocardiography at the digital era	15:30:00	85	80
How-to Session	How to perform a complete evaluation of the right ventricle by echocardiography	15:40:00	430	500
Teaching Course	Around the heart	15:40:00	50	80
Symposium	Left ventricular noncompaction: fiction or real? - Joint session with the Canadian Society of Echocardiography (CSE)	16:30:00	180	300
Teaching Course	Non-invasive hemodynamic assessment in different contexts	16:30:00	180	400
Clinical Seminar	Pulmonary Hypertension	16:30:00	110	350
Symposium	Echocardiography during cardiac interventions - Joint session with the Working Group of Echocardiography of the German Cardiac Society	16:30:00	100	200
Symposium	The fantastic 4: the 4 best papers of my journal in 2018	16:30:00	50	200
Main Session	Cardiovascular Imaging for organ damage in hypertension	16:30:00	40	840
Rapid Fire Abstracts	Speckle tracking echocardiography: diagnostic and prognostic aspects	16:30:00	40	80
Workshop	Focus on atrial septal defect closure	16:30:00	25	30
Debate Session	POCUS on NICU or PICU	16:30:00	24	500
Workshop	Focus on left atrial appendage closure	16:30:00	15	80
Special Session	Echo@Jeopardy	18:00:00	250	500

○ Saturday 7th December

SATURDAY Type	Session Title	Start Time	Head count peak	Room Capacity
Teaching Course	Standard and advanced echocardiographic evaluation in cardiomyopathies	08:30:00	230	400
Symposium	How to image and when to treat the tricuspid valves Joint with Poland - Joint session with the Polish Cardiac Society	08:30:00	110	200
Symposium	Cardiovascular imaging in infectious cardiac diseases - Joint session with the Cardiovascular Imaging Department of the Brazilian Society of Cardiology (DIC)	08:30:00	90	300
Symposium	007 at work: unmasking cardiac amyloidosis in your patient!	08:30:00	81	500
Special Session	Hightech corner session 2 - Artificial Intelligence for dummies	08:30:00	55	80
Symposium	Machine learning: how to implement it into my practice? - Joint sessions with the ESC Working Group on e-Cardiology	08:30:00	20	200
Special Session	Hightech corner session 3 - New concepts in echocardiography	10:00:00	80	80
How-to Session	How to make decisions in ICU with the help of Echo	10:10:00	238	500
Teaching Course	Last but not least	10:10:00	50	80
Special Session	EuroEcho 2019 highlights	11:00:00	470	500
Symposium	What I need to know about right ventricle? - Joint session with the Hungarian Association of Cardiovascular Imaging	11:00:00	70	200
Symposium	Bicuspid aortic valve and ascending aorta dilatation - Joint session with the Italian Society of Echocardiography and Cardiovascular Imaging (SIECVI)	11:00:00	60	300
Symposium	Imaging in non-ischaemic cardiomyopathy - Joint session with the Association of the Interamerican Society of Cardiology (ECOSIAC)	11:00:00	50	400
Symposium	The role of echocardiography in rheumatic disease - Joint session with the Argentina Society of Cardiology	11:00:00	40	200
Rapid Fire Abstracts	Stress echocardiography in 2020	11:00:00	40	80

● Overflow Situation When applicable (by Room number)

Room Capacity	Number of sessions per capacity	Overflow activated	NO Overflow
80	19	0	19
200	27	5	22
300	16	3	13
350	12	0	12
400	15	3	12
500	22	6	16
840	12	0	12
30	29	N/A	N/A
TOTAL	152	17	106

2.6 Programme evaluation

- **Chairpersons Evaluation of sessions**

- Chairpersons are asked to rate the overall quality of the session they chair from 1 (bad) to 10 (excellent)

Grade allocated	Number of sessions
6	1
8	2
9	1
10	148
Grand Total	152

- **Chairperson Evaluation of the speakers**

Chairpersons are asked to evaluate the speakers on 3 criteria (Commercial Bias, Presentation Skills & Scientific Content)

The below includes abstract presentation, scientific programme invited presentation and Workshops

Details available in annexe for low scores

- Chairpersons Rating on the Presentations - 1939 Presentations were rated

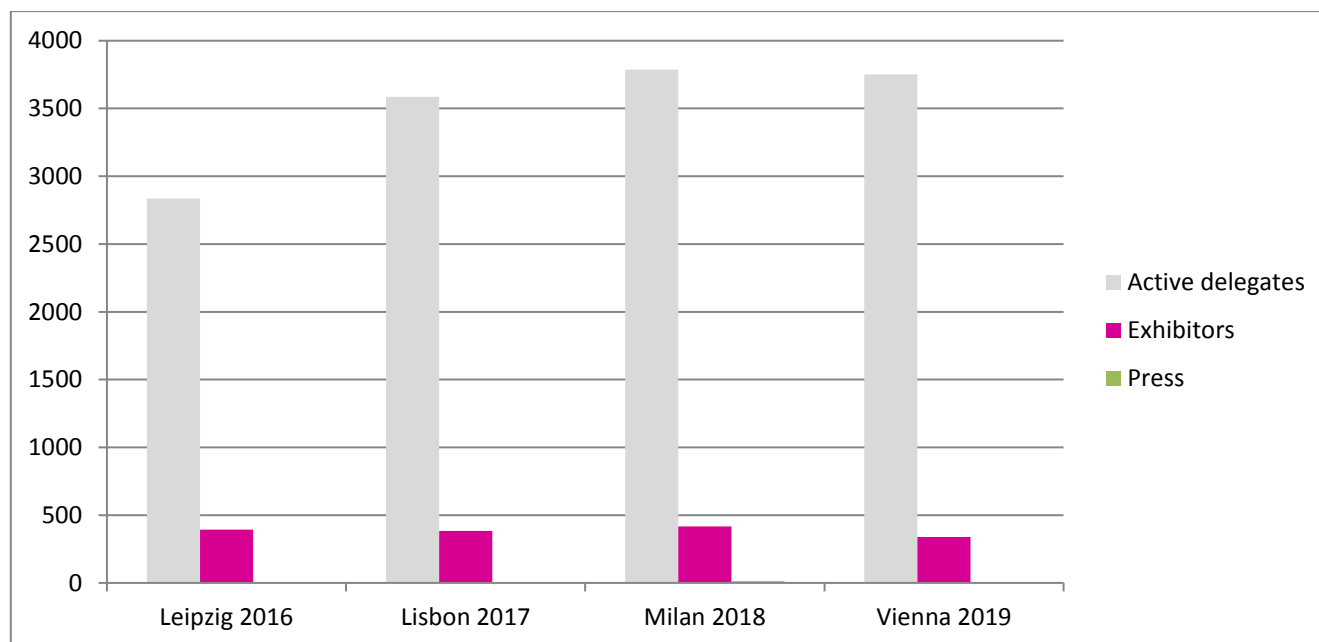
Count of Content Rating	Presentation Rated		Count of Skills Rating	Presentation Rated		Row Labels	Count of Commercial Bias Rating
1	5		1	4		1	160
2	4		2	5		2	197
3	3		3	6		3	3
4	2		4	7		4	6
5	6		5	10		6	2
6	18		6	19		9	5
7	16		7	17		10	54
8	40		8	46		Not rated	31
9	30		9	34		Grand Total	458
10	333		10	308			
Not rated	1		Not rated	2			
Grand Total	458		Grand Total	458			

3. Registration and Attendance

3.1 Registration Overview

Type	2016	2017	2018	2019	+/- 2018
	Leipzig	Lisbon	Milan	Vienna	
Active delegates	2 835	3585	3787	3 752	-35
Exhibitors	393	383	416	338	-78
Press	2	5	13	5	-8
Total	3 230	3 973	4 216	4 095	-121

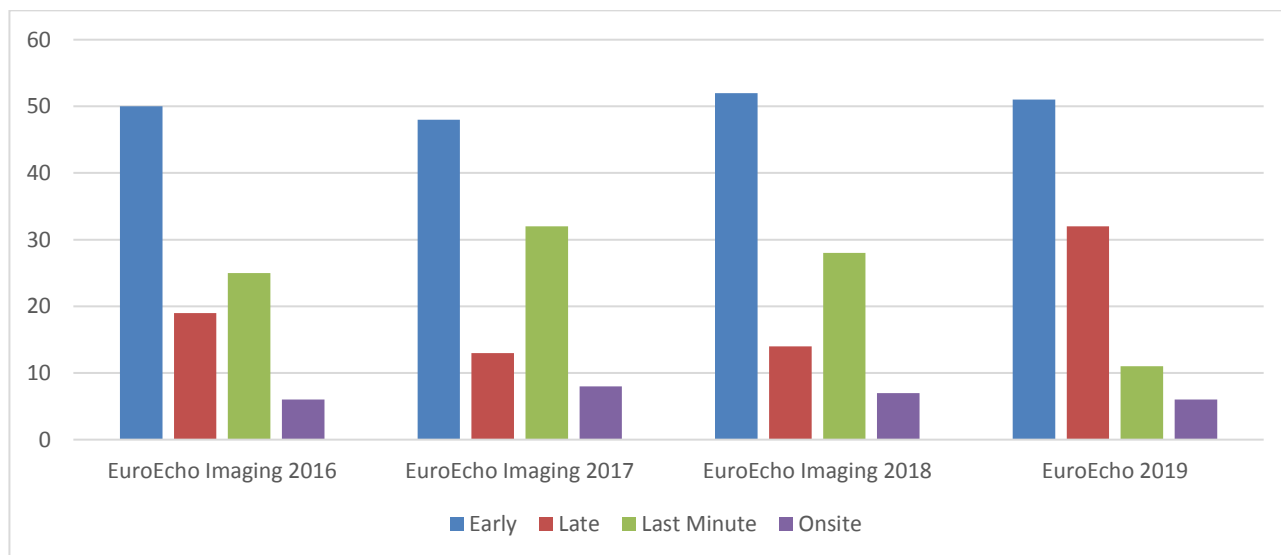
Fig 1. Registration overview by fee type



3.2 Registration by fee period

Fee Period	2016	2017	2018	2019
	Leipzig	Lisbon	Milan	Vienna
EARLY FEE	50%	48%	52%	51%
LATE FEE	19%	13%	14%	32%
Last-minute	25%	32%	28%	11%
On-site	6%	8%	7%	6%

Fig 2. Registration by fee period



3.3 Delegate breakdown by activity

ACTIVITY	% / Event	ACTIVITY	% / Event
Physician Cardiologist - Clinical Cardiologist	63,31%	Physician (non-cardiologist) - General Practitioner / Family Medicine	0,32%
N/A	13,06%	Physician (non-cardiologist) - Paediatrician	0,32%
Physician Cardiologist - Imaging	4,50%	Physician Cardiologist - Adult Congenital Heart Disease	0,27%
Physician Cardiologist - Interventional	2,24%	Physician (non-cardiologist) - Radiologist	0,21%
Physician (non-cardiologist) - Internal Medicine	1,95%	Physician Cardiologist - Scientist Researcher	0,21%
Allied Professional - Medical Technologist / Medical Technician / Technician	1,79%	Allied Professional - Clinical Bioengineer	0,19%
Physician (non-cardiologist) - Other Specialty	1,76%	Other - Industry Representative	0,16%
Allied Professional - Scientist/ Biomedical Scientist	1,41%	Allied Professional - Paramedic	0,13%
Other - Other Healthcare Profession	1,12%	Physician (non-cardiologist) - Emergency Medicine	0,11%
Other - Other	1,04%	Physician Cardiologist - Electrophysiologist	0,11%
Physician (non-cardiologist) - Intensive Care Medicine	1,01%	Allied Professional - Administrator	0,08%
Allied Professional - Echocardiographer / Sonographer	0,96%	Allied Professional - Cardiopneumologist	0,08%
Allied Professional - Cardiac Physiologist	0,93%	Allied Professional - Physiological Scientist	0,05%
Physician Cardiologist - Acute Cardiac Care	0,61%	Allied Professional - Radiographer	0,05%
Physician Cardiologist - Paediatric Cardiology	0,61%	Nurse - Advanced Nurse Practitioner	0,05%
Physician Cardiologist - Heart Failure	0,45%	Other - Press	0,05%
Nurse - Nurse	0,37%	Physician (non-cardiologist) - Nuclear Medicine	0,05%
Physician (non-cardiologist) - Cardio-Thoracic Surgery	0,32%	Physician (non-cardiologist) - Vascular Surgery	0,05%

*N/A – No information available because of an incomplete My ESC Profile.

3.4 Registration by origin

A. Registration TOP 15

Country	Number
Italy	279
United Kingdom of Great Britain & Northern Ireland	262
Romania	220
Netherlands (The)	176
Bulgaria	162
Spain	159
Poland	139
Austria	135
Greece	132
Germany	129
Belgium	115
Norway	113
Portugal	98
Sweden	98
Turkey	91

B. Registration by country

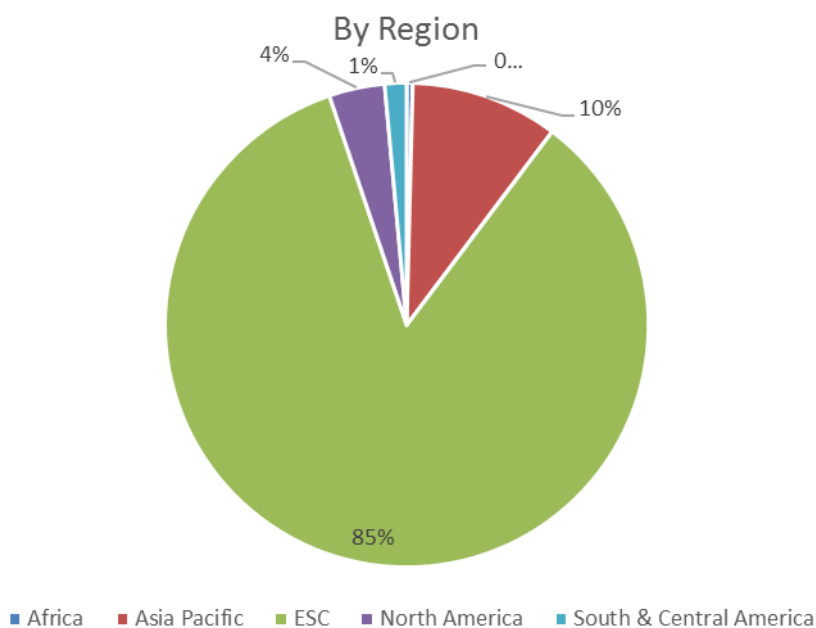
Country	Number	Country	Number
Albania	41	Lebanon	19
Algeria	23	Lithuania	14
Argentina	9	Luxembourg	1
Armenia	11	Macao	1
Australia	42	Malaysia	2
Austria	135	Malta	6
Azerbaijan	1	Mexico	12
Bahrain	5	Moldova (Republic of)	3
Belarus	2	Montenegro	9
Belgium	115	Morocco	7
Bosnia and Herzegovina	26	Myanmar	1
Brazil	38	Netherlands (The)	176
Bulgaria	162	New Zealand	1
Canada	38	Nigeria	2
Chile	2	North Macedonia	9
China	10	Norway	113
Colombia	4	Oman	1
Croatia	29	Pakistan	3
Cyprus	27	Palestine, State of	1
Czechia	42	Peru	1
Denmark	28	Philippines	3
Egypt	32	Poland	139
Estonia	11	Portugal	98
Finland	7	Qatar	19
France	70	Romania	220
Georgia	22	Russian Federation	63
Germany	129	Saudi Arabia	42
Ghana	1	Serbia	69
Greece	132	Singapore	16

Hong Kong	8	Slovakia	15
Hungary	64	Slovenia	44
Iceland	2	South Africa	7
India	11	Spain	159
Indonesia	9	Sri Lanka	6
Iran (Islamic Republic of)	19	Sudan	4
Iraq	22	Sweden	98
Ireland	22	Switzerland	70
Israel	34	Taiwan	2
Italy	279	Thailand	4
Japan	80	Tunisia	6
Jersey	1	Turkey	91
Jordan	2	Ukraine	11
Kazakhstan	1	United Arab Emirates	15
Kenya	1	United Kingdom of Great Britain & Northern Ireland	262
Korea (Democratic People's Republic of)	2	United States of America	90
Korea (Republic of)	35	Uzbekistan	2
Kosovo Republic of	14	Venezuela (Bolivarian Republic of)	1
Kuwait	4	Viet Nam	2
Latvia	13		

C. Registration by region

	Euroecho 2017	Euroecho2018	Euroecho2019
Africa (non ESC)	2	5	15
Asia Pacific	319	390	371
ESC	3080	3210	3176
North America	130	143	140
South & Central America	59	52	55

Figure 3. Registration by region



3.5 Returning delegates

% of delegates who returned to Euroecho 2019	
Lisbon 2018	36%
Leipzig 2017	31%
Seville 2016	24%

- 14% Delegates attended all EACVI Congresses since 2016
- 21% Delegates attended the editions of 2017 and 2018
- 17% Delegates attended the editions of 2016 and 2017

3.6 EACVI members attendance

Comparison EACVI Membership 2015 - 2018	Member	Non-Member
Seville 2015	39,16%	60,84%
Leipzig 2016	27,49%	72,51%
Lisbon 2017	42,62%	57,38%
Milan 2018	58,31%	40,99%
Vienna 2019	76,36%	23,64%

2019 - Lisbon Participation by Membership type*	Members
EACVI Gold	0
EACVI Regular	228
EACVI Silver	2641
EACVI Total	2869

3.7 Exhibitors attendance (comparison evolution since 2014)

	Vienna 2014	Seville 2015	Leipzig 2016	Lisbon 2017	Milan 2018	Vienna 2019
General Exhibitor badges free	195	124	124	102	124	93
Extra orders Exhibitor badges	143	108	145	174	166	153
Scientific Exhibitor badges	n/a	124	124	106	104	93
Total Exhibitor badges	338	356	393	382	405	339

4. YIA & Grants

- **Young Investigators Award**

A competition designed for abstract & clinical case submitters/presenters under 40 or still in training.

All finalists of the competition receive a free registration to come to the congress to present their research. They will be judged by a panel of experts.

The 1st Prize winner of the “Young Investigator Award Session Basic Science” won €1 000 and will attend the American Society of Echocardiography Meeting 2019 (agreement EACVI-ASE). The three runner-ups won €250 prize each.

The 1st Prize winner of the “Young Investigator Award Session Clinical” won €1 000 and will attend the Japanese Society of Echocardiography Meeting 2019 (agreement EACVI-JSE). The three runner-ups won €250 prize each.

- **Grants**

EuroEcho 2019 Congress Educational Grants

Eligibility Criteria

- Be an EACVI Silver Member (Young and Allied)
- Be an Abstract Presenter
- The priority was given to applicants from Low & Middle Income countries (within ESC countries)

Grant benefits

1. Free registration to the Congress
2. Financial contribution toward the cost of travel and accommodation (300 euros) payable after the congress

Application and Selection Results

- 269 Submitted applications
- **30 selected**

5. Industry

5.1 Tracking of participation since 2014

Industry Partners	2014 Vienna	2015 Sevilla	2016 Leipzig	2017 Lisbon	2018 Milan	2019 Vienna
3D Systems			X	X	X	X
Abbott	X	X				X (no stand)
Actelion						
American Society of Echocardiography	X	X	X	X	X	X
Anatomage Inc.			X			
Bioscientifica	X		X	X		
Bracco	X	X	X	X	X	X
British Society of Echocardiography		X			X	X
CAE Healthcare	X	X	X		X	X
Canon	X	X	X	X	X	X
Cardea Software Inc	X					
Circle Cardiovascular Imaging Inc	X	X				
Cleveland Clinic Abu Dhabi		X	X			
SISIAC					X	X
Edwards Lifesciences	X	X	X		X (no stand)	X (no stand)
Epsilon Imaging Inc	X					
Esaote SpA	X	X			X	X
Fukuda Denshi	X	X	X			
GE Healthcare	X	X	X	X	X	X
Hellenic Cardiological Society			X			
HITACHI Medical Systems Europe AG	X	X		X	X	X
InHealth		X	X			
Lantheus Medical Imaging, Inc.			X	X	X	X
HeartWorks by intelligent Ultrasound	X	X	X	X	X	X
Medical Simulation Technologies			X	X		X
Medical University of Lublin			X			
Medimatic Srl	X	X	X		X	
Medis Medical Imaging Systems			X	X	X	
MEDIX, S.A.		X				
MIDES ULTRASOUND			X			
Mindray		X	X			

Industry Partners	2014 Vienna	2015 Sevilla	2016 Leipzig	2017 Lisbon	2018 Milan	2019 Vienna
National Board of Echocardiography					X	
Oxford University Press	X	X	X	X	X	X
Philips	X	X	X	X	X	X
Pie Medical Imaging B.V.			X			
SERVIER		X	X	X	X (no stand)	
Shire International GmbH		X	X			
Siemens Healthineers	X	X	X	X	X	X
(SONECOM) Sociedad Nacional de Ecocardiografia de Mejico				X		
Stroke2Prevent	X					
TomTec Imaging Systems GmbH	X	X	X	X	X	X
Tristel Solutions Limited		X	X	X	X	
Turkish Society of Cardiology						
Ultraling Healthcare Solution Ltd		X	X	X		
Ultromics						X
United Therapeutics			X			
University of Washington		X				
Usono B.V				X	X	
Valtech Cardio GmbH			X			
Ventripoint Diagnostics	X			X	X	
Vinno Technologies						X
Wisepress Online Bookshop Ltd	X	X	X	X	X	X
Total participation Industry	23	28	33	22	25	22

5.2 Sponsorship & advertisement

Product	Industry
Eblast #1	Lantheus
Eblast #2	Siemens
Eblast #3	Siemens
Webcacst	Edwards Lifesciences
Webcacst	Philips
Badge Lead System	Philips

5.3 Exhibition

	2014	2015	2016	2017	2018	2019	Delta 2018
	Vienna	Seville	Leipzig	Lisbon	Milan	Vienna	
Total in m²	548	588	563,5	518	516	485	-31
Total exhibiting companies	25	30	30	23	24	21	-3

5.4 Industry Sponsored Sessions

A. Satellite Symposia

2014 Vienna	2015 Sevilla	2016 Leipzig	2017 Lisbon	2018 Milan	2019 Vienna	Delta 2018
5	7	5	5	5	7	2

Industry Sponsored Sessions held at EuroEcho 2019					
Industry	Day	Timeslot	Room	Seats	Attendance
GE Healthcare	04/12/2019	12:45-13:45	Haydn	400	100%
Lantheus	04/12/2019	12:45-13:45	Steiner	300	110%
Bracco	05/12/2019	12:45-13:45	Steiner	300	80%
Canon	05/12/2019	12:45-13:45	Shoenberg	350	90%
Edwards Lifesciences	05/12/2019	12:45-13:45	Mahler	181	145%
Philips	05/12/2019	12:45-13:45	Haydn	400	100%
Abbott	06/12/2019	12:45-13:45	Steiner	300	150%

B. Practical Tutorials

A total of four (4) Practical Tutorials were organized by four different industries:

1. GE Healthcare
2. Philips
3. Siemens Healthineers
4. TomTec

5.5 Industry feedback

- **Global Feedback**

Industry partners were satisfied with their experience at EuroEcho 2019.

Traffic in the exhibition was considered very good, Satellite Symposia and Practical Tutorials were very well attended.

Vienna as a location is very much appreciated.

Organiser was congratulated and praised for their work and collaborative spirit.

- **Exhibition**

Traffic in exhibition was overall very good. Exhibition location and its positioning on same level as lecture room was seen as a key component.

Some concerns were raised with regards to the sound levels in the Exhibition that should be kept to an acceptable level.

- **Practical Tutorials**

Practical Tutorials attendance was good for all industries.

Different models were put in place to manage registration (Pre-registration before the congress, via booth, overbooking, no registration).

Industries suggested that best practices be shared between organizers.

- **Organisation**

EuroEcho 2019 organisers were globally praised for their attitude and professional approach.

The fact that the same teams are managing the congress from one year to another is recognized as extremely important and a consensus was expressed to recognize Industry Services work and namely Gisela Valky-Pons.

6. Publications

6.1 First announcement

2500 ex. Displayed at over 30 events (ESC events and non-ESC events)

6.2 Electronic final programme

E-mail sent to 2474 people, from which 51 opened the Final Programme from the e-mail. However, the final programme was opened 1834 times in total (1606 unique opens). In 2018 it has been opened 2,349 times in total.

6.3 Printed programme at a glance

4,700 copies were printed. The programme-at-a-glance is meant to fit in the delegate badge holder. This document is distributed to delegates when entering the congress for the first time.

6.4 Congress News

Daily issues are distributed to delegates every morning during the congress and articles from this printed version are also shared via e-daily news by email.

- **Facts & Figures**

- 3,300 printed copies
- 17 industry inserts (5-8-4) and 3 ESC inserts
- 8 ESC adverts slots (2 per day)
- 20 articles (5 per edition)



Congress news	Format	Content	Audience	Amount
Printed edition – by day	A3 format /4 Pages + Industry adverts inserts	Scientific articles & Corporate and Industry Adverts	All onsite delegates	D1: 1,000 copies D2: 1,000 copies D3: 1,000 copies D4: 300 copies

6.5 Adverts for print

Adverts to promote the congress were created and disseminated to be used in:

- o EuroEcho-Imaging 2018 final programme
- o EuroEcho-Imaging 2018 Programme-at-a-glance
- o *European Heart Journal – Cardiovascular Imaging*: all issues from April to November
- o *European Heart Journal* 25/09 issue
- o *European Heart Journal – ACC* 2/10 issue
- o Journal of IAE (Indian Association of Echo): in two issues respectively during call for science and during call for registration.
- o Cardiac Rhythm News – October issue
- o Cardiovascular News – August issue
- o Agreement to have advert in ASE final programme and ASE Journal but not sure it has been followed up.
- o Advert to announce availability of resources on 365 has also been disseminated

6.6 Printed promotion at events

- o An A4 kakemono was displayed during EACVI representations (EACVI stands) at other events from December 2018 onwards.
- o Posters to promote the congress were designed and displayed at other EACVI congresses: EuroEcho-Imaging 2018, EuroCMR 2019.

7. Electronic Communication

7.1. Promotional e-campaigns

A. Dedicated e-campaigns

Dedicated promotional e-campaigns		Recipients	Open Rate	Click Rate
02/04/2019	dedicated e-campaign for the call for science	29 195	34,5%	2,8%
23/05/2019	dedicated e-campaign “only one week left to submit your science”	32 176	29,0%	2,9%
31/05/2019	dedicated e-campaign to EACVI Silver members only. Topic: extended deadline	3 664	31,2%	3,6%
03/07/2019	dedicated e-campaign call for late-breaking science	1 674	40,0%	3,8%
20/09/2019	dedicated e-campaign for early fee	36 451	29,3%	5,1%
24/10/2019	dedicated e-campaign for late fee	29 090	26,2%	4,2%

B. Promotion in newsletters

The congress, its deadlines and resources were also promoted in a number of newsletters.

	Bulletins and newsletters	Recipients	Open Rate	Click Rate
10/04/2019	My ESC news: call for science	59 522	17,6%	4,0%
06/05/2019	Imaging bulletin: submit your science by 31 May	35 608	25,6%	2,3%
20/05/2019	imaging bulletin: submit your science by 31 May	35 482	27,3%	4,3%
15/05/2019	My ESC news: call for science deadline	59 191	16,4%	3,5%
22/05/2019	My ESC news: call for science deadline	59 092	16,3%	3,2%
29/05/2019	My ESC news: call! for science deadline reminder	59 036	15,9%	3,3%
18/06/2019	Imaging bulletin focus on section dedicated to launch of advance programme. Link to marketing page	35 622	25,8%	2,8%
26/06/2019	My ESC news: advance programme available. Link to marketing page	59 265	15,4%	3,7%
01/07/2019	imaging bulletin: including link to marketing page	35 608	26,8%	3,1%
04/07/2019	EACVI members' newsletter: including link to marketing page	6 876	32,3%	8,6%
12/08/2019	Imaging bulletin with dynamic content to advertise childcare services to EACVI silver members only + marketing page shared again + level one certification in Echo + reminder about early fee deadline including banner	33 948	18,2%	3,4%
10/09/2019	Imaging bulletin: EuroEcho early fee	33 977	27,7%	3,0%
11/09/2019	My ESC news: EuroEcho early fee	55 171	18,0%	4,8%
18/09/2019	My ESC news: EuroEcho early fee	55 258	17,2%	3,6%
25/09/2019	My ESC news: EuroEcho early fee	55 289	16,7%	2,8%
13/09/2019	Acute bulletin: early reg	48 183	27,7%	3,5%
24/09/2019	EACVI Members newsletter early fee deadline	7 453	49,4%	12,7%
08/10/2019	Imaging bulletin: EuroEcho late fee	33 972	26,5%	3,9%
23/10/2019	My ESC news with late registration deadline	56 674	17,6%	3,8%
30/10/2019	My ESC news with late registration deadline	56 813	16,5%	3,1%
11/11/2019	Imaging bulletin: online registration deadline	34 184	17,5%	3,0%
13/11/2019	My ESC news with online reg deadline	57 119	18,2%	3,9%
20/11/2019	My ESC news with online reg deadline	57 329	18,3%	3,4%
27/11/2019	My ESC news with online reg deadline	57 402	17,3%	3,6%
19/11/2019	EACVI Members newsletter: online registration deadline	7 905	50,1%	6,4%
22/11/2019	Acute bulletin: ACCA joint sessions	48 298	22,6%	2,7%
26/11/2019	Bulletin council cardio-oncology: register	32 518	15,8%	3,0%
09/12/2019	Imaging bulletin with EuroEcho resources	34 256	27,9%	3,7%
11/12/2019	: My ESC news with EuroEcho resources	55 919	17,9%	3,8%
17/12/2019	: Acute bulletin with EuroEcho resources	48 293	22,8%	2,6%

7.2. Transactional e-mailing

Transactional emails		Recipients	Open Rate	Click Rate
19/12/2018	dedicated e-campaign for call for sessions for EuroEcho 2019	3 050	49,0%	6,4%
28/11/2019	attendance guide	2 473	58,5%	19,0%
04/12/2019	e-daily news day 1	9 071	43,2%	6,7%
05/12/2019	e-daily news day 2	9 041	36,5%	8,1%
06/12/2019	e-daily news day 3	9 088	34,1%	7,0%
07/12/2019	e-daily news day 4	9 015	33,4%	8,0%

7.3. Social media activity

Facebook – Top 5 posts


European Society of Cardiology

Published by Lavinia Baciu [?] · November 11, 2019 ·

A 39-year-old male with syncope and hypertension. Loud systolic murmur could be heard at the right upper-sternal border. Echocardiography showed extreme left ventricular hypertrophy, dynamic gradient (30-65mmHg) in the left ventricular outflow tract, and a hemodynamically significant valvular aortic stenosis (91/45mmHg). During the catheterisation a gap between the aortic arch and descending aorta could be observed.

The extreme hypertrophy was the result of the complex pathology: aortic filling defect, aortic stenosis and hypertension.

More unique cases at #EuroEcho 2019. Last chance to register online <http://bit.ly/2Q5DpUr>

#EACVI



46,306

People Reached

3,233

Engagements

Boost Post

20,075

People Reached

6,506

Engagements

Boost Post


232

20 Comments 58 Shares


4

1 Share


European Society of Cardiology

added a new photo to the album: #EuroEcho 2019 — with Mohammad Mostafa Ansari.

Published by Camille Esc [?] · December 7, 2019 at 9:52 AM ·



Total Impressions: 45217

Total Reach: 46306

Engagement users: 2405

Total post engagements: 3233

Reactions : 232

Total Impressions: 22626

Total Reach: 20075

Engagement users: 2811

Total post engagements : 6506

Reactions : 4


European Society of Cardiology

Published by Camille Esc [?] · December 13, 2019 at 2:18 PM ·

#EuroEcho 2019 might be over, but the science lives on!

You can now review the Congress resources on ESC 365 - abstracts, slide sets, videos & reports - free access for everyone for the next 3 months <http://bit.ly/2YHAdkf>

#EACVI



13,418
People Reached

394
Engagements

Boost Post

12,100
People Reached

394
Engagements

Boost Post

89


1 Comment 10 Shares

68

1 Comment 9 Shares

Total Impressions: 13337
Total Reach: 13418
Engagement users: 326
Total post engagements: 394
Reactions: 89

Total Impressions: 16558
Total Reach: 12100
Engagement users: 294
Total post engagements: 394
Reactions: 68


European Society of Cardiology

Published by Camille Esc [?] · September 18, 2019 ·


How are you getting ready for Vienna?

Register for #EuroEcho 2019, 4-7 December 2019, Vienna, Austria <https://bit.ly/2IU4Kf2>

Early registration only until 30 September.

New this year: level one certification in echocardiography.

#EACVI



8,889
People Reached

572
Engagements






Boost Post

82



6 Comments 6 Shares

Total Impressions: 13036
Total Reach: 8889
Engagement users: 391
Total post engagements: 572
Reactions: 82

• **Twitter** — Top 5 Tweets

	European Society of Cardiology @escardio · Dec 7 New calculators with selected parameters of echo for predicting sudden cardiac death. The Artificial Intelligence increase the accuracy in evaluation of EF even by the expert - Highlights by Maurizio Galderisi. #EuroEcho pic.twitter.com/IH0ayT31AI	19,016	461	2.4%
	European Society of Cardiology @escardio · Dec 3 Get ready for a great #EuroEcho journey. First team of ESC Twitter Ambassadors is ready to bring you the latest updates in #echofirst 👍 Start following the amazing @alessia_gimelli @drzgezdentok1 @rafavidalperez @hatemsoliman @JSabatino86 @HanCardiomd #cvimaging pic.twitter.com/IEQMMSnS8c	14,505	928	6.4%
	European Society of Cardiology @escardio · Dec 6 Friends, Sorry for any misunderstanding. @escardio can assure you that taking photos of slides during ESC congresses is encouraged for your live-tweeting, unless a presenter specifically requests otherwise at the start of the session. #EuroEcho pic.twitter.com/9Hp1qZ8jlZ	13,266	383	2.9%
	European Society of Cardiology @escardio · Dec 3 #EuroEcho final countdown 😊 The second team of ESC Twitter Ambassadors is ready to bring you the latest #echofirst news. Start following our extraordinaires @CiroSantoro17 @cmcsousa @TomazP3 @ElenaGalli10 @AlbertoAimo90 @isabel_azevedo_ #cardiacimaging #EACVI #cardiotwitter pic.twitter.com/yGob8nxwpZ	12,572	594	4.7%
	European Society of Cardiology @escardio · Dec 6 Virtual reality: from teaching to review structural heart disease. Live demo by Bernhard Mumm at #EuroEcho pic.twitter.com/Ej0tEtxyo1	20,954	606	2.9%

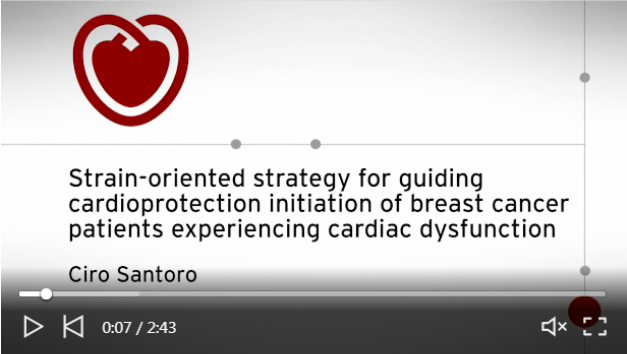
- **Linkedin – Top posts**

 **European Society of Cardiology**
44,156 followers
3w • 



Strain-oriented strategy for guiding cardioprotection initiation of breast cancer patients experiencing cardiac dysfunction presented by **Ciro Santoro**, Italy.

Get the full ESC TV coverage from **#EuroEcho** here <http://tiny.cc/wf0bhaz>

#EACVI #ESCCardioOnco #CardioOnco #cardiology




68 • 2 Comments

 **European Society of Cardiology**
44,158 followers
3mo • Edited • 

Now you know that childcare services are available onsite at **#EuroEcho** 2019 this December. Seats are limited.

So no more excuses 😊 Register now for the leading echocardiography congress <https://bit.ly/32e4xEe>

#cvmaging #EACVI #cardiologycongress #childcare





51 • 1 Comment

Total impression post: 7,228
Engagement rate: 2.02%
Video views: 1,572
Reactions: 68

Total impression post: 7,062
Engagement rate: 1,9%
Reactions: 51

- **Instagram**



 **europeansocietyofcardiology** ...

 **europeansocietyofcardiology**
#EuroEcho 2019 might be over, but the science lives on!
You can now review the Congress resources on ESC 365 - abstracts, slide sets, videos & reports - free access for everyone for the next 3 months - Link available in our story.

#instacardio #instadoctor #cardioquiz

🤍 💬 📌

Aimé par **meierpas** et autres personnes

13 DÉCEMBRE 2019

Total post impressions: 15,050
Engagement users: 12,868
Reactions: 264



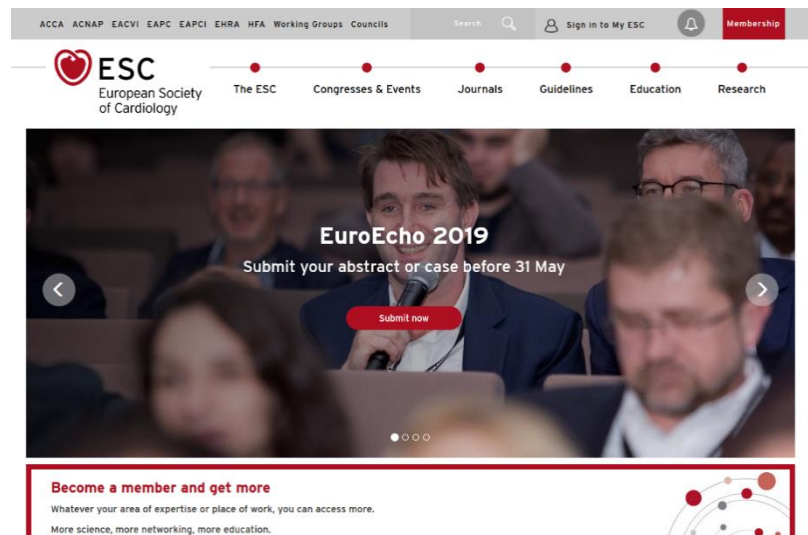
Total post impressions: 18,404
Engagement users: 11,255
Reactions: 441



Total post impressions: 19,534
Engagement users: 11,900
Reactions: 280

7.4. Electronic banners

- **Escardio website based on congress visual**
 - *European Heart Journal – Cardiovascular Imaging* landing page
 - ❖ 'Register by 30 September' banner visible on EHJ-CI homepage (OUP website) from 1 June to 30 September
 - ❖ 'Register now' banner visible on EHJ-CI homepage (OUP website) from 1 October to 4 December
 - ❖ Resources on 365 banner
 - DI Europe: 3 call to action depending on period 1/04 to 31/05 then 1/06 to 30/09 then 1/10 to congress.
 - EHJ-CI e-tocs: Sent respectively on 24/04, 23/10 and 21/11.
 - EACVI newsletters, Imaging bulletins, My ESC news
- **Escardio website homepage slider call for science, certification exams during congress, resources**

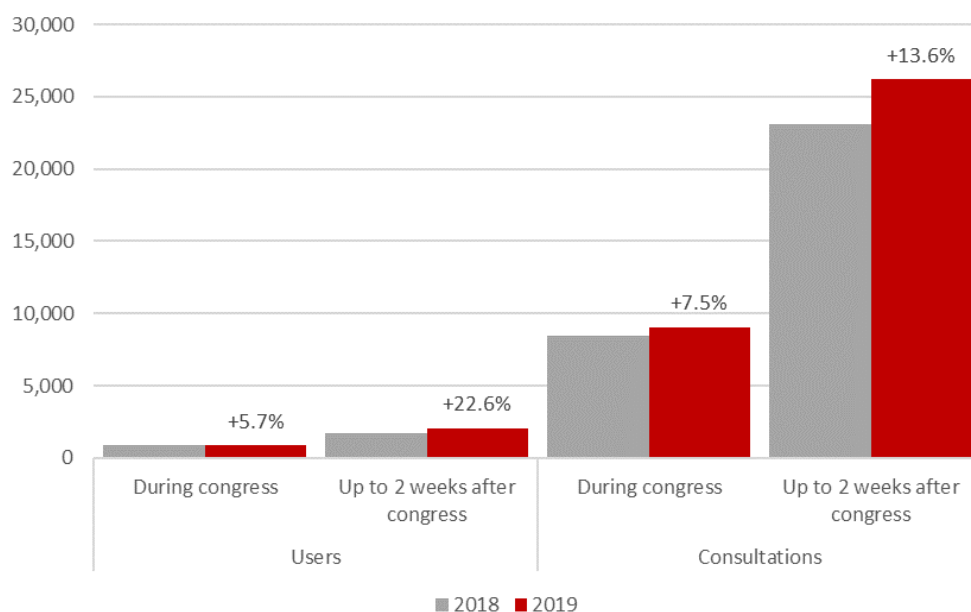


A. ESC 365 Stats

Post EuroEcho 2019, a total of 2,707 new EuroEcho scientific resources were uploaded on ESC 365. These are free to all for 3 months post-congress:

- 1,201 Abstracts
 - 985 Slidesets
 - 516 Videos
 - 5 ESC TV Videos
- **During EuroEcho 2019:**
 - **910 users**
 - **Consulted 9,058 scientific resources**
from EuroEcho 2019 on ESC 365 (resources maybe consulted by several users).
- **This is an improvement of:**
 - **+5.7% in the number of users**
 - **+7.5% in the number of consultations**
compared to the consultations of EuroEcho 2018 scientific resources during EuroEcho 2018.
- **Including the 2 weeks following EuroEcho 2019:**
 - **2,075 users**
 - **Consulted 26,231 scientific resources**
from EuroEcho 2019 on ESC 365.
- **This is an improvement of:**
 - **+22.6% in the number of users**
 - **+13.6% in the number of consultations**
compared to the consultations of EuroEcho 2018 scientific resources in the weeks following EuroEcho 2018.

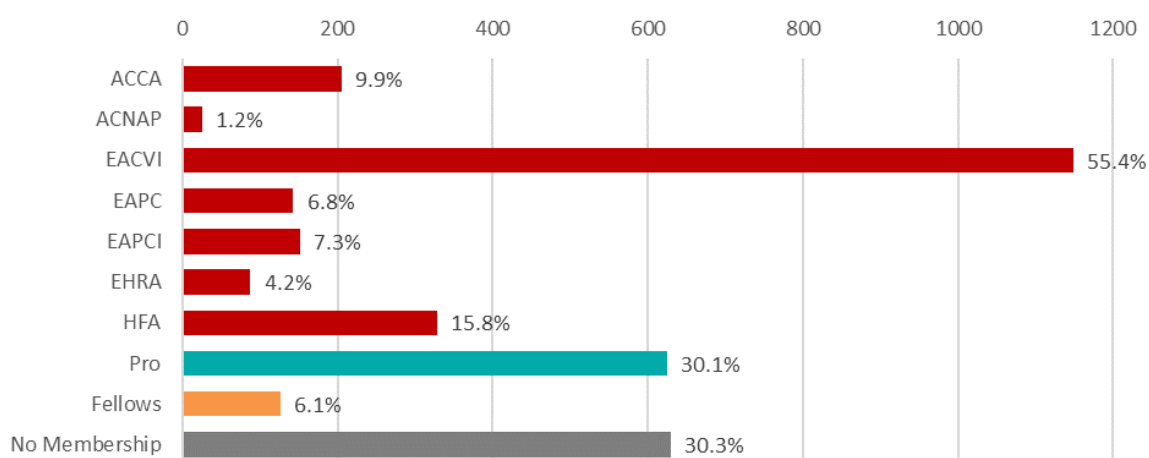
EuroEcho Congress Resources 2019 vs. 2018 ESC 365 Users and Consultations



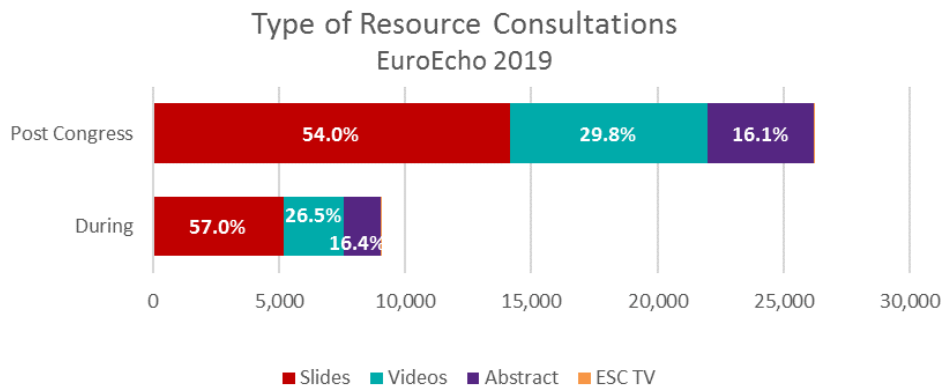
	Users		Consultations	
	During congress	Congress + 2 weeks post congress	During congress	Congress + 2 weeks post congress
2018	861	1,692	8,429	23,089
2019	910	2,075	9,058	26,231
Growth	+5.7%	+22.6%	+7.5%	+13.6%

Over **69% of users** consulting EuroEcho 2019 scientific resources (during EuroEcho 2019 and the 2 following weeks) have an **ESC membership** (ESC Pro, ESC Associations, or Fellows) with **over 55% of users** being **EACVI members**.

ESC Membership of ESC 365 Users Consulting EuroEcho 2019 resources up to 2 weeks post congress

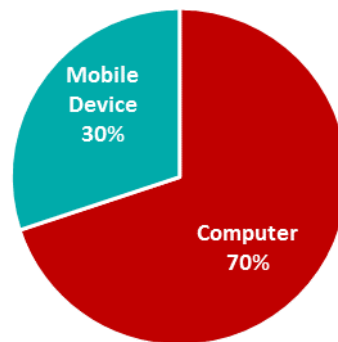


Over half of resource consultations (both during and post-congress) were of slide sets, with the second most common being videos of sessions.



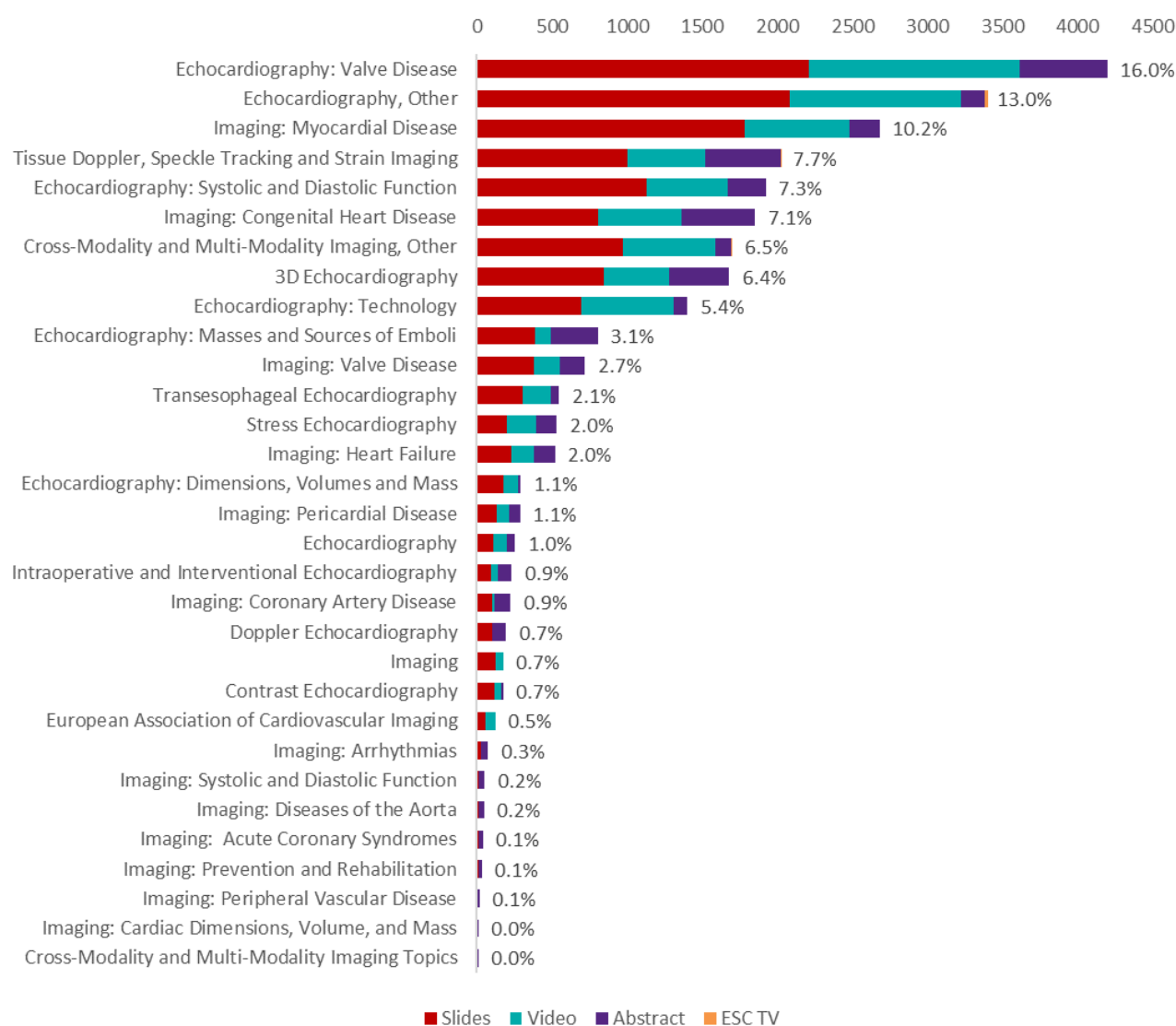
Most consultations were made using computers or laptops (70%) with a slightly increase of consultations made on mobile devices: 30% (versus 28% in 2018)

Method of Consultation



The most common topic of scientific resources consulted during this period was '*Echocardiography: Valve Disease*' with 16% of all resources consulted covering this topic. '*Echocardiography, Other*' (13%) and '*Imaging: Myocardial Disease*' (10.2%) were the second and third most consulted topics.

Scientific Resources by Topic EuroEcho 2019 up to 2 weeks post congress

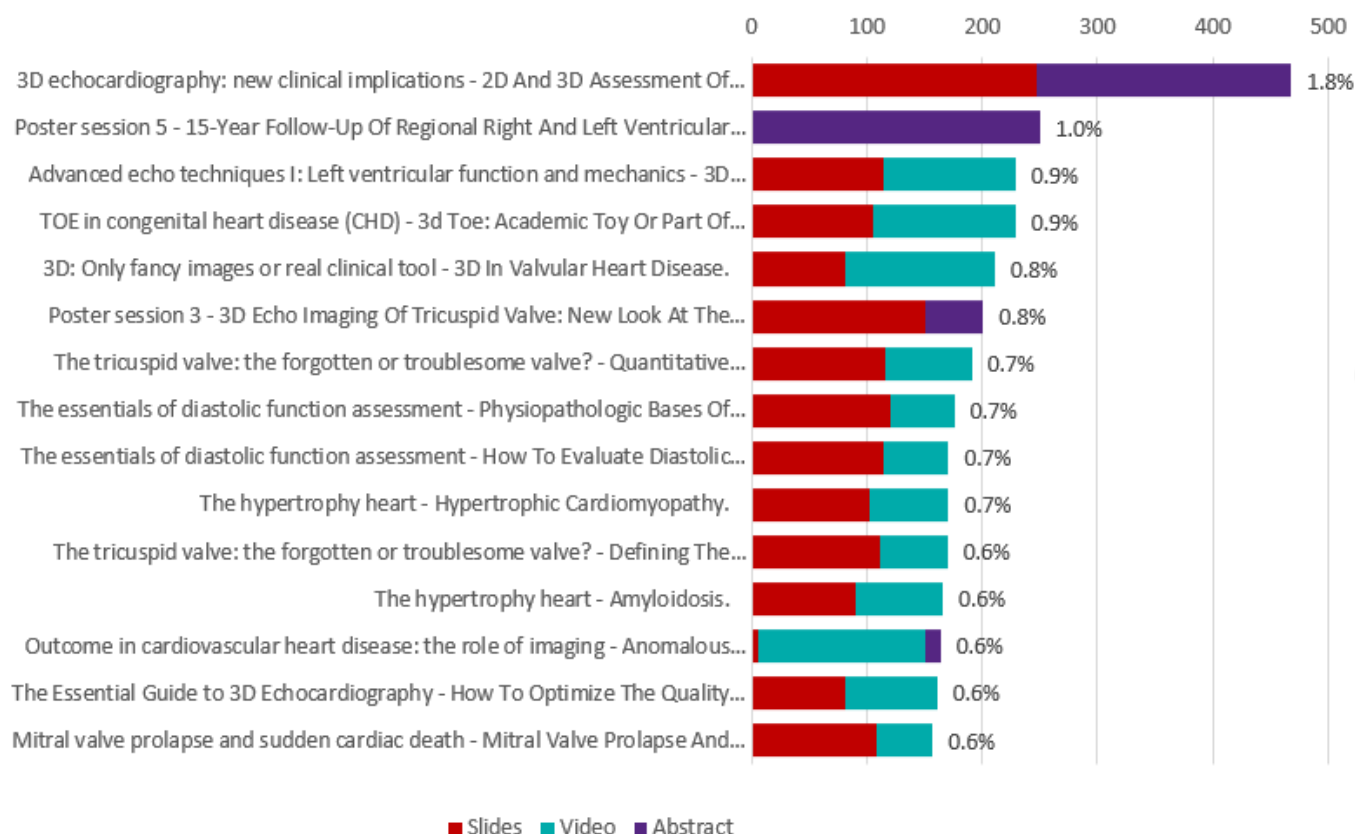


The most commonly consulted **presentation** (a presentation can have several resources) from EuroEcho 2019 was *'3D echocardiography: new clinical implications - 2D And 3D Assessment Of The Left Ventricle Volume And Ejection Fraction In A General Population'* with 468 views (1.8% of all resource consultation).

The single most consulted **resource** was the abstract of *'Poster session 5 - 15-Year Follow-Up Of Regional Right And Left Ventricular Function After The Senning Operation: A Colour-Doppler Myocardial Imaging Study'* which alone received 250 consultations (1% of all resource consultations of EuroEcho 2019 resources).

Top 15 Most consulted scientific resources from EuroEcho 2019

Up to 2 weeks post-congress



B. ESC 365 on-site promotion

- 3 ESC 365 computers on the EACVI – ESC stand within the exhibition where demonstrations were performed
- 5 ESC 365 computers at a dedicated location within a central location of the congress centre for delegates to freely consult the resources online of the presentations they missed or wanted to replay
- 2 major on-site promotional banners
- Regular communications in the final programme, intersession slideshow and congress news.
- Promotion at the heart of the EACVI-ESC stand



Figure 1: ESC 365 live demonstrations on the EACVI - ESC stand to highlight the value of EACVI membership



Figure 2: 5 dedicated ESC 365 computers within the EuroEcho 2019 congress centre



Figure 3: ESC 365 on-site advertisement

7.6. ESC TV

A. Project presentation

The interviews were recorded on one day during EuroEcho 2019 in Vienna, Austria. Interview format was speech to camera.


Overall, a total of five videos were recorded and released on 6 December. Interviews were published on YouTube (ESC TV @ EuroEcho 2019 Playlist), Escardio.org (YouTube playlist was used until mid-December) and ESC 365.

A 20-minute slot was booked for each faculty for the “speech to camera” format: briefing and preparation, set up and recording of the interview.

B. Video dissemination



The videos were posted on the [ESC TV @EuroEcho 2019 playlist](#) on YouTube and on the [dedicated page on ESC website](#).






The videos are also available on [ESC 365](#)



ESC TV at EuroEcho 2019
5 videos • 20 views • Last updated on 6 Dec 2019

Headline news on cardiovascular advances from EuroEcho 2019, 4-7 Dec, Vienna - Austria
<https://www.escardio.org/Congresses-&...>

 European Society of Cardiology 

- **ESC TV at EE 2019 - How to decide the best cardiac imaging in individual patient with HCM**
European Society of Cardiology 6:38
- **ESC TV at EE 2019 - AI and echocardiography: a training model using real world data**
European Society of Cardiology 2:36
- **ESC TV at EE 2019 - Myocardial work by pressure strain loops tells me about responsiveness to CRT**
European Society of Cardiology 1:25
- **ESC TV at EE 2019 - Using echo to support management of diabetic patients**
European Society of Cardiology 3:23
- **ESC TV at EE 2019 - Guiding cardioprotection in breast cancer patients: the use of strain**
European Society of Cardiology 2:44

ESC TV

[ESC Congress 2019](#)

[Heart Failure 2019](#)

[EuroCMR 2019](#)

[EuroPrevent 2019](#)

[EHRA 2019](#)

[ACC.19](#)

[AHA 2018](#)

EuroEcho 2019

ESC TV @ EuroEcho 2019 - Vienna, Austria

Headline news on cardiovascular advances
All videos are also available on ESC 365



Myocardial work by pressure strain loops tells me about resp[...]



Echo to guide therapy.



How to decide the best cardiac imaging in individual patient[...]



Artificial intelligence (AI) and echocardiography: a training[...]



Strain-oriented strategy for guiding cardioprotection initial[...]

C. ESC TV analytics¹ Analysed period: 6 December (videos were published on that day) until 21 December included.

Video Title	Interviewee	Video length	Published on	YouTube channel			Facebook	Twitter	LinkedIn	ESC website			ESC 365
				Average time watched	Average percentage watched	No. of views				Average time watched	Average percentage watched	No. of views	No. of views
How to decide the best cardiac imaging in individual patient with HCM	Nuno Cardim	06:38	06 December 2019	02:36	39%	165	-	-	-	-	-	5	4
Guiding cardioprotection in breast cancer patients: the use of strain	Ciro Santoro	02:44	06 December 2019	01:18	48%	499	Total Reach: 7,519 Total Impressions: 4,894 Engaged Users: 136 Views: 4,887	Impressions: 4,758 Engagements: 73 Engagement rate: 1.5%	Views: 1,614 Impressions: 7,378 Reactions: 68 Engagement rate: 2,01%	-	-	3	4
AI and echocardiography: a training model using real world data	Geoffrey Strange	02:36	06 December 2019	01:12	46%	146	Total Reach: 4,764 Total Impressions: 7,944 Engaged Users: 188 Views: 3,780	Impressions: 4,276 Engagements: 45 Engagement rate: 1.1%	Views: Link to YouTube Impressions: 5,333 Reactions: 26 Engagement rate: 2.21%	-	-	1	14
Using echo to support management of diabetic patients	Thomas Marwick	03:23	06 December 2019	01:54	56%	111	-	-	-	-	-	2	3
Myocardial work by pressure strain loops tells me about responsiveness to CRT	Otto Smiseth	01:25	06 December 2019	00:42	49%	102	-	-	-	-	-	0	6
TOTAL				01:32	48%	1,023	Average engaged users: 162 Views: 8,867	Average engagement rate: 1.3%	Average engaged rate: 2.11% Views: 1,614	-	-	11	31

**Nuno Cardim's video was the first video published and the first one displayed on the YouTube playlist*

¹ Number of views on Facebook: count starts when a user watches **at least 3s** of the video

² ESC 365: ESC TV videos are available to members only

³ Number of views on YouTube: count starts when a user watches **at least 30s** of the video

⁴ Number of views on ESC Website: count starts when a user presses "play" on the video

N.B The links used on ESC TV dedicated webpage were YouTube links during the congress and the analysed period. YouTube links are used on Twitter.

- Metrics definition

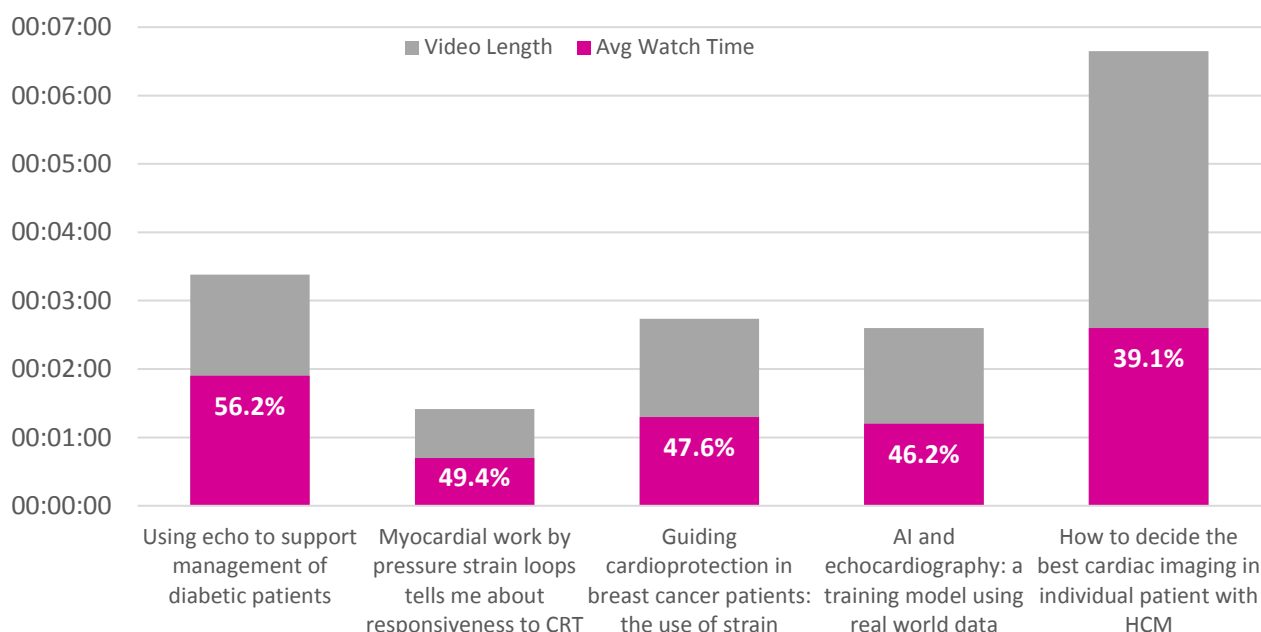
- Twitter

- Impressions: Total times a post was served to newsfeeds.
- Engagements: Total number of times a user has interacted with a Tweet; this includes all clicks anywhere on the Tweet (including hashtags, links, avatar, username, and Tweet expansion), retweets, replies, follows, and likes.
- Engagement rate: The number of engagements (clicks, retweets, replies, follows and likes) divided by the total number of actual impressions.

- Facebook, LinkedIn, Instagram

- Total Reach: The number of people who were served our post in their newsfeed.
- Total Impressions: The number of times a post was seen. This includes multiple users.
- Engaged Users: Unique users interacting with the post (sharing, commenting etc).

- Graphic representation of the video views on Youtube

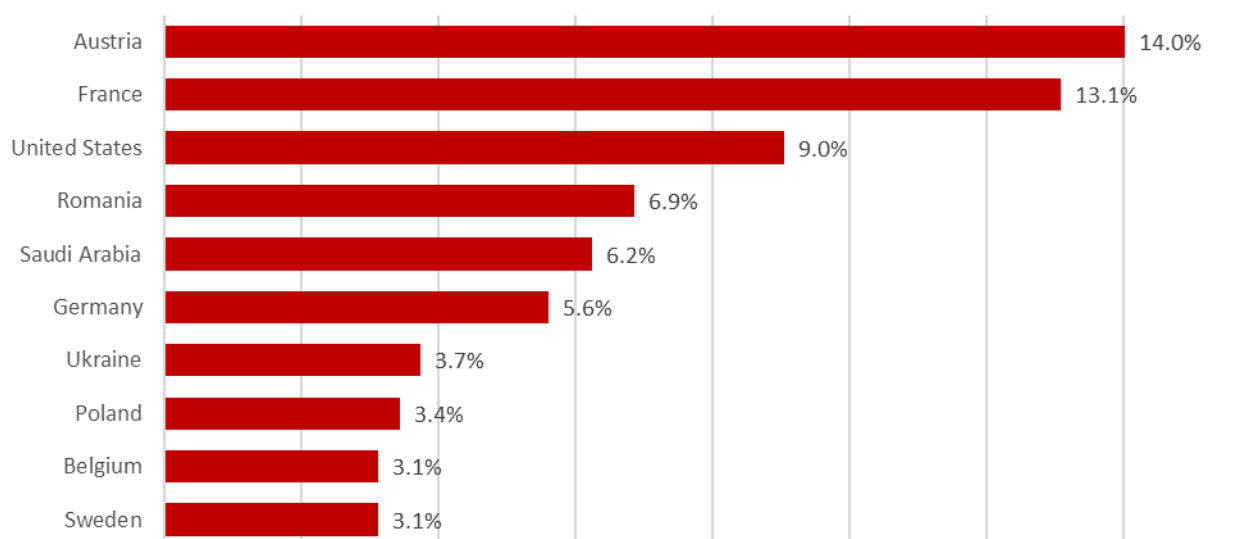


- Total views over time on Youtube channel



- Top 10 countries accessing ESC TV dedicated webpage

Top 10 Countries
(% of total page views on ESC TV @EuroEcho on escardio.org)



N.B. This graphic represents only a percentage of the actual viewers as YouTube does have access to the location for all users.

- ESV TV @EuroEcho 2019 promotion

E-Campaigns	Link to	Sending date	Number of recipients	Open rate	Overall click rate
Congress e-campaign – day 4	Dedicated webpage	7 Dec	9,015	33%	8%
Cardiovascular Imaging – Bulletin of Events, Science & Education	Dedicated webpage	9 Dec	34,256	28%	4%

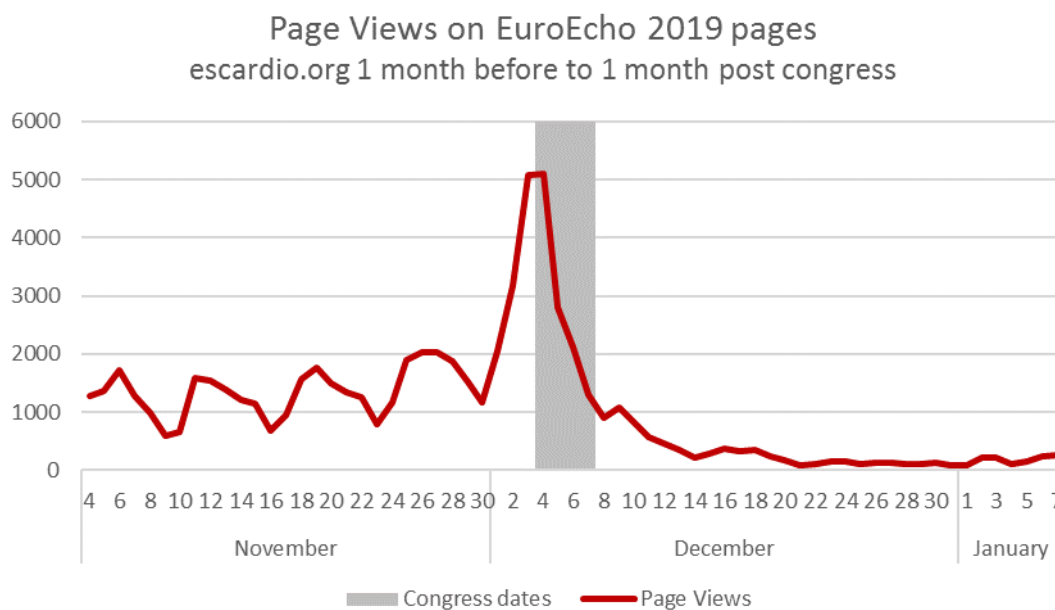
7.7. Web stats

Total page views during Congress: 11,304 (2018: 16,809)

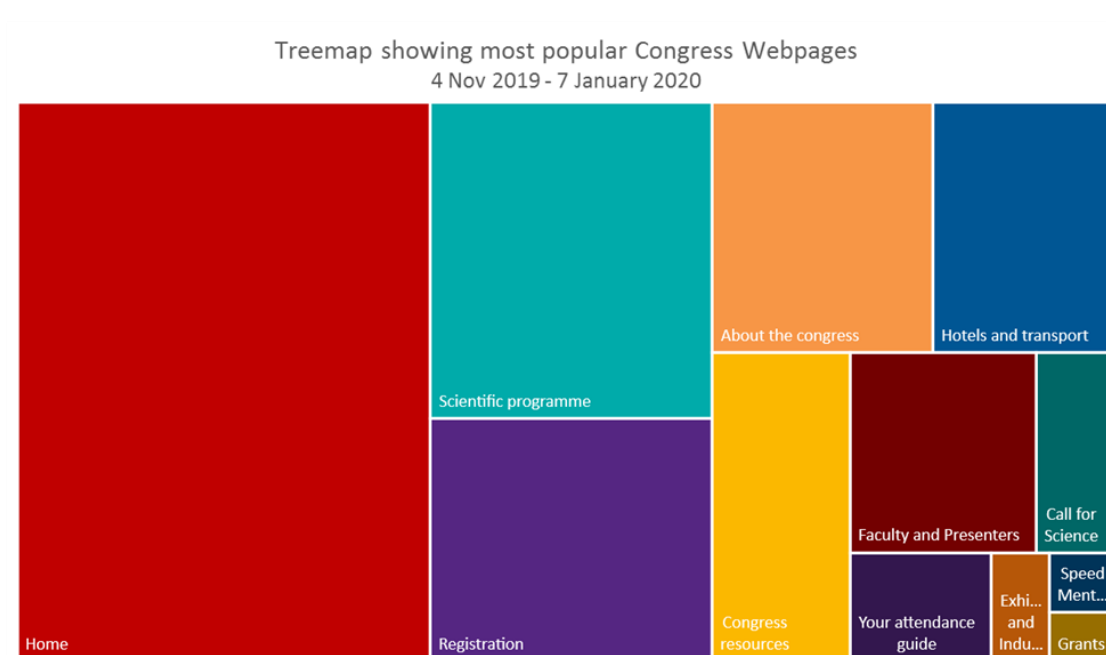
Total Unique page views during Congress: 8,935 (2018: 13,414)

Avg. time on page: 01:38 (2018: 01:58)

The chart below shows the cumulative views of EuroEcho Congress content at <https://www.escardio.org/Congresses-&Events/EuroEcho> in the month leading up to Congress, during Congress, and in the month following Congress. 17% of the page views in this period were made during the Congress dates.

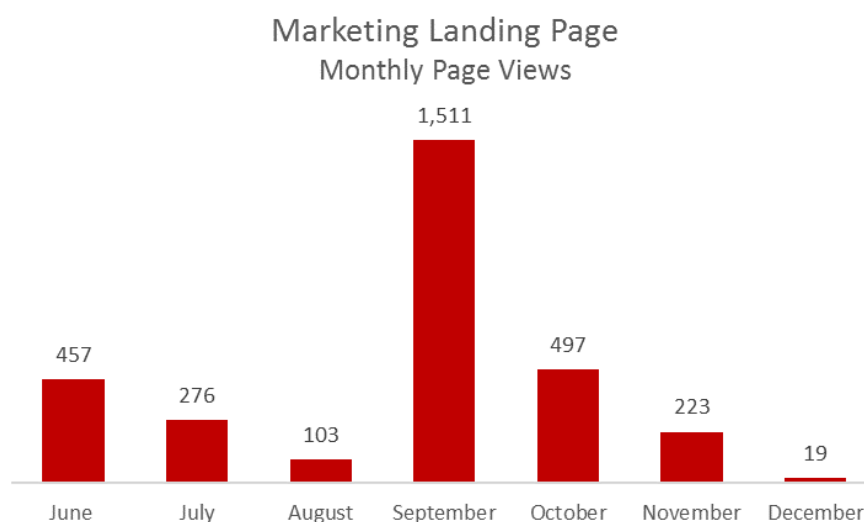


The most commonly viewed pages were the homepage, Scientific Programme, and Registration pages which between them accounted for almost two thirds (63.3%) of all EuroEcho 2019 page views.



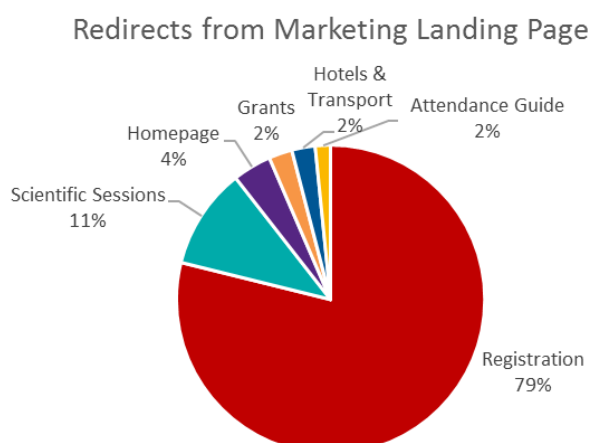
Page	Views	% of total
Home	25,023	37.6%
Scientific programme	9,656	14.5%
Registration	7,400	11.1%
About the congress	5,976	9.0%
Hotels and transport	4,948	7.4%
Congress resources	4,610	6.9%
Faculty and Presenters	4,045	6.1%
Call for Science	1,723	2.6%
Your attendance guide	1,649	2.5%
Exhibition and Industry	688	1.0%
Speed Mentoring	419	0.6%
Grants	348	0.5%

In 2019, we also published a marketing landing page at <https://www.escardio.org/Marketing/EuroEcho2019> which received over 3,000 page views itself since its launch in June 2019



The Marketing landing page received a total of 3,086-page views from June to December 2019; 2,525 unique page views and users on average spent 1:39 on the page.

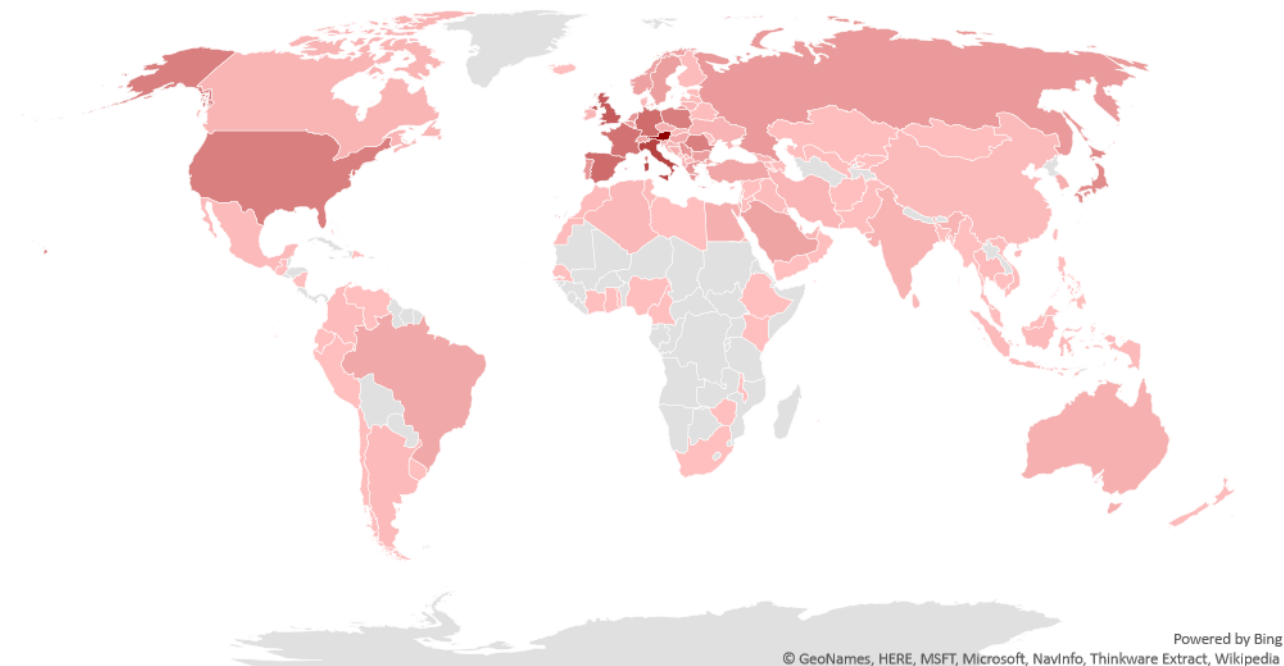
The marketing landing page directed over 1,300-page views to the main Congress pages, with the vast majority of these views (79%) of the Registration page.



The Congress webpages were viewed by visitors from 119 countries.

81.4% of visits came from NCS countries, with 14.4% coming from ACS countries and the remaining 2.2% coming from 'rest of world' countries

Location of EuroEcho Congress Pages Visitors 4 November 2019 - 7 January 2020



Austria unsurprisingly tops the list of countries with the most visits, with 11% of all page views coming from the Congress host country. It is encouraging to see 2 countries (USA and Japan) in the top 10 from outside the ESC member countries, and shows we're becoming more successful at reaching out to those strategically targeted countries

Country	Visitors	% of total
Austria	7,177	11.0%
Italy	4,710	7.2%
United Kingdom	3,796	5.8%
Spain	3,150	4.8%
Germany	3,124	4.8%
France	2,911	4.5%
Poland	2,455	3.8%
United States	2,400	3.7%
Romania	2,356	3.6%
Japan	1,941	3.0%

8. Mobile App

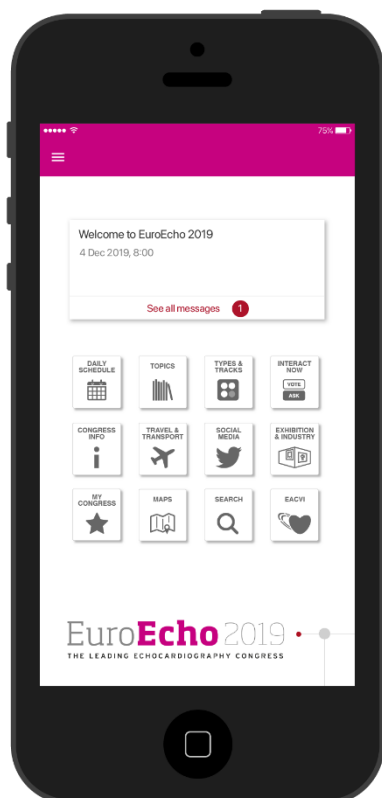
8.1 Facts & Figures

- Key figures on EuroEcho 2019 module
- **4,129 downloads** (+14% compared to 2018) – 4,095 delegates (-3% compared to 2018)
- 65% downloads on iOS
- 72% downloads done before congress day 1
- Search: mostly used to search for speakers/Faculty, then for presentation info
- Major actions done by users
 - Access the Daily Schedule (87%)
 - Access the Latest Messages section (71%)
 - Access the Topics/Types & Tracks lists (54%)
- New feature in 2019: Ask for an appointment: ability to send an email to an exhibitor to request for an appointment
- **8,108** resources accessed from 22 June until 21 December
- **2,216** resources accessed on 7 December
- **794** unique resources accessed
- **348** unique My ESC Account holders accessed the ESC 365 resources via the mobile app for an average of **17** resources – median is at 5.

8.2 Project Description

- EuroEcho 2019 Module

The EuroEcho 2019 module (available for iPhones, Android phones, iPad & Android tablets) was made available in ESC Congresses app on **18 June** with a light version (Advance Programme) and was available on full version (with information on Exhibition & Industry) on **10 October**. The mobile app contained:



- The up-to-date scientific programme of the Congress (including abstracts & learning objectives)
- Congress floor plans (congress floor plan overview and Exhibition map)
- Congress general information
- EACVI on-site activities
- An easy-to-use search function which enables users to search for sessions, posters, speakers, exhibitors and general info
- Access to ESC 365 resources (slides, videos, abstracts and ESC TV interviews) and opportunity to receive a link to the resources by email after the congress
- Vote and ask a question feature during Mobile App Interactive Sessions
- Notes section on sessions/presentations
- Personal schedule planner with the ability to select sessions of interest and synchronise the planner with the online Scientific Programme & Planner (SP&P) as well as between devices
- Dedicated section for personal appointments from My Programme with synchronisation between devices
- Social media content sharing tools via Facebook, Twitter and LinkedIn as well as via email
- Stand-alone app features: once downloaded, no need to connect to the internet to access all congress info

NEW in 2019:

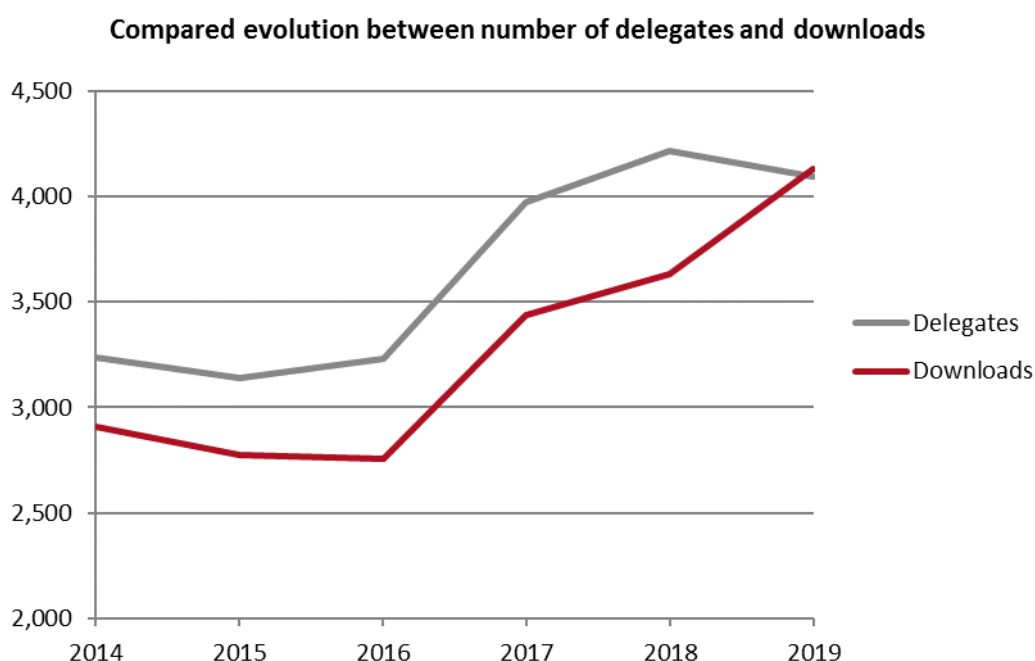
- Ask for an appointment: ability to send an email to an exhibitor to request for an appointment

8.3 Module figures

A. General Metrics

The congress app was downloaded **4,129 times** (+14% compared to 2018, for the same period – from mobile launch until mid-December).

4,095 participants attended EuroEcho 2019 (-3% compared to 2018, including exhibitors and press).

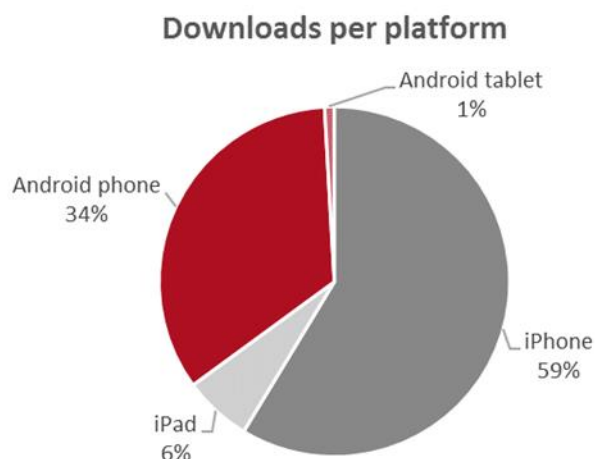


The number of downloads exceeds the number of delegates: it can be explained by the fact that users are installing the app on different devices.

B. Downloads per platform

iOS devices are the most widely used with 2,682 downloads, representing **65% of overall downloads** (67% in 2018). The iOS share is stable compared to 2018.

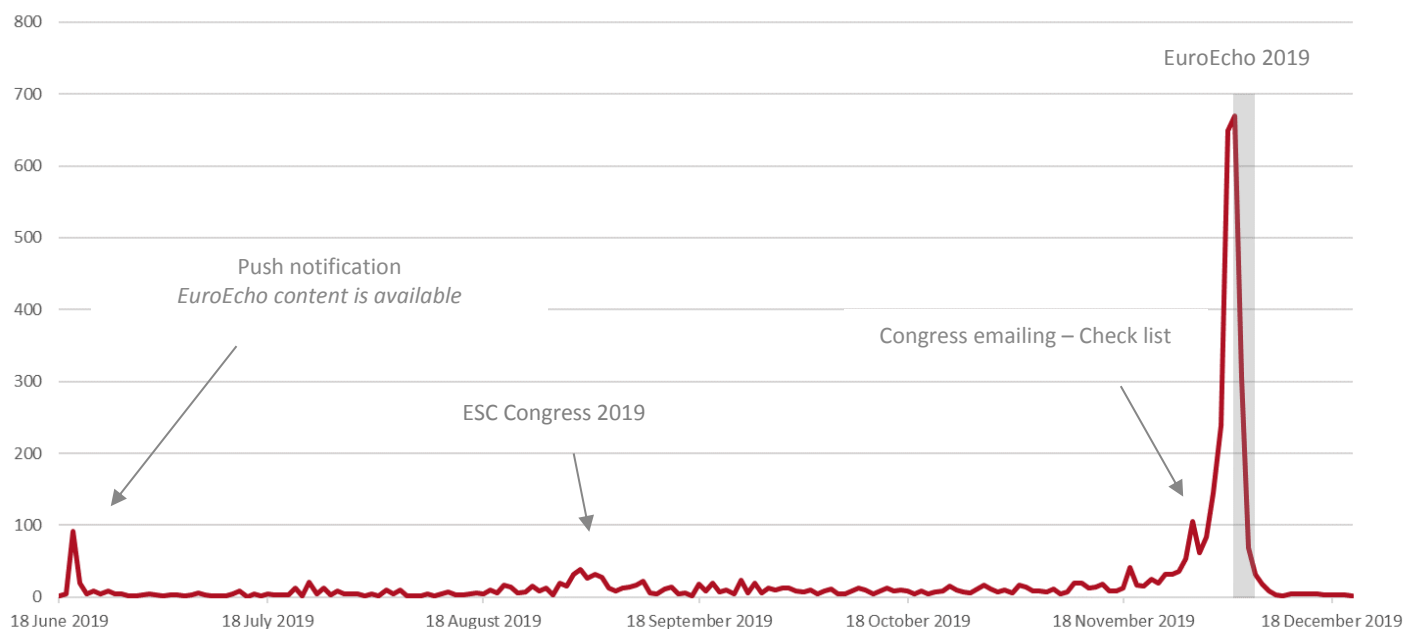
Downloads per platform	
iOS	2,682
Android	1,448
TOTAL	4,129



C. Downloads per day

The app was launched for ASE Congress in June and promoted weeks prior to the congress to encourage downloads before the event (to limit Wi-Fi access on site) and to allow participants to prepare their congress programme via the app.

- Downloads per day



- Downloads per period

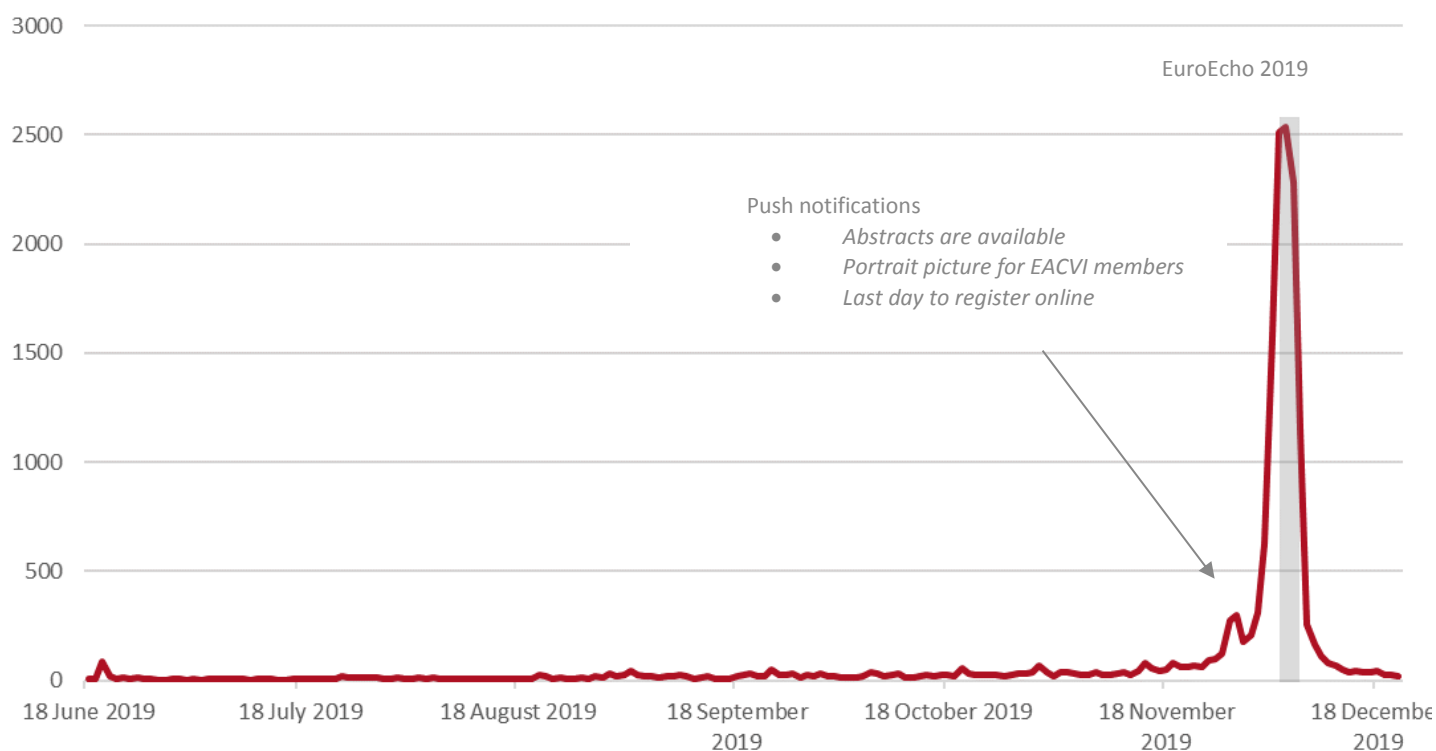
Period	2019		2018	
	No. of downloads ↓	Distribution	No. of downloads	Distribution
Pre-Congress	2,988	72%	2,650	73%
Congress Day 1	670	16%	571	16%
Congress Day 2	306	7%	270	7%
Congress Day 3	68	2%	77	2%
Congress Day 4	31	1%	21	1%
Post-Congress	66	2%	44	1%
TOTAL	4,129	100	3,633	100

More than 72% of downloads were completed before the congress has started. Note: 1,283 downloads were completed between 28 Nov and 3 Dec representing 31% of the congress downloads and 43 of pre-congress downloads. Hence, even if 72% of the downloads took place before the congress, almost half of them are completed on the week before the congress.

D. Users per day

This graph shows the number of active devices connected to EuroEcho 2019 module. One user = one device: if you use the app on your iPad and your iPhone on the same day, you will be counted twice. A user is only counted if he/she undertakes an action within the app (app launch, click of a button, access a map...)

- **Unique users**



On the most intensive day – Thursday 5 Dec – the app was used on 2,538 devices, representing 61% of downloads (70% in 2018).

E. User behaviour

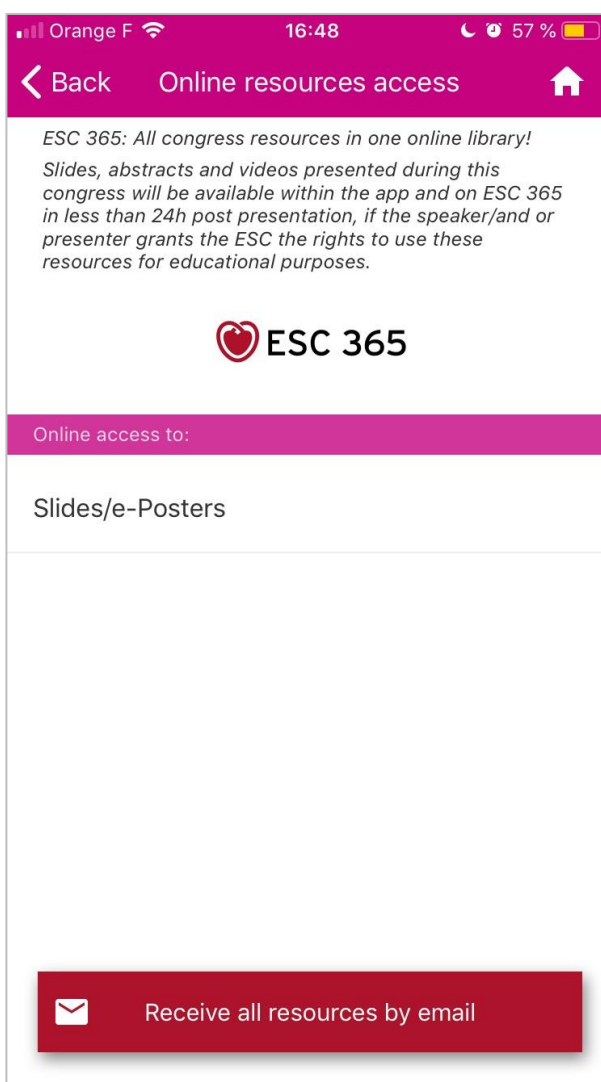
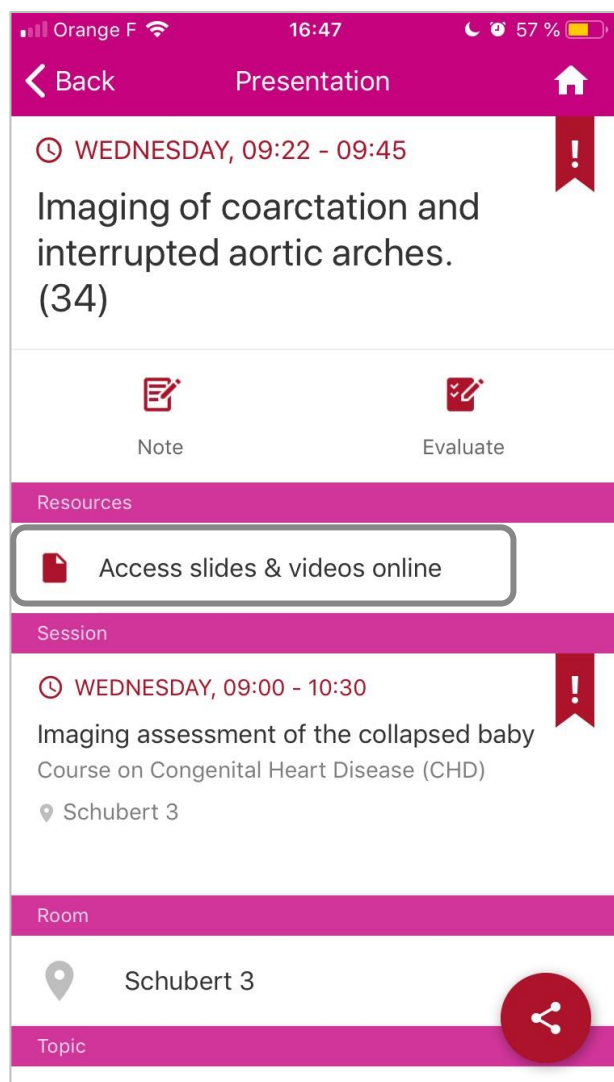
- Overall functionalities

The three most used functionalities are (**Error! Reference source not found.** for more details)

- Access the Daily Schedule (87%)
- Access the Latest Messages section (71%)
- Access the Topics/Types & Tracks lists (54%)

- Access the congress resources via the mobile app

Since ESC Congress 2018 all congress resources from all congresses are available on ESC 365. Therefore, it is now possible for all congress app users to access congress resources from the mobile app for sub-specialty congresses.



In total, there were²:

- **8,108** resources accessed from 22 June until 21 December
- **2,216** resources accessed on 7 December
- **794** unique resources accessed
- **348** unique My ESC Account holders accessed the ESC 365 resources via the mobile app for an average of **17** resources – median is at 5.

Note: Resources were made available within 24h of a presentation being given subject to speaker/presenter authorisation.

- The top 10 of most requested presentations:

	Presentation title	Related session	No. times accessed
1	Cardiac tamponade and constrictive pericarditis.	Non-invasive hemodynamic assessment in different contexts	105
2	Quantitation of mixed disease: AR+AS.	Imaging in aortic regurgitation	70
3	Common mistakes and pitfalls with 2D echocardiography.	Echocardiography essentials	67
4	Degenerative mitral regurgitation. Grading and prognosis.	Mitral valve prolapse and sudden cardiac death	64
5	Tricuspid regurgitation	Valvular heart disease 2	63
6	Physiopathologic bases of diastolic function and filling pressures.	The essentials of diastolic function assessment	63
7	Mitral valve prolapse, epidemiology and pathophysiology.	Mitral valve prolapse and sudden cardiac death	55
8	Valvular heart disease.	EuroEcho 2019 highlights	49
9	How to evaluate diastolic function in patients with normal EF.	The essentials of diastolic function assessment	48
10	Secondary mitral regurgitation	Valvular heart disease 2	48

- Mobile App – Vote & Ask a question session

A quicker access to the vote functionality was implemented in 2017. Multiple choice answers are accessible with two clicks from the home menu (“Interact Now” button). The user is also able to send his/her question in three clicks.

There were 6 “Mobile App – Vote and Ask a question” and 121 “Mobile App – Ask a question” sessions.

- Total number of votes: 2,329
- Maximum number of votes per session: 1,736 (“Interactive Cardiac Imaging Quiz: the most challenging cases from everyday clinical practice”) with a maximum of 162 votes received for one question - 15 votes launched during that session
- Maximum number of votes for one question: 162 (“Interactive Cardiac Imaging Quiz: the most challenging cases from everyday clinical practice”)
- Total number of questions sent: 322
- Maximum number of questions asked per session: 28 (“Mitral valve prolapse and sudden cardiac death - Joint session with the American Society of Echocardiography (ASE)”)
- Average number of questions asked per session: 4

This functionality is more and more often used during congresses and delegates are keen on using it.

- Evaluation from functionality

² Data analysis from 6 December until 10 January64

The users have the possibility to evaluate the sessions and the presentations – possibility to rate (between 1 and 5, 5 being the best rate) and send their comments.

	Sessions (all)	Presentations (all)
Rate average	4.3	4.3
Rate median	5	5
Number of unique items evaluated	88	289
Total number of evaluations	133	461
Number of comments sent	16	44

Most of the comments received were very positive.

- User behaviour regarding sessions
 - The top 10 most **popular sessions**

Session name	No. Views
Valvular heart disease 2	3,341
Interactive Cardiac Imaging Quiz: the most challenging cases from everyday clinical practice	2,649
Advanced echo techniques I: Left ventricular function and mechanics	2,349
Echocardiography essentials	2,306
Valvular heart disease 1: tips and pitfalls in aortic valve diseases	2,245
State-of-the-art Chamber Quantification	2,229
The Essential Guide to 3D Echocardiography	2,228
Mitral valve prolapse and sudden cardiac death	2,180
EuroEcho Lecture	2,030
How to interpret a stress echocardiography	2,016

- The top 10 **favourite sessions** (tagged as “Favourite” ★ by the users)

Session name	No. of times tagged as favourite
Valvular heart disease 2	893
The Essential Guide to 3D Echocardiography	811
Valvular heart disease 1: tips and pitfalls in aortic valve diseases	805
How to interpret a stress echocardiography	792
How to perform a 3D TOE	782

Session name	No. of times tagged as favourite
Mitral valve prolapse and sudden cardiac death	732
Speckle Tracking and strain, where is it useful?	727
The essentials of diastolic function assessment	726
Mitral to tricuspid regurgitation: why the echocardiographer is key in improving patient prognosis	705
Cardiac imaging in cardiac oncology	679

- User behavior regarding exhibitors
 - Top ten - ranking of **popular exhibitors**

Exhibitor name	No. of views
European Association of Cardiovascular Imaging (EACVI) - European Society of Cardiology (ESC)	1,543
GE HEALTHCARE	188
Philips	151
American Society of Echocardiography	101
TOMTEC Imaging Systems GmbH	85
3D Systems Simbionix	80
Bracco	53
Canon Medical Systems Europe	52
Siemens Healthineers	47
Intelligent Ultrasound (HeartWorks)	41

- Top ten - ranking of **favourite exhibitors** (tagged as favourite★ by the users)

Exhibitor name	No. of times tagged as favourite
European Association of Cardiovascular Imaging (EACVI) - European Society of Cardiology (ESC)	79
Philips	5
American Society of Echocardiography	5
Canon Medical Systems Europe	5
GE HEALTHCARE	4
Siemens Healthineers	3
Edwards Lifesciences	3
TOMTEC Imaging Systems GmbH	2
Hitachi Medical Systems Europe	2
Abbott	2

- User behaviour regarding home menu buttons

Overview

Rank	Name	Views ↓	No. of users	Views per user	% of users
1	Daily Schedule	54,629	3,284	16.6	87
2	My Congress	23,576	1,922	12.3	51
3	Latest Messages	13,842	2,673	5.2	71
4	By Types & Tracks	7,855	2,041	3.9	54
5	By Topics	7,765	2,048	3.8	54
6	Congress Info	3,778	1,449	2.6	38
7	Interact Now	3,649	731	5.0	19
8	Travel & Transport	1,728	915	1.9	24
9	Exhibition & Industry	1,178	689	1.7	18
10	Social Media	862	433	2.0	11

What users searched for

- Top 10 searched items in the mobile app are:

Rank	Searched word	No. of times searched
1	'badano'	106
2	'binder'	86
3	'hahn'	83
4	'lancellotti'	82
5	'cameli'	75
6	'popescu'	70
7	'bartko'	67
8ex.	'galderisi'	59
8ex.	'voigt'	59
10ex.	'delgado'	57
10ex.	'cikes'	57

- Top ten most viewed speakers/presenters

Faculty name	No. of Views ↓	No. of Times as Favourite
H. Mahmoud-Elsayed (Birmingham, GB)	107	2
P. Lancellotti (Liege, BE)	101	1
V. Delgado (Leiden, NL)	78	4
M. Galderisi (Naples, IT)	76	-
T. Binder (Vienna, AT)	76	1
C. Zito (Messina, IT)	74	-
R. Hahn (New York, US)	73	4
JD. Kasprzak (Lodz, PL)	70	2
LE. Sade (Ankara, TR)	70	3
N. Ajmone Marsan (Leiden, NL)	63	3

Most read messages

- Top ten most read messages.

Message	Date sent	Views ↓	No. of users	Views per user	% of users
Welcome to your congress app	18 Jun 2019 09:00	994	674	1.5	18
Have your portrait taken for free by a professional photographer in the lounge! Register by 2 December	27 Nov 2019 19:00	756	569	1.3	15
90 seconds to win the new ESC textbook	4 Dec 2019 14:00	693	490	1.4	13
Packing to attend EuroEcho 2019?	3 Dec 2019 09:00	680	541	1.3	14
Members get more	5 Dec 2019 10:30	576	360	1.6	10
Abstracts are now available in the app	27 Nov 2019 16:00	546	451	1.2	12
Apply by Sunday 24 November for speed mentoring sessions at EuroEcho	15 Nov 2019 18:00	546	465	1.2	12
Register on-site from Tuesday 3 December!	2 Dec 2019 10:00	522	438	1.2	12
TOE Workshops	4 Dec 2019 08:30	513	403	1.3	11
Welcome to EuroEcho 2019!	4 Dec 2019 07:00	513	407	1.3	11

F. EACVI section

Section	Views ↓	No. of users	Views per user	% of users
About the EACVI	209	126	1.7	3
EACVI Activities on-site	282	175	1.6	5

8.4 Promotion of the App

In order to obtain a large number of downloads and to anticipate Wi-Fi issues on-site, the mobile app was promoted before the start of the congress. This promotion allowed delegates to test the mobile app functionalities, prepare and schedule their attendance before arriving in Vienna.

A. In stores

ESC Congresses mobile app was distributed via 2 channels: the App Store® and the Google Play store as of **10 January 2018** and EuroEcho 2019 content was available on 18 June (~6 months before the congress).

- A unique meaningful name with ESC brand name in the App Store®/Google or other search engines: “ESC Congresses”
- Available free of charge with no log-in required
Available on the App Store® and on Google Play



Link to App Store®: <http://bit.ly/2jQ4hoz> Link to Google Play: <http://bit.ly/2jQ1ATI>

B. On the ESC website

The “ESC Congresses” app [dedicated webpage](#) promoting the umbrella app and all ESC congresses includes the links to the app stores to push downloads.

This web page promotes the mobile app functionalities.

C. E-campaigns

The mobile app was also promoted in dedicated Congress emailings and Congress Daily news.

E-campaigns	Sent on	# of recipients	Open rate	No. of downloads on that day
EACVI bulletin - Your EACVI Member Newsletter	19 Nov	7,905	50%	+41
Congress e-campaign - Get ready for Vienna	28 Nov	2,473	58%	+105
Congress e-campaign – Day 1	4 Dec	9,071	43%	+670
Congress e-campaign – Day 1	5 Dec	9,041	37%	+306

D. On printed/online elements

- In the Final Programme
- In the Programme at a glance
- On Congress News – day 2
- On congress webpage during the congress
- Dedicated webpage

E. On-site during EuroEcho 2019

The app was promoted during the intersession slideshow.

9. Press

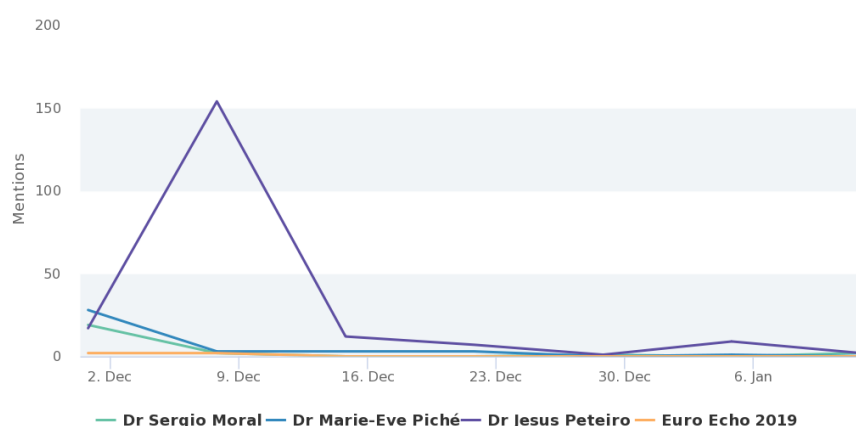
9.1 Key numbers

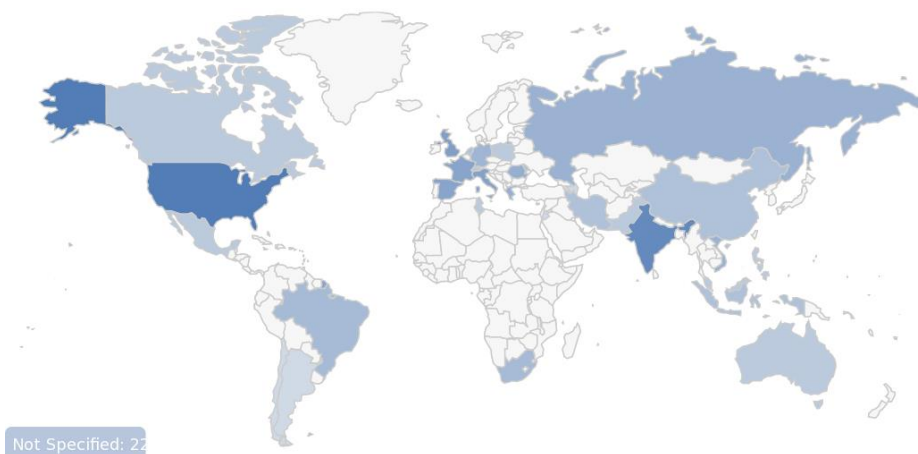
Press coverage	Date	Articles	Top Coverage
<u>EuroEcho 2019</u>	4-7 December 2019	<u>7</u>	<u>Drugs</u> <u>Today</u> <u>Yahoo News</u>
<u>Common heart drugs linked with less heart damage from cancer therapy</u>	4 December 2019	24	<u>La legge per tutti</u> <u>Medical News</u> <u>Medical Xpress</u>
<u>Obesity surgery improves the heart</u>	5 December 2019	38	<u>WebMD</u> <u>ABC</u> <u>Drugs</u>
<u>Women, exercise and longevity</u>	7 December 2019	201	<u>Yahoo News</u> US, UK, DE <u>Yandex</u> <u>Today</u>

9.2 Coverage analysis

EuroEcho 2019 collected a total of 267 articles which is a satisfactory result compared to previous years (447 in 2018, 33 in 2017, 224 in 2016). One press release focused media attention: “Women, exercise and longevity” was the most successful press release receiving coverage from both medical and lay news outlets reaching Asia, Europe and North America.

For the first time all press releases published at EuroEcho 2019 were covered by Asian media (India, China, Vietnam, Singapore) reaching a new and wider audience.



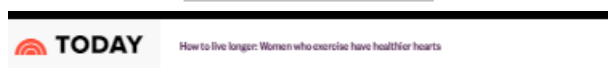


9.3 Clippings

All EuroEcho 2019 press articles are available online on criticalmention.com

Media: Today

Country: USA



How to live longer: Women who exercise have healthier hearts

The fittest women in the study were able to manage a simple exercise test.



Women in the study were considered fit if they could walk fast up four flights of stairs or very fast up three flights without stopping to catch their breath. Getty Images stock

Dec. 9, 2019, 4:28 PM OCT
By Linda Carroll

Women who exercise appear to **live longer**. Those who are very fit run a much lower risk of dying from heart disease, cancer and other common causes compared to those who are less active, a new study suggests. They new report is considered important because it's one of the few exercise studies that focus on benefits for women.

Spanish researchers found that compared to the fittest women, those with poor capacity for exercise were nearly four times more likely to die from heart disease, according to the study presented at EuroEcho 2019, the annual meeting of the European Association of Cardiovascular Imaging.

The fittest women in the study were able to manage the equivalent of "walking up four flights of stairs in about 45 seconds, or walking up three flights very fast," said the study's lead author Dr. Jesus Peteiro, a cardiologist at the University Hospital A Coruna.



Prior to Peteiro's research, information on the benefits of exercise in women had been scant as many studies have focused on men.

Be more active every day

Peteiro believes there is hope even for women who don't workout if they are willing to make a change now. While gym memberships may work for some, it's too easy to let those lapse, he said in an email.

EuroEcho2019
Post Congress Report



ACTUALITÉS DOSSIERS ABONNEMENT RÉSEAUX DE SANTÉ BLO

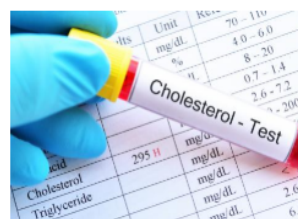
notre base actualités comporte, à ce jour, plus de 10 000 articles

Actualités

CHIRURGIE BARIATRIQUE : Bien plus qu'une simple perte de poids

Actualité publiée il y a 3 semaines 5 jours 2 heures

EuroEcho



La chirurgie de l'obésité améliore aussi la santé cardiaque, confirme cette étude présentée au Congrès EuroEcho de la Société européenne de cardiologie. Au fil des études, on découvre ainsi que la chirurgie de perte de poids est une approche efficace pour traiter aussi, les comorbidités courantes de l'obésité dont le diabète de type 2, l'hypertension et la dyslipidémie. Si d'autres études longitudinales sont nécessaires pour confirmer cette réduction du risque cardiovasculaire, les avantages déjà documentés de la chirurgie bariatrique pour les personnes obèses vont déjà bien au-delà de la simple perte de poids.

Car si la chirurgie bariatrique a été conçue au départ pour la perte de poids, l'étude ajoute à la preuve que la procédure peut également inverser la dysfonction cardiaque subclinique, une condition donc prédictive d'événements cardiovasculaires et de décès prématuré. Cet avantage n'est pas négligeable, alors que les personnes obèses présentent un risque de maladies cardiovasculaires multiplié par 2 et qui augmente de façon exponentielle avec le nombre de comorbidités de l'obésité. Enfin, on sait que l'obésité et ses comorbidités affectent la structure et la fonction cardiaque bien avant l'apparition et le diagnostic de la maladie cardiaque. Une fonction cardiaque anormale est courante chez les patients obèses.

Après la chirurgie bariatrique, la fonction cardiaque se normalise chez plus de 80% des patients

Les chercheurs examinent ici les effets de la chirurgie bariatrique chez 38 patients obèses ayant subi une chirurgie bariatrique et 19 patients, appariés pour l'âge et le sexe, sur liste d'attente chirurgicale. Les chercheurs ont également évalué l'impact de la chirurgie sur le diabète, l'hypertension et la dyslipidémie. Différentes mesures et analyses (dont poids corporel, tension artérielle, lipides sanguins et glycémie) ont été effectuées au début de l'étude, avant la chirurgie puis 6 mois plus tard. À 6 mois, les patients du groupe chirurgie,

- ont perdu 26% de leur poids corporel total,
- ont un taux de comorbidités significativement réduit (groupe chirurgie vs groupe liste d'attente : 30% vs 61% pour l'hypertension, 5% vs 42% pour la dyslipidémie, 13% vs 40% pour le diabète de type 2) ;
- 58% des patients du groupe chirurgie souffraient de cardiopathie subclinique au début de l'étude. Chez 82% de ces patients, la fonction cardiaque subclinique s'est normalisée à 6 mois. En revanche, la maladie subclinique s'est aggravée chez 53% des patients du groupe liste d'attente.
- Avant la chirurgie, les patients obèses avaient une fonction cardiaque subclinique pire que les témoins de poids sain. À 6 mois, la fonction cardiaque subclinique est similaire entre les 2 groupes.

Les comorbidités liées à l'obésité sont réduites : la rémission du diabète de type 2 après une chirurgie bariatrique a été d'ailleurs

Media: La Legge Per Tutti

Country: Italy

Media: Yahoo

Country: Germany



SALUTE E BENESSERE | NEWS

Terapia anticancro: un nuovo studio per evitare danni al cuore

4 Dicembre 2019



RICHIEDI UNA CONSULENZA AI NOSTRI PROFESSIONISTI



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Nel trattamento dei tumori, una ricerca ha dimostrato quali sono gli effetti dell'assunzione dei farmaci cardioprotettivi sui pazienti oncologici.

Oggi, è stato presentato all'EuroEcho 2019 di Vienna, un congresso scientifico della European Society of Cardiology (Esc), un nuovo studio che può aumentare la sopravvivenza dei pazienti oncologici sottoposti alle terapie anticancro. I malati di tumore che ricevono comuni farmaci per la protezione del cuore possono subire meno danni cardiaci. In particolare, potrebbe essere evitato un caso di cardiotoxicità ogni 10 pazienti con carcinoma mammario o ematologico trattati con questi medicinali.

In una nota stampa dell'agenzia Adinkronos, l'autore dello studio Sergio Morat, dell'Ospedale universitario Josep Trueta e dell'Ospedale Santa Caterina di Girona, Spagna, ha sottolineato che "il nostro studio fornisce supporto all'uso di routine di beta-bloccanti, inibitori dell'enzima di conversione dell'angiotensina (Ace) o bloccanti del recettore dell'angiotensina II (Arb) in pazienti sottoposti a trattamento del cancro, ma la decisione dovrebbe essere presa caso per caso".

I progressi nel trattamento dei tumori hanno portato a un aumento della sopravvivenza, ma allo stesso tempo le malattie cardiovascolari sono uno degli effetti collaterali più frequenti di queste terapie. L'incidenza di problemi cardiaci varia in base al farmaco, alla sua dose e alle caratteristiche del paziente, tra cui età e presenza di ipertensione. Il nuovo studio ha analizzato le migliori evidenze disponibili per esaminare se l'uso di beta-bloccanti, Ace-inibitori e/o Arb, fosse correlato a una ridotta incidenza di cardiotoxicità in pazienti con carcinoma mammario o ematologico che seguivano una terapia oncologica.

La cardiotoxicità è stata definita come declino della funzione della pompa cardiaca (calo della frazione di eiezione ventricolare sinistra al di sotto del 50%, o calo maggiore del 10%) e/o insufficienza cardiaca manifesta durante il primo anno di follow-up. La meta-analisi ha incluso 9 studi randomizzati controllati.

Il principale trattamento del cancro in tutti gli studi era la chemioterapia con antracicline; in alcuni lavori era stato anche somministrato un trattamento adiuvante come trastuzumab. Sono stati arruolati 913 pazienti, di cui 534 hanno ricevuto farmaci per il cuore e 379 facevano parte di un gruppo di controllo. Fra i pazienti che prendevano i medicinali per il cuore, 337 assumevano un beta-bloccante, 152 un Ace-Inibitore o Arb, 45 un beta-bloccante e un Ace-inibitore. Durante il follow-up di un anno, 108 pazienti (il 12%) hanno sviluppato cardiotoxicità. I pazienti in trattamento cardioprotettivo avevano però un rischio significativamente più basso di cardiotoxicità.

Lifestyle

Du kannst einige Jahre länger leben, wenn du die Treppe nimmst



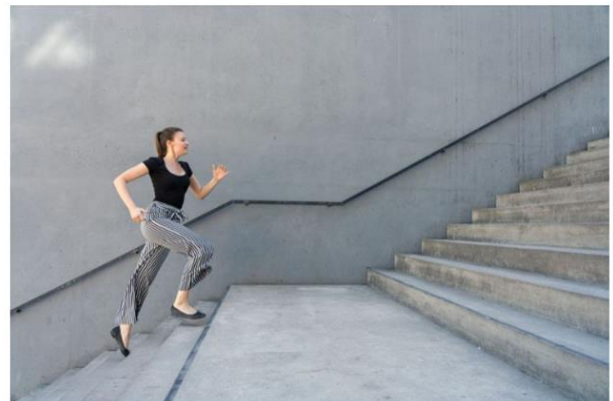
Style International Redaktion
Yahoo Style Deutschland
10. Dezember 2019

Laut einer Studie kann das Herauflaufen von Treppen bedeuten, dass du einige Jahre länger lebst.

Wissenschaftler des Universitätskrankenhauses Coruna in Spanien ließen mehr als 4.700 Frauen auf dem Laufband laufen, bis diese erschöpft waren.

Diejenigen, die es schafften, etwa so lange zu laufen, wie es dauern würde, vier Treppen hinaufzulaufen, hatten ein viermal geringeres Risiko, in den nächsten vier Jahren an einer Herzkrankheit zu sterben. Die Ergebnisse zeigen außerdem, dass es die Wahrscheinlichkeit, an Krebs zu sterben, halbierte.

„Treibe so viel Sport, wie du kannst“, sagte Hauptautor Dr. Jesus Peteiro. „Fitness schützt vor Tod durch viele Ursachen.“



Wenn du vier Treppen hinauflaufen kannst, verringert sich dein Risiko, frühzeitig zu sterben. Foto: Getty

2014/15 bewegten sich laut Heart Foundation 65,3% der Australier im Alter von 15 Jahren oder älter gar nicht oder zu wenig - insgesamt sind das 12 Mio. Australier.

In den USA sieht die Situation noch schlechter aus. Hier bewegten sich im letzten Jahr nur 25,4% der Erwachsenen