POST CONGRESS REPORT



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1. General information

1.1 Quick facts & figures

5 552 participants

3 715 Active delegates1 812 Exhibitors

96 countries represented

387 Faculty

679 Faculty roles 246 Chairpersons 363 Speakers 15 Judges 55 Discussants

101 Scientific Programme sessions 97 Scientific and Educational Programmes 35 Abstract based Programmes

9 lecture rooms + 1 agora

1 403 abstracts submitted; 982 abstracts accepted

Industry sponsored sessions 18 Satellite Symposia

Exhibition 1 723 m² occupied

EHRA Certification exam held on Saturday and Sunday.

1.2 Introduction

EHRA 2019 is the annual congress of the European Heart Rhythm Association (EHRA) of the ESC. The congress became annual in 2018.

1.3 History

Europace 2009	Europace 2011 EUROPACE 2013		EHRA EUROPACE 2015	EHRA 2018	EHRA 2019
Berlin, Germany	Madrid, Spain	Athens, Greece	Milan, Italy	Barcelona, Spain	Lisbon, Portugal
21-24 June	26-29 June	23-26 June	21-24 June	18 -20 March	17 - 19 march

1.4 EHRA 2019 Scientific Programme Committee

Chair Prof. Haran Burri (CH) I Co Chair Prof. Katja Zeppenfeld (NL)

PM, ICD & HOME MONITORING

Dr. Mauro Biffi (IT) Dr. Francesco Zanon (IT) Prof. Christian Sticherling (CH)

CRT & LEAD EXTRACTION

Prof. Angelo Auricchio (CH) Dr. Archana Rao (UK) Prof. Francisco Leyva (UK)

AF ABLATION

Dr. Mattias Duytschaever (BE) Prof. Jose Merino (SP) Prof. Pascal Defaye (FR) Dr. Philipp Sommer (DE)

VT ABLATION

Dr. Antonio Berruezo Sanchez (SP) Prof. Gerhard Hindricks (DE) Dr. Philippe Maury (FR) Dr. Philipp Sommer (DE)

SVT

Prof. Andrea Sarkozy (BE) Dr. Fransisco Moscoso Costa (PT)

SCD

Prof. Xavier Jouven (FR)

PEDIATRICS/GUCH

Prof. Jan Janousek (CZ)

RHYTHM DIAGNOSTICS & SYNCOPE

Dr. Daniel Scherr (AT) Dr. Natalia Antonio (PT)

CLINICAL AF, STROKE & ANTICOAGULATION Prof. Isabelle C. van Gelder (NL)

Dr. Przemyslaw Mitkowski (PL)

INHERITED CARDIOPATHIES

Prof. Pier Lambiase (UK)

CLINICAL RHYTHMOLOGY

Prof. Isabel Deisenhofer (DE) Prof. Mario Martins Oliveira (PT) Dr. Maxim Didenko (RU)

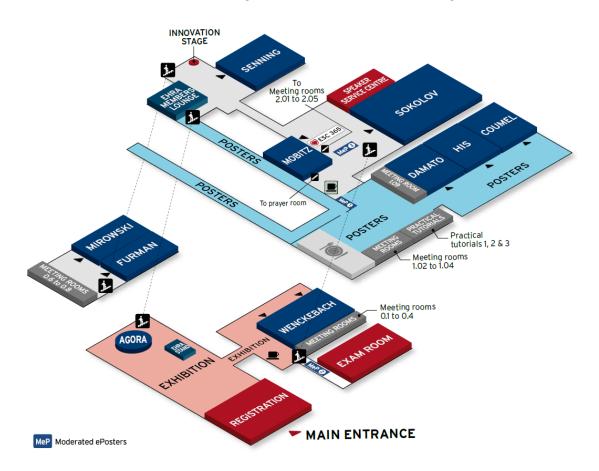
NURSING & AP Mrs Lynne Hiterbuchner (AT)

BASIC SCIENCE

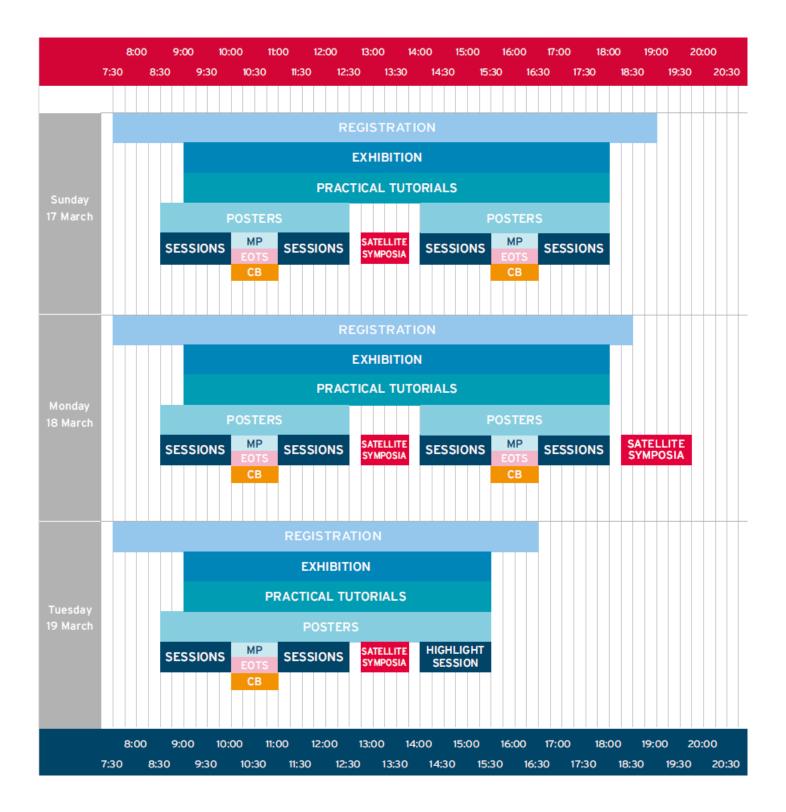
Dr. Daniel Pijnappels (NL)

1.5 Venue

EHRA 2019 was held at the Lisbon Congress Centre (CCL) in Lisbon, Portugal.



1.6 Schedule



2. Scientific Programme

2.1 Overview

- > 9 Lecture rooms + 1 Agora
- > 1 Poster area divided into 2 zones
- ➤ 3 Moderated ePoster areas

In total 132 sessions

97 Scientific and Educational Programmes (doesn't include special events)

Session Type	# Sessions
Debate session	6
How-to session	19
Main session	33
Meet the trialists	2
Special session	20
Symposium	12
Featured symposium	5
Grand Total	97

35 Abstract based Programmes

Session Type	# Sessions
Abstract Session	2
Moderated e Posters	15
Poster session	9
Rapid Fire Abstracts	7
YIA – Award session	2
Grand Total	35

Scientific submissions

Abstracts

- 1 403 abstracts submitted
- > 982 abstracts accepted
- Acceptance rate: 70%
- Cut-off grade: 6

Clinical cases

- 228 clinical cases submitted
- > 50 clinical cases accepted
- Acceptance rate: 21,9%
- Cut-off grade: 6,10

Total

- > Total submitted: 1631
- > Total accepted: 1032
- Total acceptance rate: 63,2%

Abstract & Clinical cases submission started 18 August 2018 and ended 22 October 2018 - Deadline extended to 25 October 2018.

New this year

- 3 stations of Moderated ePosters
- Meet the trialists: implemented this year to feature Late Breaking Science presentations already presented at ACC.
- "Meet my patient" sessions: 2 patient sessions 4 patients with collaboration of patient physicians. It was a pilot session on ESC congresses.
- Tracings open: 3 tracing sessions identifying delegates. These differ from voting via the ESC Mobile App as each delegate was identified in the game with a username and an avatar.

The winners of each session (3 per session) were awarded a medal and a text book (only for the first winner).

Innovation stage: implemented to reinforce the innovation track sessions. Organized in a dedicated area and featuring the material submitted via the Call for Innovation. The winner and the 2 runners up were awarded a plaque.

Special initiative this year

WGCCE: EHRA hosting the Working Group on Cellular Cardiac Electrophysiology Congress every two years.

• 5 oral sessions and 2 poster sessions

2.2 Faculty

387 Faculty members (excluding Presenters and Industry)

679 Faculty roles (excluding Industry)

- 246 Chairpersons
- 363 Speakers
- 15 Judges
- 55 Discussants (including Young EP Poster discussants and session discussants. Higher number this year to increase interactivity with the audience).

Faculty overview

	2015	2017	2018	2019
Total number of Faculty	454	469	343	387
Total number of Roles	843	860	701	679

Faculty roles

Type of roles	2015	2017	2018	2019	Variance
Type of foles	Milan	Vienna	Barcelona	Lisbon	2018/2019
Chairperson	302	292	241	246	+5
Speaker	531	490	404	363	-41
Judges	4	6	6	15	+9
Discussant	6	72	50	55	+5
	843 roles -	860 roles -	701 roles -	679 roles -	-22 roles
Role Total	454 persons	469 persons	343 persons		+44
	48,5%	51,3%	52,2%	387 persons	persons

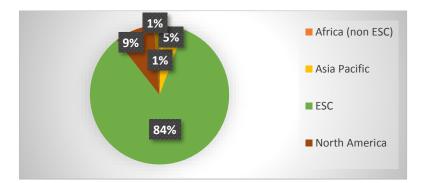
Role distribution per faculty

Role distribution per faculty	2015	2017	2018	2019
1	264	282	175	238
2	95	95	84	82
3	46	42	35	31
4	27	18	20	21
5	10	20	16	8
6	4	3	3	2
8	3	3	3	1
9	1		1	2
10	1			1
11				
12	1			1
13		1		
Grand Total	454	469	343	387

Faculty by gender EHRA2019

Gender	Total	%
Female	67	17%
Male	320	83%
Grand Total	387	100%

Faculty origin Distribution per Region



Comparison with previous years

Faculty by Region	2015	2017	2018	2019	Variance 2018/2019
ESC	391	388	278	324	+46
North America	44	55	43	36	-7
Asia Pacific	12	16	14	20	+6
Africa (non ESC)	0	2	1	2	+1
South & Central America	7	8	7	5	-2
Total	454	469	343	387	+44

Top 10 countries of origin

Country	EHRA 2015	EHRA 2017	EHRA 2018	EHRA 2019
Germany	53	69	45	50
United Kingdom	46	43	36	39
The Netherlands	38	33	30	34
Italy	59	47	25	33
United States of America	39	48	36	32
France	36	26	33	27
Switzerland			15	22
Spain	26	18	23	21
Portugal				14
Belgium	12	15	11	12

2.3 Sessions

Programme overview by type of sessions

EHRA	Туре	2017	2018	2019	Variance 2018- 2019
		Austria	Spain	Portugal	
	Moderated Posters	7	5	15	+10
Abstract-	Poster Session	8	4	9	+5
based	Rapid Fire Abstract	9	7	7	0
Programme	Young Investigators Awards Abstracts	2	2	2	0
	Abstract Session	1	2	2	0
	Total abstract sessions	27	20	35	+15
	Debate Session	6	6	6	0
	Featured Symposium – Sessions from WGCCE	5		5	
	How-to Session	14	25	19	-6
Scientific and	Main Session	19	17	33	+16
Educational	Meet the Trialists		4	2	-2
Programme	Meet The Experts	4	2		
	Special Event	4	4	4	0
	Special Session	11	11	20	+9
	Symposium	66	30	12	-18
	Total scientific sessions	129	99	101	+2
	How to Sessions	4			
	Satellite Symposium	18	18	18	0
	Satellite Symposium – Experts on the				
Industry	Spot	5	5	6	+1
Programme	Closed Industry Meeting	1	1	2	+1
	The PACE	75	30		
	Practical Tutorials			44	+44
	Total industry sessions	103	54	70	+16
Total sessions p	per Congress	259	173	206	+33

Special Sessions 2019 ordered by the head count peak

Туре	Title	Session date and time	Head count peak	Room
Special Session	How to interpret difficult ECGs and intracardiac electrograms	18/03/2019 08:30	355	Senning
Special Session	Live case session - Mapping and ablation of left atrial macroreentrant tachycardias	18/03/2019 11:00	330	Mirowski
Special Session	Live case session - Direct His bundle pacing	17/03/2019 16:30	323	Mirowski
Special Session	Live case session - Ablation of atrial fibrillation	17/03/2019 11:05	300	Mirowski
Special Session	EHRA 2019 - Congress highlights	19/03/2019 14:00	261	Sokolov
Special Session	The 12-lead ECG as a daily,17/03/2019 08:30indispensable, companion200		200	Sokolov
Special Session	Live case session - Ablation of ischaemic ventricular tachycardia	19/03/2019 11:00	161	Mirowski
Special Session	Honorary lecture	18/03/2019 11:00	152	Senning
Special Session	Meet my patient 2	18/03/2019 10:00	130	Mobitz
Special Session	EHRA device tracings open	18/03/2019 14:00	129	Furman
Special Session	Sudden cardiac death in sports activities	18/03/2019 08:30	110	Coumel
Special Session	EHRA ECG open	17/03/2019 16:30	109	Furman
Special Session	EHRA EP tracings open	19/03/2019 11:00	80	Furman
Special Session	Update on remote cardiac implantable electronic device management	18/03/2019 11:00	78	Damato
Special Session	Live case session - Lead extraction	18/03/2019 16:30	70	Mirowski
Special Session	Sudden cardiac arrest - European perspectives and solutions	18/03/2019 14:00	55	Coumel
Special Session	Meet my patient 1	17/03/2019 15:30	52	Mobitz

Sessions by Topic (Excluding Industry sessions and Special Event)

Торіс	Total nb of sessions	Pre- arranged	Abstracts
4 - Arrhythmias, General	35	29	6
5 - Atrial Fibrillation	20	16	4
6.4 - Supraventricular Tachycardia (non-AF) - Treatment	5	4	1
6.6 - Supraventricular Tachycardia (non-AF) - Clinical	1	1	
6.99 - Supraventricular Tachycardia (non-AF) - Other	1	1	
7.6 - Syncope and Bradycardia - Clinical	2	2	
8 - Ventricular Arrhythmias and Sudden Cardiac Death (SCD)	16	12	4
9 - Device Therapy	29	22	7
20 - Congenital Heart Disease and Pediatric Cardiology	2	2	
29.3 - Sports Cardiology	1	1	
33 - e-Cardiology / Digital Health	2		2
36 - Basic Science	9	7	2
99 - Other	9		9
Total	132	97	35

All lecture rooms were equipped with the Mobile App – Vote and Ask a Question functionality.

Sessions by track

Category	2019
Mobile App - Ask a Question	75
Mobile App - Vote and Ask a Question	18
Device implantation	14
Joint Session	14
Ventricular ablation	10
Working Group on Cardiac Cellular Electrophysiology Track	8
AF ablation	8
Device programming	7
Innovation Track	6
Nursing and Allied Health Professionals	2

Joint session

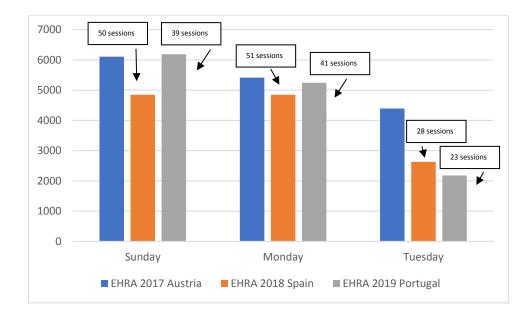
	Partners	2017	2018	2019
(HFA (Heart Failure Association)	х	Х	X
	WG on GUCH (Grown-Up Congenital Heart Disease)			X
ESC	WG CCE (Cellular Cardiac Electrophysiology)			X
	Council for Cardio-Oncology			x
	EACVI (European Association for Cardiovascular Imaging)	Х	Х	x
Ĭ.	APHRS (Asian Pacific Heart Rhythm Society)	х	х	X
Other partners	LAHRS (Latin American Heart Rhythm Society)		Х	X
	ECGen (European Cardiac arrhythmia GENetics)			X
	CASSA (Cardiac Arrhythmia Society of Southern Africa)	х	Х	X
\langle	Chinese Society EP	Х	Х	X
	AEPC Dysrhythmia WG			X
	JHRS (Japanese Heart Rhythm Society)	х	Х	X
	SOBRAC (Sociedade Brasileira de Arritmias Cardíacas)	Х	Х	X
	HRS (Heart Rhythm Society)	Х	Х	X

2.4 Occupancy of scientific sessions

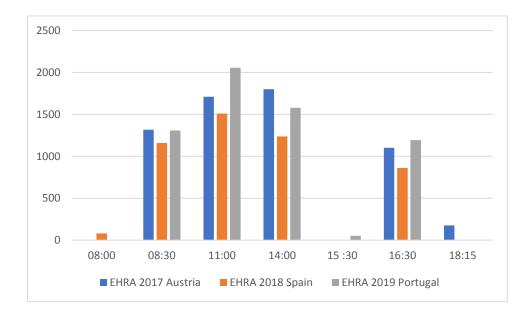
Attendance per time slot - Comparison with previous years

Date	Start Time	EHRA 2017	EHRA 2018	EHRA 2019
		Austria	Spain	Portugal
	08:00	N/A	80	N/A
	08:30	1318	1158	1307
	11:00	1711	1510	2057
Sunday	14:00	1800	1238	1579
Sunday	15:30	N/A	N/A	52
	16:30	1102	860	1194
	18:15	175	N/A	N/A
	TOTAL	6106	4846	6189
	08:00	N/A	206	82
	08:30	1230	1092	1340
	10:00	N/A	62	130
Monday	11:00	1743	1484	1656
	14:00	1278	1250	1275
	16:30	1162	754	760
	TOTAL	5413	4848	5243
	08:00	N/A	N/A	46
	08:30	1158	884	866
	09:30	N/A	N/A	88
	10:10	N/A	93	N/A
Tuesday	11:00	1275	1023	921
	12:30	N/A	80	N/A
	14:00	1384	550	261
	16:30	578	N/A	N/A
	TOTAL	4395	2630	2182
	08:30	423	N/A	N/A
Wednesday	11:00	380	N/A	N/A
	TOTAL	803	N/A	N/A
	GRAND TOTAL	16717	12324	13614

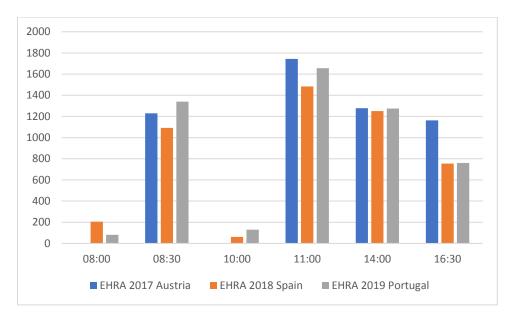
Session attendance – overview



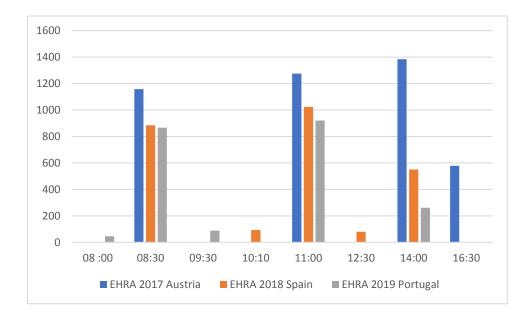
Sunday attendance 2017 – 2019



Monday attendance 2017 – 2019



Tuesday attendance 2017 – 2019



Top 10 sessions - ordered by head count peak

Туре	Title	Session date and time	Head count peak	Room
Main Session	Late-breaking trials 1	17/03/2019 14:00	430	Sokolov
Main Session	Direct His bundle pacing - True physiological stimulation	18/03/2019 14:00	400	Senning
Special Session	How to interpret difficult ECGs and intracardiac electrograms	18/03/2019 08:30	355	Senning
How-to Session	Syncope - Translation of guidelines into clinical practice 17/03/2019 11:0		330	Sokolov
Special Session	Live case session - Mapping and ablation of left atrial macroreentrant tachycardias	18/03/2019 11:00	330	Mirowski
Special Session	Live case session - Direct His bundle pacing	17/03/2019 16:30	323	Mirowski
Special Session	Live case session - Ablation of atrial fibrillation	17/03/2019 11:05	300	Mirowski
Main Session	Sudden cardiac death - Old and new questions	17/03/2019 11:05	300	Mobitz
Main Session	Recurrence of atrial fibrillation and all veins are still isolated - Now what?	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Mobitz
Special Session	EHRA 2019 - Congress highlights	19/03/2019 14:00	261	Sokolov

2.5 Abstracts

Overview of submissions by type

EHRA congress	Abstract 2017	Clin.Case 2017	Abstract 2018	Clin.Case 2018	Abstract 2019	Clin.Cases 2019
	Vienna	Vienna	Barcelona	Barcelona	Lisbon	Lisbon
TOTAL Submitted	1507	N/A	983	167	1403	228
TOTAL Accepted	1129	N/A	704	38	982	50
% acceptance rate	74,9%	N/A	71,54%	22,60%	70%	21,9%
Cut off grade	5,5	N/A	5,8	6	6	6,1
Accepted withdrawn	50	N/A	22	N/A	44	N/A
Expected onsite	1079	N/A	682	38	938	50
Total expected Onsite	1079		720		988	
No shows (abs + Clin.c)	80		28		8 53	
Presented	99	99	69	92	935	

3.1 Registration Overview

	Athens	Milan	Vienna	Barcelona	Lisbon	Difference
	2013	2015	2017	2018	2019	2018/2019
Active delegates	3477	4073	4178	2722	3715	993
Press	14	51	35	18	25	7
Exhibitors	1608	1597	1989	1175	1812	637
Total	5099	5721	6202	3915	5552	1637

3.2 Delegate breakdown by activity

Statistics are based on information given on participant's "My ESC" accounts. This information was available for 3 111 delegates

ACTIVITY	% / Event 🔻	ΑCTIVITY	% / Event
Physician Cardiologist - Clinical Cardiologist	52,34%	Other - Press	0,16%
Physician Cardiologist - Interventional	9,29%	Nurse or Allied Professional - Paramedic	0,13%
Nurse or Allied Professional - Scientist/Researcher	6,10%	Physician (non-cardiologist) - Emergency Medicine	0,13%
Other - Other	2,84%	Nurse or Allied Professional - Administrator	0,11%
Nurse or Allied Professional - Technician	2,28%	Physician (non-cardiologist) - Nuclear Medicine	0,08%
Nurse or Allied Professional - Nurse	1,79%	Physician Cardiologist - Heart Failure	0,08%
Other - Other Healthcare Profession	1,77%	Nurse or Allied Professional - Advanced Nurse Practitioner	0,05%
Nurse or Allied Professional - Clinical Bioengineer	1,58%	Nurse or Allied Professional - Physiological Scientist	0,05%
Physician Cardiologist - Electrophysiologist	1,18%	Physician Cardiologist - Acute Cardiac Care	0,05%
Physician (non-cardiologist) - Cardio-Thoracic Surgery	0,86%	Physician Cardiologist - Scientist researcher	0,05%
Physician (non-cardiologist) - Internal Medicine	0,78%	Nurse or Allied Professional - Healthcare Scientist	0,03%
Physician (non-cardiologist) - Other Specialty	0,78%	Physician (non-cardiologist) - Neurologist	0,03%
Other - Industry Representative	0,24%	Physician (non-cardiologist) - Radiologist	0,03%
Physician (non-cardiologist) - General Practitioner / Family Medicine	0,24%	Physician (non-cardiologist) - Vascular Surgery	0,03%
Physician (non-cardiologist) - Intensive Care Medicine	0,19%	Physician Cardiologist - Paediatric cardiology	0,03%

3.3 Registration by origin

3.3.1 Registration TOP 15

Vienna 2018	Barcelona 2018	Lisbon 2019
317	272	348
253	214	293
407	215	271
263	175	257
70	48	189*
241	129	185
235	176	166
130	105	136
109	84	126
120	138*	118
100	79	111
172	97	108
136	51	89
108	63	88
65	57	75
	253 407 263 70 241 235 130 109 120 100 120 100 172 136 138	253214407215263175704824112923517613010510984120138*10079172971365110863

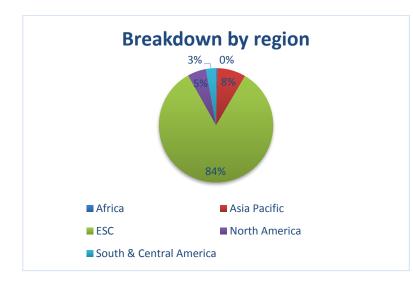
* Host country

	Vienna	Barcelona	Lisbon		Vienna	Barcelona	Lisbon
Country	2017	2018	2019	Country	2017	2018	2019
Albania	7	1	3	Korea (Republic of)	41	24	39
Algeria	4	3	2	Kuwait	0	0	2
Argentina	56	28	27	Latvia	9	9	11
Armenia	2	6	3	Lebanon	5	2	9
Australia	39	28	26	Libya	0	0	1
Austria	139	58	72	Lithuania	11	9	15
Bahrain	0	0	1	Luxembourg	0	0	1
Bangladesh	3	0	1	Malaysia	4	4	4
Belarus	16	17	10	Malta	2	2	6
Belgium	109	84	126	Mexico	13	8	5
Bosnia and				Moldova			
Herzegovina	6	1	4	(Republic of)	0	1	3
Brazil	76	25	53	Monaco	3	1	2
Bulgaria	48	10	27	Montenegro	1	2	3
Cameroon	0	0	1	Myanmar	3	0	5
Canada	33	21	25	Netherlands (The)	253	214	293
Chile	20	3	5	New Zealand	4	0	4
China	53	18	23	Northern Macedor	5	3	5
Colombia	13	12	12	Norway	44	49	48
Costa Rica	5	1	5	Oman	0	1	1
Croatia	28	11	29	Palestine, State of	1	1	2
Curaçao	0	0	1	Philippines	9	5	4
Czechia	83	22	68	Poland	172	97	108
Denmark	60	66	69	Portugal	70	48	189
Dominican Republic	1	0	2	Romania	38	43	57
Ecuador	4	0	2	Russian Federation	130	105	136
Egypt	6	24	20	Saudi Arabia	1	19	17
Estonia	3	3	10	Serbia	27	8	21
Finland	31	10	40	Singapore	9	5	14
France	241	129	185	Slovakia	32	10	34
Georgia	4	10	9	Slovenia	11	3	16
Germany	317	272	348	South Africa	29	7	9
Ghana	0	1	1	Spain	120	138	118
Greece	108	63	88	Sri Lanka	1	0	1
Hong Kong	6	1	8	Sudan	1	1	1
Hungary	65	57	75	Sweden	44	66	57
Iceland	3	1	2	Switzerland	100	79	111
				Toiwon Drovinco			
India	٥	E	2	Taiwan, Province	15	2	25
India Indonesia	9	5	2	of China Thailand	15 13	2	25 3
Iran (Islamic Republic o	53	10	8	Tunisia	8	3	3
Iraq	2	0	3	Turkey	8 107	24	50
Ireland	15	28	23	Ukraine	107	24	23
Israel	75	34	49	United Arab Emira	6	4	4
	, 5	34	-+3	United Kingdom	0	+	7
				of Great Britain			
Italy	407	215	271	and Northern	263	175	
				Ireland			257
Japan	136	51	89	United States of Ar	235	176	167
Jordan	3	0	2	Uruguay	7	3	1
Kazakhstan	12	22	12	Uzbekistan	0	2	5
Kenya	0	0	1	Viet Nam	16	2	3
Korea (Democratic	-		_				-
People's Republic of)	0	0	1				
,				• •			

3.3.2 Registrations by country

ESC TV at EHRA 2019 report

3.3.3 Registration by Region



Country Region	Delegates
Africa (<u>non ESC</u>)	14
Asia Pacific	302
ESC	3120
North America	197
South & Central America	107

3.4 Returning delegates

- 16 % (594 delegates) attended 2017, 2018 and 2019 Congresses
- 26 % (980 delegates) attended 2018 and 2019
- 32 % (1 184 delegates) attended 2017 and 2019

NB A third of delegates who attended EHRA- Cardiostim 2017 returned to EHRA 2019

3.5 Exhibitor attendance (comparison evolution since 2014)

Congresses	Total
2014 Nice	n/a
2015 Milan	1608
2016 Nice	n/a
2017 Vienna	1979
2018 Barcelona	1646
2019 Lisbon	1812

4 YIA & Grants

4.1 **Project Description**

EHRA Congress Educational Grants & EHRA Congress Travel Grants	EHRA Congress Industry Sponsored Grants
EHRA offered Congress Educational and Travel Grants to healthcare professionals and physicians who have limited access to funding or difficulties obtaining financial assistance to attend EHRA 2019.	This grant was made possible with the support of two Industry Partners: Boston Scientific and Medtronic.
How man	y were offered?
425 Educational Grants /25 Travel Grants	150 (120 by Boston/30 by Medtronic)
What is inclu	uded in the Grant?
The Congress badge was sent (inserted in t) 2. Financial contribution toward the cost of travel and accommodation.	ee registration: : with the Programme at a Glance he badge holder) 2. Travel Return ticket, from chosen airport. An economy class, non-refundable and non- changeable E-Tickets. 3. Accommodation 3 nights stay in hotel on single occupancy basis. dance-Mandatory
Proof of atten	dance-Mandatory
For Educational and Travel Grants Winners: Sign in and Sign out Mandatory at the 1 st and last day of their attendance. The grant payment occurs post congress is conditioned by the presence at the congress (for a minimum of 2 days)	For Industry Grants Winners : the proof of presence was requested if sign in and sign <i>out</i> not properly done onsite (for a minimum of 2 days)

4.2 Actual attendance

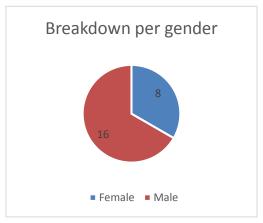
Educational Grants (425 offered) For EHRA Members

Country	Awardees at the Congress
Algeria	1
Armenia	2
Austria	3
Belarus	1
Belgium	4
Bosnia and Herzegovina	2
Bulgaria	3
Croatia	2
Czech Republic	1
Denmark	7
Egypt	12
France	6
Georgia Republic	2
Germany	31
Greece	13
Hungary	12
Israel	3
Italy	68
Latvia	4
Lithuania	1
Macedonia	2
Malta	1
Moldova Republic of	3
Netherlands	15
Poland	27
Portugal	6
Romania	25
Russian Federation	37
Serbia	1
Slovenia	3
Spain	21
Switzerland	2
Tunisia	1
Turkey	9
Ukraine	15
United Kingdom	38
Uzbekistan	3
Grand Total	387

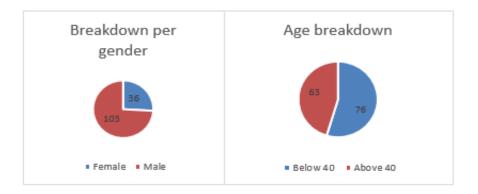


Travel Grant (25 offered) For abstract submitters below 40 years old

Country	Awardees at the congress
Belgium	2
Canada	1
Denmark	2
Egypt	1
Hungary	1
Israel	1
Italy	2
Korea Republic of	2
Netherlands	4
Poland	1
Russian Federation	2
Taiwan ROC	1
United Kingdom	2
United States of America	1
Uzbekistan	1
Grand Total	24



Industry	ndustry Grants (150 offered: 120 Boston + 30 Medtronic)					
	Actual attendance breakdown per Industry					
	28 111 • Medtronic • Boston					
÷						
Count		Attendees at the congress				
Austr		8				
Belgiu		5				
	Republic	1				
Denm		1				
Finlar		4				
Franc		4				
Germ	any	20				
Greed		2				
Hung		2				
Italy		30				
Kuwa	it	1				
Lebar	ion	2				
Malay	/sia	1				
Nethe	erlands	8				
Polan	d	9				
Portu	gal	3				
Roma	nia	1				
Russia	an Federation	1				
Serbia	3	1				
Slova	Slovak Republic 2					
Spain		6				
Switz	witzerland 11					
Turke		2				
	United Kingdom 14					
	l Total	139				



5 Industry

5.1 New this year

The European Society of Cardiology is committed to bridging gaps in education and offered the possibility for Industry to support grants through the EHRA INDUSTRY SPONSORED GRANTS programme for a second consecutive year.

These grants provide financial support and facilitate the attendance of delegates wishing to attend the leading congress in Electrophysiology for three-days.

To ensure diversity in attendance and high-quality interaction among delegates at EHRA 2019, the selection of grant recipients was made this year via the Criteria Mapping, a randomized automatic selection of the MyESC Database.

5.2 Industry summary

EHRA 2019				
Exhibition	1 565 m²			
Rooms at EHRA	20			
Satellite Symposium	18			
Experts on the spot	6			
Practical Tutorials	3			
Sponsorship	23			
Industry Grant	150			

5.3 Tracking of participation since 2013

Sponsors	2013	2015	2017	2018	2019	+/- 2018
ομυπουτο			Square	meters		
Abbott	9	-	-	175.5	200	24.5
St Jude Medical	188	120	120.25	175.5	200	
Access Point Technologies	9	10	9	-	9	+9
Acutus Medical	-	-	12	9	18	+9
AliveCor	12	-	-	-	-	-
American College of Cardiology	-	-	9	9	9	-
AngioDynamics	-	-	-	9	9	-
Atricure Europe BV	-	15	18	18	15	-3
Bard	63	-	-	-	-	-
Bardy Dx	-	-	36	36	9	-27
Baylis Medical	9	9	18	9	18	+9
Biosense Webster Europe	98	101.5	100.1	75	150	+75
BIOTRONIK SE &Co. KG	84	108.75	105	100	97.5	-2.5
Bittium Corporation	-	-	9	9	9	-
BMS/ Pfizer	60	-	-	70	70	-
Boehringer Ingelheim	-	-	30	-	-	
Boston Scientific	183.5	108.5	135	195.75	150	-45.75
CardioFocus	-	10	18	16	9	-7
Cascade Refining Inc	-	-	9	-	-	-
Catheter Precision Inc	-	-	-	-	10	+10
CIRCA Scientific	-	9	9	9	9	-
CNSystems Medizintechnik AG	-	-	9	-	-	-
Cook Medical	28	30	30	20	18	-2
CVRx	42.5	18	-	-	-	-
Daiichi Sankyo Europe GmbH	-	61	-	-	-	-
Dot Medical	-	-	-	9	-	-9
EBIT SRL	-	9	-	-	-	-

ESC TV at EHRA 2019 report

EBR Systems Inc.	12	9	18	18.75	18	-0.75
Endosense	9	-	-	-	-	-
EP Solutions SA	-	-	-	-	9	+9
EPMap-System GmbH & Co. KG	-	-	-	-	9	+9
Eumaco Health Care Systems	-	9	-	-	-	-
FIAB SpA	-	10	-	-	9	+9
FibriCheck	-	-	9	9	-	-9
FMS. Finapres Medical Systems BV	12	12.5	12	12	12	-
Fysicon	-	16.5	-	-	-	-
Galgo Medical. S.L.	-	-	9	9	9	-
GE Healthcare	15	-	-	-	-	-
Hansen Medical	18	16	-	-	-	-
Health in Code SL	-	-	9	-	-	-
HealthWatch	-	-	9	-	-	-
Implicity	-	-	-	18	18	-
Impulse Dynamic	18	-	9	-	19.5	+19.5
Imricor	12	9	22.5	18	9	-9
IRIS (Servier)	-	-	-	-	35	+35
Lemer Pax	18	-	-	-	-	-
Lindacare	-	-	18	9	9	-
Maastricht University Medical Centre (MUMC)	-	-	-	-	9	+9
Manta	-	10	-	-	-	-
MedFact engineering GmbH	-	-	9	-	-	-
Medex Research	9	9	-	-	10	+10
Medico Spa	10	15	18	12	15	+3
Medtronic	248	253	195	150	150	-
Merit Medical Systems	-	12	18	18	18	-
Microport (ex.LivaNova - ex.SORIN)	100.05	104	100	100		
Shanghai MicroPort EP MedTech Co Ltd	9	30	16	15	100	-15
National Manufacturing CO Inc.	-	9	9	9	9	-

ОЅҮРКА АĞ	-	10	9	9	10.5	+1.5
Portola	-	-	-	-	9	+9
Preventicus GmbH	-	-	9	9	9	-
Pro-PLUS S.A.	-	-	-	-	9	+9
Radcliffe Cardiology	-	-	-	9	21	+12
Renew health Ltd	-	-	-	-	9	+9
RESMED	12	-	-	-	-	-
Rooti Labs Limited	-	-	12	-	-	-12
Schwarzer Cardiotek	21	26	26.25	26.25	25.5	-0.75
SentreHEART	-	-	-	9	-	-9
Siemens AG Healthcare Sector	25	40	51	56	55.5	-0.5
SMART SOLUTIONS TECHNOLOGIES. S.L.	-	-	9	9	-	-9
Spectranetics International	40	63	65	67.5	65	-2.5
Philips Healthcare	20	-	-	07.5	00	2.5
Stereotaxis Inc	35	52.5	60	60	59.5	-0.5
Synaptic Medical	-	-	9	-	-	-
Topera	15	56	-	-	-	-
Tyche MedTech. Inc.	-	9	-	-	-	-
Tyrx	12	-	-	-	-	-
Vitatron	21	19.5	18	18	9	-9
Wisepress	9	9	9	9	9	-
World Society of Arrhythmias	-	-	-	9	9	-
Zenicor Medical Systems	-	-	-	-	9	+9
Zoll CMS GMB	15	15	20	19.5	18	-1.5
ZTS HAGMED	9	9	-	-	-	-
TOTAL	1510.05	1432.75	1 454.10	1477.25	1605.00	+100.75

5.4 Sponsorship & advertisement

A wide range of services for congress attendees are available for sponsorship by our Industry Partners providing essential support for the Congress and opportunity for novel communication to the healthcare profession.

EHRA 2013	11	EHRA 2015	24	EHRA 2017	19	EHRA 2018	24	EHRA 2019	24
Badge Holder	1	Badge Holder	1	Congress news	1	Badge Holder	1	Badge Holder	1
Congress Bag	1	Cardiostim in review	1	eBlast	2	eBlast	7	eBlast	3
Ind Welc desk	6	eBlast	5	Ind Welc desk	3	Live Broadcasting	2	Live Broadcasting	2
Mobile app	1	Grant session	1	Live Broadcasting	2	Mobile app	1	Mobile app	1
Session Grant	2	Industry Welc desk	6	Mobile app	1	Splash Advert & Push	3	Splash Advert & Push	5
		Mobile app	1	Splash Advert & Push	1	Online Congress News	1	Online Congress News	1
		Online Congress News	1	Prog at a glance	2	Onsite	5	Onsite	5
		Onsite	4	Session Grant	4	Session Grant	1	Prog at a glance	1
		Screencast	4	Webcast	3	Webcast	3	Webcast	4
								Content licensing	1
						Industry grants	207	Industry grants	150

5.5 Exhibition

Stand space – evolution since 2013

	EHRA	EHRA	EHRA	EHRA	EHRA
	2013	2015	2017	2018	2019
Exhibition in m ²	1431	1424	1445	1460	1565

5.6 Industry Sponsored Sessions

5.6.1 Satellite Symposia

Eighteen Satellite Symposia were organised by eleven different companies.

The following items are included in the price of a Satellite Symposium:

- Room rental
- 1 Congress News insert: inside the Congress News will be included the industry adverts for the Satellite Symposium. the day of the session
- 1 weblink
- 1 information screen

Account Name	Slot	Attendance	Room Size/Capacity
Abbott Vascular International BVBA	Monday 12:45- 13:45	50%	350
Abbott Vascular International BVBA	Sunday 12:45-13:45	105%	350
Abbott Vascular International BVBA	Monday 12:45- 13:45	70%	400
Abbott Vascular International BVBA	Sunday 12:45-13:45	110%	400
Biosense Webster Europe	Monday 12:45- 13:45	100%	250
Boston Scientific International SA	Sunday 12:45-13:45	80%	300

Boston Scientific International SA	Monday 12:45- 13:45	100%	300
Cook Medical Europe Itd	Sunday 12:45-13:45	90%	150
Daiichi Sankyo Europe GmbH	Tuesday 12:45- 13:45	70%	300
Medtronic International Trading SARL	Sunday 12:45-13:45	100%	250
Medtronic International Trading SARL	Sunday 12:45-13:45	80%	400
Medtronic International Trading SARL	Tuesday 12:45- 13:45	80%	400
Medtronic International Trading SARL	Monday 12:45- 13:45	75%	400
MicroPort CRM	Monday 12:45- 13:45	70%	650
Pfizer Ltd	Monday 12:45- 13:45	105%	150
Radcliffe Cardiology	Sunday 12:45-13:45	105%	150
Spectranetics International BV	Monday 12:45- 13:45	70%	150
Zoll CMS GmbH	Tuesday 12:45- 13:45	90%	100

Satellite Symposia over the years

	EHRA 2013	EHRA 2015	EHRA 2017	EHRA 2018	EHRA 2019
Number of Satellite symposia	23	18	18	18	18

5.6.2 Practical tutorials

Biosense and Boston Scientific ran sessions from Sunday 17 to Tuesday 19 March. No attendance figures are available as the ESC was not involved in the organisation of these sessions.

Account Name	Quantity	Room Size/Capacity
Biosense Webster Europe	1	47.5m ²
Boston Scientific International SA	1	49m²
Boston Scientific International SA	1	52m²

	EHRA 2013	EHRA 2015	EHRA 2017	EHRA 2018	EHRA 2019
Number of Practical tutorials	4	4	5	3	3

5.6.3 Experts on the spot

These short style sessions arranged in the AGORA located in the vicinity of the exhibition are designed to ensure experts interact with delegates.

Accourt Name	Slot	Attendance	Capacity
ABBOTT	Experts on the Spot Sunday 15:45-16:15 - Exhibitor	100%	80
ABBOTT	Experts on the Spot Monday 10:15-10:45 - Exhibitor	125%	80
ABBOTT	Experts on the Spot Monday 15:45-16:15 - Exhibitor	100%	80
Medtronic	Experts on the Spot Tuesday 10:15-10:45 - Exhibitor	100%	80
Medtronic	Experts on the Spot Monday 10:15-10:45 - Exhibitor	100%	100
Pfizer Ltd	Experts on the Spot Monday 15:45-16:15 - Exhibitor	100%	100

	EHRA 2013	EHRA 2015	EHRA 2017	EHRA 2018	EHRA 2019
Number of Experts on the spot	N/A	1	5	5	6

5.7 Industry feedback

5.7.1 Industry Debrief

Feedback from Industry Partners on EHRA 2019

- Participation: Industry are very pleased with the increase in participation compared to the challenging year of 2018. Overall, the Industry congratulated ESC for the successful organisation of the congress. The exhibition was busy and Lisbon is an attractive destination.
- Sessions: All sessions were well attended
- Agora: The Agora is a successful format, with high demand and well attended. This year exceptionally, due to the limited time slots a room was set up outside the exhibition area to host two extra Expert on the Spot sessions. It was shared with the Industry that we will spend time looking at solutions to expand the Agora moving forward.
- Congress overlapping: Concerns were expressed on overlapping dates between ACC Congress and EHRA Congress.
- Registration: Needs to be more fluid in the future. especially on the first day of the congress.
- Badging: Leni badge scanners are considered as poor quality and old fashioned. Some Industry Partners experienced new badge systems and overall experience was better.

Feedback from Industry Partners mainly related to the venue

- Congress layout: Although Lisbon Congress Center was not a straightforward venue, the way the layout was arranged created fluidity and allowed good traffic flow throughout the congress.
- Lisbon Congress Center supplier: Industry faced many challenges with the local supplier (slow to react to requests). ESC was made aware and shared frustration of Industry Partners with the supplier in order to ensure a better quality of delivery in the future.
- Meeting rooms: Considered as too far from the exhibition area, they caused challenges to bring Industry prospects to the room. Signage was not sufficient. Industry partners request to have venues with meeting rooms closer to the Exhibition area.

6 Publications

6.1 Flyer (formerly called First announcement):

1st Print: March 2018 – 2 000 ex 2nd Print: May 2018 – 2 000 ex 3rd Print: August 2018 – 1 500 ex

6.2 Advance programme:

The advance programme was replaced by a marketing page, regularly updated according to the congress dates (congress programme, registration, attendance guide). The link was shared in emails and bulletins.

6.3 Final programme:

Launched 06/03/2019. Shared on escardio.org and in attendance guide email sent 8 March. Opened 2,341 times.

6.4 Programme at a glance:

Launched 14 -02-2019 6 000 ex

6.5 Congress News

Facts & Figures

- Production team: The agency involved in the design and medical writing: TMC/ wearetmc.co.uk/services 2 TMC team members; 1 editor-in-chief (Jan Steffel), 1 ESC staff
- 7,000 printed copies
- 24 industry inserts (9-11-4) and 4 ESC inserts (3-1-0)
- 6 ESC adverts slots (2 per day)
- 15 articles (5 per edition)

	Format	Content	Audience	Qtty
Printed edition – by day	A3 format /4 Pages + Industry adverts inserts	Scientific articles & Corporate and Industry Adverts	All onsite delegates	D1: 3,000 copies D2: 2,500 copies D3: 1,500 copies
E-congress news DAILY	emailing	Scientific articles Corporate and Industry Adverts	All onsite delegates	D1: 2,527 D2: 2,548 D3: 2,568
		On site activities Association & ESC news	Non attending EHRA members	D1: 1,217 D2: 1,240 D3: 1,242
Day 1: Sunday	17 March 2019	Day 2: Monday 18 March 2019	Day 3: Tuesday 19	March 2019
	Den and EHRA 2019 mostic & therapeutic	<section-header><section-header></section-header></section-header>	EHRA 2019: Encouraging innovation and involvement INNOVATION	

6.6 Ads for print

- *EP Europace*: all issues from July 2018 to March 2019.
- o Cardiac Rhythm News
- o Revista Portuguesa de Cardiologia
- o European Journal of Arrhythmia & Electrophysiology

7 Electronic Communications

Key stats

Communication channel	Reach
My ESC News	63,484 subscribers
EHRA Bulletin	46,730 subscribers
EHRA Members Newsletter	2,811 subscribers
ESC Facebook	
ESC Twitter	
ESC Linked In	

7.1 Promotional e-campaigns

	Sends	OpenRate	ClickRate
AVERAGE:	31951	29,69%	7,08%

7.1.1 Dedicated e-campaigns

17 dedicated e-campaigns were developed with good open rates and click rates:

Email type	Send Date	Sends	OpenRate	ClickRate
Save the date	28/06/2018	51847	22,26%	2,6%
Call for Science - abstracts	20/08/2018	54721	25,7%	1,96%
Reminder – abstracts & grants	12/10/2018	57852	27,52%	2,45%
Abstract subm – ext deadline	22/10/2018	2595	49,34%	6,48%
Call for Science - LBT	05/11/2018	2482	29,94%	2,95%
Travel grants	30/11/2018	1111	56,04%	15,59%
Early fee	18/01/2019	56753	22,12%	2,81%
Late fee	15/02/2019	44702	23,23%	1,53%
Members' benefits	05/03/2019	2523	64,17%	7,44%
Attendance guide	08/03/2019	2298	68,81%	26,26%
Congress e-Daily news 1 - attendees	17/03/2019	2527	47,47%	14,85%
Congress e-Daily news 1 – members non-attending	17/03/2019	1217	41,53%	12,66%
Congress e-Daily news 2 - attendees	18/03/2019	2548	41,22%	13,82%
Congress e-Daily news 2 – members non-attending	18/03/2019	1240	39,79%	15,33%
Congress e-Daily news 3 - attendees	19/03/2019	2568	38,28%	12,37%
Congress e-Daily news 3 – members non-attending	19/03/2019	1242	34,44%	12,26%
Post congress survey	19/03/2019	2629	50,48%	30,32%

7.1.2 Promotion in bulletins and newsletters

Account	Email type	Send Date	Sends	OpenRate	ClickRate
EHRA	Bulletin	09/08/2018	45817	23,52%	2,74%
ESC	My ESC News	05/09/2018	61505	19,34%	4,96%
ESC	My ESC News	12/09/2018	61429	22,06%	3,84%
ESC	My ESC News	19/09/2018	61206	17,84%	3,75%
EHRA	Bulletin	20/09/2018	45264	22,49%	3,08%
EHRA	Bulletin	04/10/2018	43352	22,82%	3,03%
EHRA	Members' Newsletter	18/10/2018	2532	37,66%	12,26%
EHRA	Bulletin	01/11/2018	45487	11,99%	2,4%
ESC	My ESC News (A/B testing)	07/11/2018	61201	17,47%	3, 73%
EHRA	Bulletin	22/11/2018	45129	23,19%	2,61%
EHRA	Bulletin	07/12/2018	45009	23,39%	2,48%
EHRA	Bulletin	10/01/2019	44699	15,54%	2,9%
EHRA	Members' Newsletter	25/01/2019	1931	43,8%	11%
ESC	My ESC News	06/02/2019	60478	17,99%	5,43%
EHRA	Bulletin	07/02/2019	44641	23,91%	2,9%
EHRA	Bulletin	21/02/2019	44760	19,13%	2,41%
ACNAP	Bulletin	26/02/2019	15764	16,93%	2,86%
EHRA	Bulletin	07/03/2019	44721	16,27%	2,63%

The congress and its deadlines were also promoted in several bulletins and newsletters.

The congress resources were shared within various newsletters.

Account	Email type	Send Date	Sends	OpenRate	ClickRate
ESC	My ESC News	21/03/2019	60309	17,7%	3,41%
EHRA	Bulletin	28/03/2019	44167	17,28%	3,15%
EHRA	Bulletin	11/04/2019	43897	15,63%	2,26%

7.2 Transactional e-mailings

	Sends	OpenRate	ClickRate
AVERAGE:	2304	56,47%	2,73%

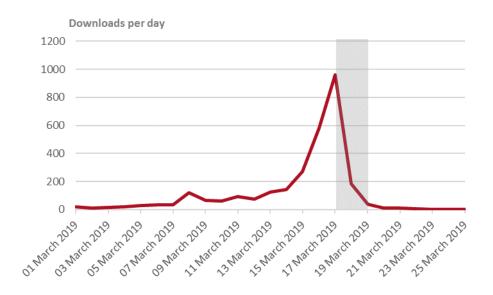
Email type	Send Date	Sends	OpenRate	ClickRate
General Assembly	12/02/2019	2304	56,47%	2,73%

7.3 ESC congress mobile app

7.3.1 Facts & Figures

- 3,781 downloads (+53% compared to 2018, however the module was launched much earlier - 10 January 2018 for EHRA 2018). 5,531 participants (+41% compared to 2018)
- Mobile app promoted in 4 newsletters/e-campaigns for a total of 65,272 recipients
- Search: mostly used to search for speakers/Faculty
- Major user interactions with the app:
 - Access the Daily Schedule (85%)
 - Access the Latest Messages section (67%)
 - Search functionality (53%)
- Resource consultation:
 - o 4,264 resource requests received from 1 March until 10 April
 - 1,366 resource requests on Monday 18 March (congress day 2)
 - o 683 unique resources requested
 - 313 unique My ESC Account holders hit the "Receive Resources" button and did so for an average of 14 different presentations – median is at 5.

7.3.2 Downloads per day: Focus on 1 March – 25 March



Downloads per period

Devied	201	9	2018	2018		
Period	No. of downloads	No. of downloads Distribution		Distribution		
Pre-Congress	2,545	67%	1,664	67%		
Congress Day 1	960	25%	617	25%		
Congress Day 2	185	5%	129	5%		
Congress Day 3	37	1%	33	1%		
Post-Congress	54	1%	24	1%		
TOTAL	3,781	100	2,467	100		

More than 67% of downloads were completed before the congress had started. Note: 1,117 downloads were completed within the 4 days that preceded the congress representing 44% of precongress downloads. Hence, even if 67% of the downloads took place before the congress, almost half of them are completed during the final week leading up to the congress.

7.3.3 Downloads per language

Information related to user language gives an indication about user demographics. It reflects the language setting on the user's device (as opposed to the country where the app was downloaded, or where users come from).

The table below displays the top fifteen ranking of language settings depending on the number of downloads in 2017.

Language	2019 - D	ownloads	2018 – D	ownloads
	Number	Distrib. (%)	Number	Distrib. (%)
English	1183	29%	810	33%
German	473	12%	303	12%
Chinese	338	8%	15	0%
Dutch	302	7%	199	8%
French	249	6%	164	7%
Italian	230	6%	171	7%
Portuguese	219	5%	75	3%
Spanish	151	4%	142	6%
Russian	151	4%	104	4%

Language	2019 - D	2019 - Downloads		ownloads
	Number	Distrib. (%)	Number	Distrib. (%)
Japanese	110	3%	50	2%
Polish	89	2%	55	2%
Swedish	67	2%	63	3%
Danish	59	1%	53	2%
Hungarian	59	1%	47	2%
Czech	53	1%	24	1%

Congress location is usually an important factor explaining the number of downloads per locale.

This top 10 represents 83% of total downloads.

7.3.4 User behaviour

Overall functionalities

The three most used functionalities are

- Access the Daily Schedule (85%)
- Access the Latest Messages section (67%)
- Search functionality (53%)

Mobile App interactive sessions

There were 76 "Mobile App – Ask a question" and 18 "Mobile App – Vote and Ask a question" sessions.

- Maximum number of votes per session: 1,929 ("How to interpret difficult ECGs and intracardiac electrograms") with a maximum of 145 answers received for one question
- Average number of voters per session: 45
- Maximum number of questions asked per session: 18 ("Clinical conundrums in patients with CIEDs")
- Average number of questions asked per session: 4

Receive the resources post congress button

This functionality was implemented in 2015 for ESC Congress and was made available for subspecialty congresses following ESC Congress 2018: when clicking on a presentation, the user has the possibility, by clicking on a dedicated button, to receive an email after the congress which includes the resources (direct link to ESC 365) of the selected presentation.

∎I Orange F 奈 ✔ Back	17:16 Presentation	د ۶ ۵ 62 % 💷 🔒		Orange F 🤇 Back	17:17 Online resources address of the second sec	د ⊽ ७ 62 ccess
SUNDAY, My patier mediated Minimise	08:48 - 09:06 nt with neura d syncope - e symptoms b d pacing algo	+ Ily by		ESC 365: Al Slides, absti congress wi in less than presenter gi	l congress resources in on racts and videos presentec II be available within the ag 2dh post presentation, if ti rants the ESC the rights to or educational purposes.	e online library! I during this op and on ESC 3 he speaker/and
E Note		Evaluate		Online acces		
	slides & videos or	alina		/ideo		
Session		+)			
Contraction Contraction						
Room	ire room - Coume	6		۲ ۲	Receive all resources b	oy email

In total, there were:

- 4,264 resource requests received from 1 March until 10 April
- **1,366** resource requests on Monday 18 March (congress day 2)
- 683 unique resources requested
- **313** unique My ESC Account holders hit the "Receive Resources" button and did so for an average of **14** different presentations 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 is as follows:

	Presentation title	Related session	No. times requested
1	ICD programming - Optimising arrhythmia detection and termination	Mastering ICD therapy	55
2	Algorithms to increase CRT effectiveness	Individualising CRT - A case-based approach	52
3	Idiopathic ventricular fibrillation - Diagnostic pathway and therapeutic strategies	Sudden cardiac death - Old and new questions	42
4	My patient with recurrent episodes but uncertain diagnosis - Efficient work-up	Syncope - Translation of guidelines into clinical practice	41
5	Physiology of direct His bundle pacing	Direct His bundle pacing - True physiological stimulation	39
6	Current indications	Direct His bundle pacing - True physiological stimulation	37
7	How to interpret difficult ECGs and intracardiac electrograms - Part 1	How to interpret difficult ECGs and intracardiac electrograms	36
	ESC TV at FURA 2010 report		11

8	Implantation technique	Direct His bundle pacing - True physiological stimulation	35
9	Programming and follow-up	Direct His bundle pacing - True physiological stimulation	33
10	The 12-lead ECG as a daily, indispensable, companion	The 12-lead ECG as a daily, indispensable, companion	32

Evaluation form functionality

This year, users were able to evaluate sessions and presentations – possibility to rate (between 1 and 5, 5 being the best rating) and send their comments.

	Sessions	Presentations
Rating - average	4.4	4.5
Rating - median	5	5
Number of unique evaluated	65	143
items		
Total number of votes	107	174
Number of comments sent	20	18

Most of the comments received were highly positive.

Splash screens

This feature was launched in 2017 giving industries the possibility to buy splash screens (adverts) that were displayed for 4 seconds every time the app was launched during a specific time frame.

Splash screens	Views	Average time viewed (in sec)	No. devices	No. views per device	No. closed by user on a device
Abbott Novel approaches in HF management – Sunday am	6,487	2.1	2,264	2.9	3,327
Abbott Advance mapping & Imaging for ventricular tachyarrhythmia ablation – Sunday pm	1,585	2.1	903	1.8	928
Abbott <i>Treating HF with device</i> <i>therapies: what's new?</i> – Monday am	6,692	2.1	2,268	3.0	4,051
Abbott Transcatheter mitral valve repair in functional mitral regurgitation: time to treat! – Monday pm	1,414	2.1	847	1.7	908
Medtronic <i>The growing prevalence of AF: the need for</i>	3,301	2.1	1,414	2.3	1,921

Splash screens	Views	Average time viewed (in sec)	No. devices	No. views per device	No. closed by user on a device
<i>devices that detect, reduce, and</i> <i>respond to AF</i> - Tuesday am					

Views: number of views per device

Average time viewed: average time in seconds a splash screen is viewed

No. devices: number of devices on which a splash screen has been displayed

No. views per device: number of times a splash screen has been displayed on one device

No. closed by user on a device: number of times a splash screen has been closed before the end of the display period (4s)

A push notification was also linked to these splash screens and sent 30min before the session started:

Message from	Date sent	Views	No. users	Views per user	Percentage of users
Don't miss Abbott Satellite Symposium at 12:45 in Senning	Sun 17 March (am)	512	420	1,2	11%
Don't miss Abbott Satellite Symposium - Experts on the Spot at 15:45 in Agora	Sun 17 March (pm)	393	346	1,1	9%
Don't miss Abbott Satellite Symposium at 12:45 in Wenckebach	Mon 18 March (am)	351	313	1,1	8%
Don't miss Abbott Satellite Symposium - Experts on the Spot at 15:45 in Agora	Mon 18 March (pm)	317	295	1,1	8%
Don't miss the Medtronic Satellite Symposium at 12:45 in Wenckebach: Devices that detect, reduce and respond to AF	Tues 19 March (am)	244	228	1,1	6%

Total number of messages sent on the same day:

- 9 messages were sent on 17 March
- 9 messages on 18 March
- 4 messages on 19 March

User behaviour regarding home menu buttons

Rank	Name	Views	No. of users	Views per user	% of users
1	Daily Schedule	38,657	3,318	11.7	85%
2	My Programme	21,480	1,720	12.5	44%
3	My Congress	18,936	1,916	9.9	49%
4	Search	11,381	2,076	5.5	53%
5	Latest Messages	11,147	2,581	4.3	67%
6	Interact now	6,703	999	6.7	26%
7	By Topics	5,210	1,879	2.8	48%
8	By Types & Tracks	5,207	1,878	2.8	48%
9	General Info	2,897	1,357	2.1	35%
10	By Types & Tracks	2,010	1,044	1.9	27%

Full mobile app report available on demand.

7.4 Banners

Electronic banners were created in different formats and displayed on:

- EP Europace from October 2019 to April 2019
- o TouchCardio
- o Cardiac Rhythm News

7.5 Promotional Video

An inaugural video was recorded to substitute the opening session. The footage portrayed ESC President, Prof. Barbara Casadei, EHRA President, Prof. Hein Heidbuchel and EHRA Congress Scientific Programme Committee Chair, Prof. Haran Burri. The video was simultaneously launched in all lecture rooms at the beginning of the 2nd session on the first day of the congress: 17 March, at 11.00.

It was included among the congress resources and available on ESC 365.

7.6 ESC TV

The recordings were held from 17-19 March 2019 including the daily wrap-ups.

Overall, a total of 16 videos were recorded and released during a 3 day-period.

7.6.1 Late breaking clinical trials & featured clinical research

The interview format was a "speech to camera" ofmaximum 3 minutes. The interviewee was a discussant of the related session (panel member), and not a presenter as previously done on ESCTV programmes, in order to try and get a more independent point of view. As a result, no interview was recorded prior to the related session as interviewees needed to have a full understanding of the presentation content beforehand. Therefore, interviews were not released directly after the embargo-lift, but at a later stage during the day.

A 15-minute slot was booked for each faculty: briefing and preparation, set up and recording of the interview (preferably in one take).

7.6.2 Wrap-up

Wrap-up format: +/- 10-minute discussion on highlights, hot news and key take-home messages of the day.

7.6.3 Video dissemination

The videos were posted on the ESC TV @EHRA 2019 playlist on YouTube, and on the dedicated page on ESC website.

7.6.4 ESC TV analytics

Analysed period: 17 March (first videos were published on that day) until 2 April included.

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

Video Title	Interviewee	Video length	Yo	ouTube channe	I	Facebook	Twitter	LinkedIn	ESC 365
			Average time watched	Average percentage watched	No. of views				No. of views
Controversies in atrial fibrillation ablation	J. Kautzner	01:28	01:06	75.0%	1,032				7
Knowledge gaps in anticoagulation for AF	J. Steffel	02:52	01:54	66.3%	1,234	Total Reach: 11,848 Total Impressions: 17,374 Engaged Users: 498 Views: 2,526	Impressions: 1,761 Engagements: 30 Engagement rate: 1.7%		4
The CIRCA-DOSE Study	D. Scherr	02:39	01:42	64.2%	1,159			Views: 2,507 Impressions: 2,507 Likes: 44 Engagement rate: 1.89%	1
AF-FICIENT 1 Trial	P. Sommer	02:27	01:18	53.1%	1,409	Total Reach: 9,351 Total Impressions: 13,747 Engaged Users: 341 Views: 1,915		Views: 1,409 Impressions: 6,140 Likes: 38 Engagement rate: 1.89%	2
The Daily Wrap Up - Sunday 17 March 2019	G. Hindricks with M.	11:15	04:42	41.8%	1,697	Total Reach: 8,168	Impressions: 2,871		-

Video Title	Interviewee	Video length	Yo	ouTube channe	I	Facebook	Twitter	LinkedIn	ESC 365
			Average time watched	Average percentage watched	No. of views				No. of views
	Duytschaever and C. Sticherling					Total Impressions: 11,611 Engaged Users: 233 Views: 1,344	Engagements:38 Engagement rate: 1.3%		
WRAP-IT: Discussions	M. Biffi	01:59	01:30	75,6%	482	-	-	-	Not on 365 during analysed period
WRAP-IT: Investigator's key messages	B. Wilkoff	01:47	01:12	67,3%	622	-	-	-	-
ElectroCRT	K. Ellenbogen	02:34	01:42	66.2%	695	-	-	-	3
News from EP Europace	G. Hindricks	04:45	02:48	58.9%	646	Total Reach: 5,215 Total Impressions: 7,709 Engaged Users: 111 Views: 665	Impressions: 1,809 Engagements: 17 Engagement rate: 0.9%	-	Not on 365 during analysed period
Workflow for paroxysmal AF ablation: new direction	H. Puererfellner	02:25	01:30	62.1%	1,078	-	-	Views: 1,784 Impressions: 6,498 Likes: 54 Engagement rate: 1.79%	4

Video Title	Interviewee	Video length	Yo	ouTube channe	I	Facebook	Twitter	LinkedIn	ESC 365
			Average time watched	Average percentage watched	No. of views				No. of views
ELIMINATE-AF Trial	T. Potpara	01:49	01:06	60.6%	1,587	-	Impressions: 4,384 Engagements: 119 Engagement rate: 2.7%	-	4
The Daily Wrap Up - Monday 18 March 2019	H. Burri with C. Blomstrom- Lundqvist and H. Puererfellner	09:35	04:12	43.8%	1,757	Total Reach: 6,070 Total Impressions: 8,797 Engaged Users: 149 Views: 899	Impressions: 5,350 Engagements: 32 Engagement rate: 0.6%	-	-
ESC Reaction to The Apple Heart Study	H. Burri	02:59	01:48	60.3%	1,557	-	-	-	1
AVATAR AF - A word of caution	G. Hindricks	03:38	02:18	63.3%	1,722	-	-	-	6
The OPT-PACE trial	G. Milasinovic	01:37	01:18	80.4%	1,111	-	-	Views: 1,239 Impressions: 5,573 Likes: 29 Engagement rate: 1.44%	1
Monitors for cardiac arrhythmias	E. Svennberg	03:44	01:48	48.2%	1,398	-	-	-	N/A
The Daily Wrap Up - Tuesday 19 March 2019	J. Camm with I. Van Gelder	08:47	03:36	41.0%	1,889	Total Reach: 6,404	Impressions: 3,054	-	-

Video Title	Interviewee	Video length	Yo	ouTube channe	I	Facebook	Twitter	LinkedIn	ESC 365
			Average time watched	Average percentage watched	No. of views				No. of views
						Total Impressions: 9,448 Engaged Users: 198 Views: 1,023	Engagements: 27 Engagement rate: 0.9%		

Facebook

Total Reach: The number of people who had your Page's post enter their screen. Posts include statuses, photos, links, videos and more.

Total Impressions: The number of times your Page's post entered a person's screen. Posts include statuses, photos, links, videos and more.

Engaged Users: The number of unique people who engaged in certain ways with your Page post, for example by commenting on, liking, sharing, or clicking upon particular elements of the post.

Video views: The number of times your video was watched for at least 3 seconds, or for nearly its total length, whichever happened first within the selected date range.

Twitter

Actual Impressions:

Total times a post was served to newsfeeds

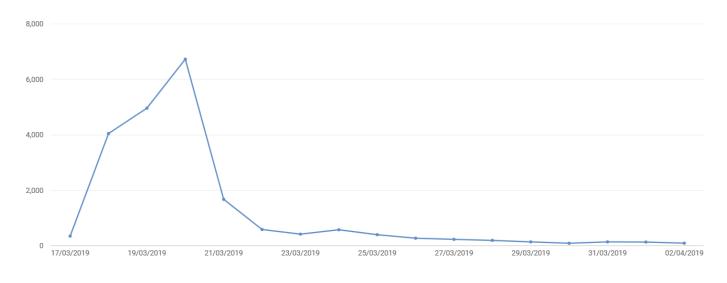
Engagements:

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:

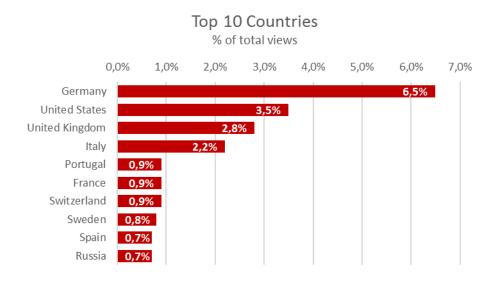
The number of engagements (clicks, retweets, replies, follows and likes) divided by the total number of actual impressions

Total views over time on YouTube channel



Top 10 Countries watching ESC TV on YouTube

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



Comparison with ESC TV at EHRA 2018

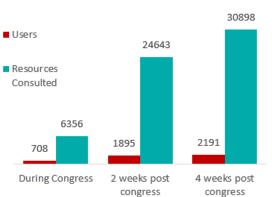
	EHRA 2019 Lisbon - Portugal	EHRA 2018 Barcelona - Spain
Number of ESC TV videos covering this event	16	19
Total number of video views (within 3 weeks for 2018 and 2	21,075 views on YouTube 15,300+ views on Facebook &	25,369 views
weeks for 2019, from the first day on the Congress)	LinkedIn 131,130+ impressions on Facebook	(545 on escardio + 24,824 on YouTube)
	 Twitter – LinkedIn 1,950+ engagements on Facebook Twitter – LinkedIn 	+ 1,2K views on Facebook (1 video published)

	EHRA 2019 Lisbon - Portugal	EHRA 2018 Barcelona - Spain
	6 videos published on Facebook and Twitter, 4 on LinkedIn 33 views on ESC 365	(LinkedIn using to YouTube links)
Highest engagement rate for a single video (average % of a video that viewers watched	80.4%	64.3%
Top countries (in terms of number of views)	Germany, U.S., UK, Italy	Germany, Austria, UK, U.S., Italy

7.7 ESC 365

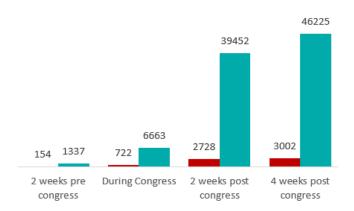
During EHRA Congress 2019, 722 users consulted 6 663 EHRA resources on the ESC 365 platform. 98.1% of these consultations were of scientific resources from EHRA Congress 2019.

EHRA 2019 Congress resources remain free to all for 3 months before becoming an EHRA member benefit. Resources from previous EHRA Congresses are an EHRA member benefit. There has been continued high usage of ESC 365 in the 4 weeks post-congress with over 3000 individual users having consulted over 46 200 scientific resources.



Users and consultations of EHRA Congress 2019 resources

Users and consultations of all EHRA congress resources



7.8 Webpages

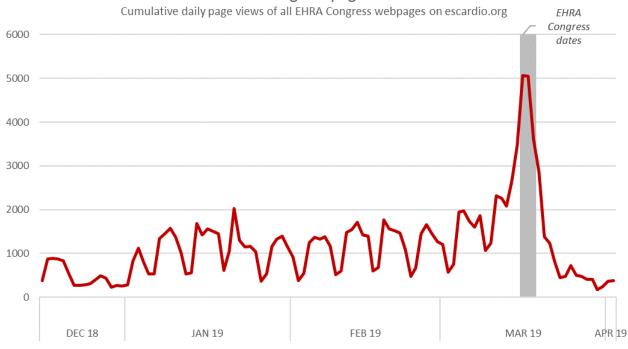
Total views of Congress webpages during EHRA Congress 2019 (17-19 March): 11 524

Day 1: 5 057

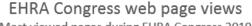
Day 2: 3 602

Day 3: 2 865

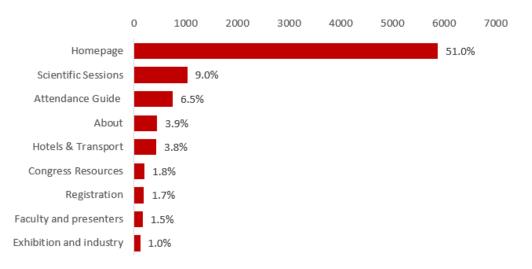
EHRA Congress page views



The most visited page <u>during the congress</u> was the EHRA Congress homepage with **5 880** page views (51% of total views).



Most viewed pages during EHRA Congress 2019



7.9 Social media activity

A promotional slide was created and shared with the volunteers, and a speaker slide was designed to be used during the congress by all speakers.

Congress is promoted in printed brochures: EHRA corporate brochure, EHRA annual report, ESC annual report, etc.

Facebook - Top Posts

Published by Lavinia Baciu [?] - March 11 - 🐼

Expect the unexpected

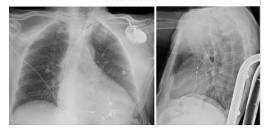
Your ECG challenge by Jose L. Merino, Antonio Rojas, Alberto Cecconi, Jesus Jimenez Borreguero, Madrid, Spain.

An 83-year-old man with a recent history of complete atrioventricular block treated with a pacemaker elsewhere presented for routine clinical follow-up. He had chest X-Ray and a ECG taken (fig. 1 & 2 below).

What is the diagnosis?

- A. VDD pacemaker, normal lead function
- B. VDD pacemaker, lead dysfunction (no sensing)
- C. VDD pacemaker, lead dysfunction (no capture) D. DDD pacemaker, normal lead function
- E. DDD pacemaker, lead dysfunction (no capture)

#EHRA_ESC



Post Total Reach: 35341

Post Total Impressions: 58369

Engaged users: 3601



...

European Society of Cardiology Published by Camille Dubecco (?) - March 4 -

Clinical case challenge by doctors Ilaria Cazzoli, Silvia Guarguagli & Sabine Ernst, UK.

...

A 29-year-old woman, symptomatic with palpitations, was admitted electively for catheter ablation of atrial tachycardia (AT). She had a history of complex congenital heart disease for which she underwent at the age of 2 years a coronary sinus type-ASD repair with connection of a persistent left superior vena cava to the right superior vena cava and mitral valvotomy for parachute valve. Two months later she had mitral valve replacement (MVR) with implantation of a 23mm Medtronic prosthesis in supra-annular position. At the age of 15 years she represented with septic shock and evidence of endocarditis of the prosthesis, thus she underwent a re-do MVR with implantation of a supra-annular 25mm St Jude mechanical prosthesis (upside down position). She later developed shortness of breath and sustained atrial tachycardia despite previous multiple DCCVs and regardless of antiarrhythmic therapy with amiodarone and bisoprolol. Therefore, she was referred for catheter ablation.

On admission, 12-lead ECG showed AT with a heart rate of 95-115bpm. A transthoracic echocardiography was performed, which showed severely impaired left ventricular function, good prosthetic mitral valve function and an abnormal "fifth chamber"

European Society of Cardiology @ added a new photo to the

EHRA

Published by Camille Dulbecco [?] - March 18 at 4:19 PM - 6

What structure is the extra fifth chamber?" #EHRA_ESC

Post Total Reach: 21780

Post Total Impressions: 31986

album: #EHRA2019.

Engaged users: 1309



The #AppleHeartStudy - watch the interview on the results of this largescale, app-based study to identify atrial fibrillation using a smartwatch. You can meet the trialists of this study at #EHRA2019 https://bit.ly/2TAj9gw



The Apple Heart Study

Results Of A Large-scale, App-based Study To Identify Atrial Fibrillation Using A Smartwatch

Anne Curtis

Post Total Reach: 15130
Post Total Impressions: 23514
Engaged users: 555

Post Total Reach: 14763 Post Total Impressions: 29558

Engaged users: 1897





Engaged users: 449

Engaged users: 498

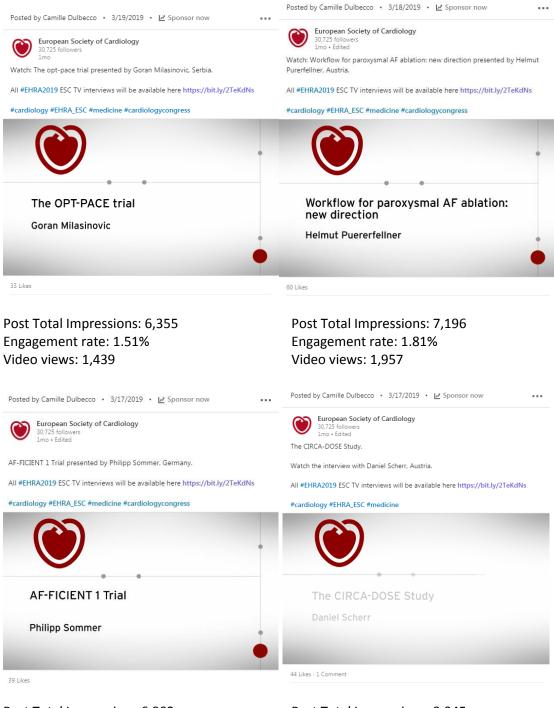
Twitte	r - Top Posts	Impressions	Engagements	Engagement rate
٢	European Society of Cardiology @escardio · Mar 17 #EHRA2019 @DrJasonAndrade presents the results of the CIRCA-DOSE trial. (thread) pic.twitter.com/MIxNcC1TwJ View Tweet activity	10,109	1,412	14.0% Promote
٢	European Society of Cardiology @escardio · Mar 19 #EHRA2019 EP tracings open, here's another quiz for you, questions below	9,531	357	3.7%
	What's the most likely diagnosis? #EHRA_ESC #EPeeps pic.twitter.com/0sjA00ZRd7 View Tweet activity			Promote
٢	European Society of Cardiology @escardio · Mar 17 Cryoballoon ablation (CBA) for treatment of permanent atrial fibrillation (a-fib) has emerged as a reliable alternative approach to radiofrequency ablation. What's your opinion on this? #EHRA2019 pic.twitter.com/IUD6K4AQ3I	8,790	243	2.8%
٢	European Society of Cardiology @escardio · Mar 17 #EHRA2019 live from Madrid with F Zanon & team- His bundle pacing in left bundle branch block- continued. pic.twitter.com/8WR2CyN8nK View Tweet activity	6,655	120	1.8% Promote
٢	European Society of Cardiology @escardio · Mar 19 .@HH4EHRA -' #AppleHeartStudy discussed at #EHRA2019 reassuring low false positive rate; some remaining questions on sensitivity.Definitely the beginning of new era of patient directed measurements on which physicians will have to act.We better organise ourselves!' @AndreaRussoEP pic.twitter.com/SgNivILb8V	6,552	130	2.0%

Promote

٢	European Society of Cardiology @escardio · Mar 18 Results of RESULT study presented: remote supervision of patients with HF and CIED. Reduced hospitalization with remote monitoring. #EHRA2019 pic.twitter.com/5TDZGGKYGY View Tweet activity	5,810	189	3.3%
٢	European Society of Cardiology @escardio · Mar 18 Internal vs external electrical cardioversion of #afib patients w/ an ICD: a randomised controlled clinical trial. Comments by I Van Gelder. #EHRA2019	5,586	274	4.9%
	pic.twitter.com/7tBcJJcplx View Tweet activity			Promote
٢	European Society of Cardiology @escardio · Mar 19 #EHRA2019 day two wrap-up hosted by Haran Burri, Switzerland w/ Carina Blomstrom-Lundqvist, Sweden & Helmut Puererfellner, Austria bit.ly/2TgdTtm	5,516	32	0.6%
	All #EHRA2019 ESC TV interviews will be available here bit.ly/2HyWjPn			
	#cardiotwitter #cardiology #EHRA_ESC #EPeeps			Promoto
Õ	European Society of Cardiology @escardio · Mar 18 #EHRA_ESC consensus paper on Asymptomatic #Arrhythmias - approach, evaluation, consequences & mgmt, with D. Arnar. #EHRA2019	5,297	276	5.2%
	@ABollmannMD @Moscoso_Costa @jlmerino0 @SteffelJ pic.twitter.com/IVEj8Dual8 View Tweet activity			Promote
٢	European Society of Cardiology @escardio · Mar 19 #EHRA2019 EP tracings open, here's a quiz for you, 3 questions below #EHRA_ESC #EPeeps pic.twitter.com/OF83g65bdt	5,126	198	3.9%
ESC Tw	vitter Journals - Top Posts			
		16,710	1,839	11.0%
Must	bean Society of Cardiology Journals @ESC_Journals · Mar 18 read! Management of asymptomatic #arrhythmias 2Y2tSzb			
#ehra	cardio #EHRA_ESC #Europace #ESCCoT a2019 @HH4EHRA @johncamm @ABollmannMD /itter.com/Flj4n8EFaF			Bromoto
\bigcirc		14,234	700	4.9%
Sex d	ean Society of Cardiology Journals @ESC_Journals · Mar 30 ifferences in rate and rhythm control for atrial tion bit.ly/2U9FuBc			
	cardio #Europace #EHRA_ESC #ESCCoT access pic.twitter.com/adQKcZMxDc			
	at ELIDA 2010 report			FC

	11,463	605	5.3%
European Society of Cardiology Journals @ESC_Journals · Mar Antithrombotic treatment in patients with atrial fibrillation and acute coronary syndromes: results of the #EHRA_ESC survey bit.ly/2HEmTGJ	20		
@escardio #Europace #ESCCoT #freeaccess pic.twitter.com/dW0Ayqcrzb			Promoto
\bigcirc	9,930	522	5.3%
European Society of Cardiology Journals @ESC_Journals · Ma Atrial fibrillation ablation in practice: assessing CABANA generalizability bit.ly/2W8y7Y9	ar 17		
@escardio @TomLuscher #EHJ #EHRA2019 #ESCCoT #freeaccess pic.twitter.com/Sv8Jjz0Hz5			
	9,308	210	2.3%
European Society of Cardiology Journals @ESC_Journals Ma All eyes on Lisbon for EHRA Congress 2019 - "Implementing diagnostic & therapeutic innovations in daily practice"! Official hashtag is #EHRA2019 !! Stay w/ us for the latest science & some of the most interesting papers published recently in #Europace! @escardio #EHRA_ESC #ESCCoT pic.twitter.com/LLBqf8XtFe LinkedIn	r 17		Russes de .
Posted by Camille Dulbecco • 3/22/2019 • 🛃 Sponsor now	Posted by Camille Dulbecco • 3/21/2019 • 🛃	Sponsor now	
European Society of Cardiology 30,725 followers 3w + Edited	European Society of Cardiology 30,725 followers 3w #EHRA2019 has come to an end, but the science is	- here to staul	
Your top 3 highlights from #EHRA2019	You can now review the congress resources on ESC videos, reports - free access for everyone for the n	365 - abstracts, slide sets,	
#EHRA_ESC #cardiology #EPeeps John Camm Francisco Moscoso Costa Ruben Casado Arroyo Jan Steffel Pawel Balsam, BA, MD, PhD Valentina Kutyifa MD, PhD Hein Heidbüchel Carol Ann Remme Lluis Mont	https://lnkd.in/dG6yVUX #cardiology #EPeeps #EHRA_ESC #medicine		
EHRA 2019 THE ANNUAL CONGRESS OF THE EUROPEAN HEART RHYTHM ASSOCIATION	What is a successful ablation	on outcome	
Top 3 highlights from #EHRA2019	EHRA2019 Notest Table		P
	110 Likes		

Post Total Impressions: 8,992 Engagement rate: 1,97% Video views: 2,449 Post Total Impressions: 9,729 Engagement rate: 3.52%



Post Total Impressions 6,902 Engagement rate: 1.84% Video views: 1,570 Post Total Impressions: 9,945 Engagement rate: 1.86% Video views: 2,674

Publiée le 18/03/2019, à 11:49

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EHRA EHRA EHRA EHRA EHRA EHRA EHRA EHRA	٢	#cardioloffe #cardiologists #instacardic #picoftheday #cardiologia #cardiology #health #cardiovascular #heart #cardiocongress #picture #instadoc #cardiologyfellow #smiles #selfies #learn #science	D	Découverte ③	7,75 Comptes a % ne vous su	atteints	
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					Publiée le 14/03/	2019, à 14:49	
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Reported in Journal of Electrocardiography 2017	2 814	vues		Impressions			11,225
					Publiée le 11/03	3/2019, à 08:49	
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	~			Interactions			
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		Your ECG challenge by Jose L. Merino Antonio Rojas, Alberto Cecconi, Jesu: Jimenez Borreguero, Madrid, Spain.	0, 5	Clics vers le sit			3
		An 83-year-old man with a recent history of complete atrioventricular block treated with a pacemaker elsewhere presented for routine			10,3 Comptes 19 % ne vous	atteints	
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				Impressions			24,470



8 Press

8.1 Key Numbers

Press coverage	Date	Articles	Potential Reach	Top Coverage
<u>EHRA 2019</u>	16-19 March 2019	456	7.18M	
Blood pressure control reduces dementia risk in mid-life patients with atrial fibrillation	18 March 2019	9	29.5K	<u>CorriereDellaSera</u> NDTV
Novel electrocardiogram uses signals from ear and hand to check heart rhythm	18 March 2019	77	1.58M	<u>El Correo</u>
Tilt training prevents fainting	18 March 2019	21	61.2K	<u>La Razòn</u>
New practice corrects pump function in heart failure	18 March 2019	37	35К	<u>Breitbart</u>
Remote monitoring keeps heart failure patients out of hospital	18 March 2019	22	10K	<u>ScienceDaily</u>
Abnormal heart rhythm detected by smartwatch: what does it mean?	17 March 2019	17	128K	<u>MedicalXpress</u>
<u>Commonly used heart drug</u> associated with increased risk of sudden cardiac arrest	17 March 2019	65	1.29M	<u>TCTMD</u>
<u>"Back to basics" atrial</u> <u>fibrillation procedure could</u> <u>slash waiting lists</u>	17 March 2019	16	12.5K	
Discovery of atrial fibrillation subtypes paves way for precision medicine	15 March 2019	6	6K	

8.2 Charts

VOLUME - SPLIT BY COUNTRY



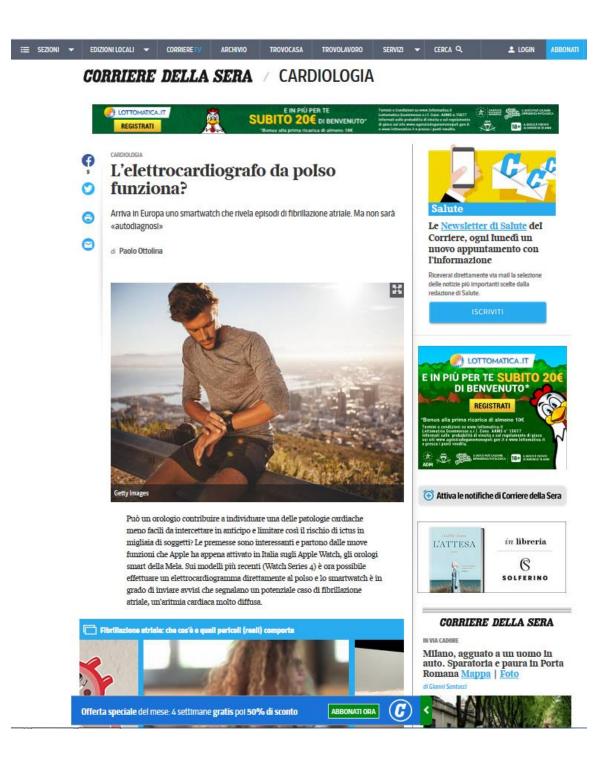
ESC TV at EHRA 2019 report

8.3 Clippings

8.3.1 Outlet: El Correo, Spain



8.3.2 Outlet: Corriere Della Sera, Italy



8.3.3 Outlet: NDTV, India





SECTIONS HOME HEALTH

Taking This Drug For High Blood Pressure Can Increase **Risk Of Sudden Cardiac Arrest: Study**

The study examined if nifedipine and amlodipine, dihydropyridines widely used for high blood pressure and angina, are linked with out-of-hospital cardiac arrest. with | ANI | Updeted: March 19, 2019 10:08 (97

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PROMOTED

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A study conducted recently has observed that the common drug used for treating high blood pressure and angina (chest pain) is associated with an increased risk of out-ofhospital sudden cardiac arrest.

Sudden cardiac arrest causes around half of the cardiac deaths in Europe and one in five natural deaths. The heart stops pumping after a cardiac arrhythmia (ventricular fibrillation/ tachycardia); this can prove to be lethal in minutes if untreated. The results from the European Sudden Cardiac Arrest network (ESCAPE-NET) were presented today at EHRA 2019. It was set up to find the causes of arrhythmias so that it can be prevented. ESCAPE-NET is backed by the European Heart Rhythm Association (EHRA) of the European Society of Cardiology (ESC) and the European Resuscitation Council (ERC).



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Amsterdam, Netherlands, urged caution when interpreting these results. He said, 'The findings need to be replicated in other studies before action could be taken by doctors or patients. The study examined if nifedipine and amlodipine, dihydropyridines widely used for high

Dr Hanno Tan, ESCAPE-NET project leader and cardiologist, Academic Medical Centre,

blood pressure and angina, are linked with out-of-hospital cardiac arrest. The nifedipine doses most often used and studied in this investigation are 30 mg and 60 mg (90 mg is available but infrequently used) and the amlodipine doses are 5 mg and 10 mg. Standard practice is to start with a lower dose, then give a higher dose if blood pressure or chest pain are not sufficiently reduced.

The analysis was done using data from the Dutch Amsterdam Resuscitation Studies registry (ARREST, 2005-2011) and confirmed in the Danish Cardiac Arrest Registry (DANCAR, 2001-2014), both part of ESCAPE-NET. Patients with out-of-hospital cardiac arrest due to ventricular fibrillation/tachycardia were enrolled, plus up to five controls per patient matched for age and sex. Controls were from the Dutch PHARMO Database Network and the general population in Denmark. In total, the study included 2,503 patients and 10,543 controls in the ARREST analysis and 8,101 patients and 40,505 controls in the DANCAR analysis.

Current use of high-dose (>60 mg/day), but not low-dose (<60 mg/day), nifedipine was

8.3.4 Outlet: Breitbart, USAS

BREITBART



High-doses of either nifedipine or amlodipine, two forms of the drug dihydropyridine, are both associated with a high risk of out-of-hospital cardiac arrest, according to findings presented Monday at EHRA 2019. "Nifedipine and amlodipine are often used by many cardiologists and other physicians, and the choice often depends on the prescriber's preference and personal experience," Hanno Tan, a researcher at Academic Medical Center and study author, said in a news

release. "Both drugs are generally considered to be equally effective and safe and neither

t the same time, rescue personnel called APD because they identified additional concerns and factors that

Cardiac arrest occurs when the heart quivers and stops pumping blood. If untreated, this

"This study suggests that high-dose nifedipine may increase the risk of sudden cardiac arrest due to fatal cardiac arrhythmia while amlodipine does not. If these findings are confirmed in other studies, they may have to be taken into account when the use of either

Approximately 300,000 out-of-hospital cardiac arrests happen in the U.S. each year,

according to the Centers for Disease Control and Preventi

has been associated with sudden cardiac arrest."

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At the sa

can be deadly.

drug is considered," Tan said.



Do This Immediately if You Have Diabetes (Watch)



Brook Shields Finally Confirms the Rumours



Disponible En France

Researchers examined data from the Dutch Amsterdam Resuscitation Studies registry and confirmed in the Danish Cardiac Arrest Registry.

They say it's been difficult to properly study out-of-hospital cardiac arrests due to a lack of patients records analyze the problem.

"As a European consortium we can validate our findings in different populations, and we bring together different expertise," Tan said. "For example, sudden cardiac arrest during sports is 19 times more common in men than women and the network enables us to comprehensively evaluate the potential biological (sex) and behavioral (gender) reasons."

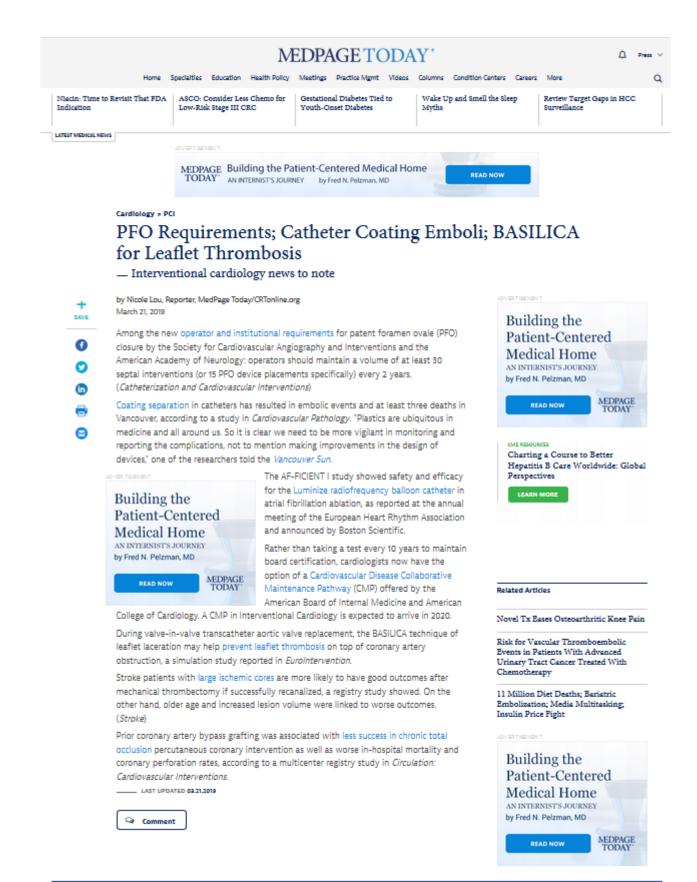




This Photo is Unedited. Look Closer



8.3.5 Outlet: MedPage Today, USA



9 Annex 1 | Detailed occupancy per session per day & start

time

Detailed occupancy per session per day & start time

Sunday 17 March

Туре	Title	Subtitle	Session date and time	Head count peak	Room
Main Session	Late-breaking trials 1		17/03/2019 14:00	430	Sokolov
How-to Session	Syncope - Translation of guidelines into clinical practice		17/03/2019 11:05	330	Sokolov
Special Session	Live case session - Direct His bundle pacing		17/03/2019 16:30	323	Mirowski
Special Session	Live case session - Ablation of atrial fibrillation		17/03/2019 11:05	300	Mirowski
Main Session	Sudden cardiac death - Old and new questions		17/03/2019 11:05	300	Mobitz
Main Session	Recurrence of atrial fibrillation and all veins are still isolated - Now what?		17/03/2019 14:00	300	Mobitz
How-to Session	ICD management in real life		17/03/2019 11:05	250	Furman
Debate Session	Ventricular tachycardia ablation in ischaemic cardiomyopathy - How early and how invasive?		17/03/2019 11:05	230	Senning
Symposium	Tricky situations in supraventricular tachycardia ablation	Joint session with Chinese Society EP	17/03/2019 16:30	220	Senning
Main Session	Knowledge gaps in anticoagulation for atrial fibrillation		17/03/2019 11:05	217	Wenckebach
Main Session	Ventricular arrhythmia ablation in structurally normal hearts	Joint session with the Japanese Heart Rhythm Society (JHRS)	17/03/2019 14:00	204	Senning
Special Session	The 12-lead ECG as a daily, indispensable, companion		17/03/2019 08:30	200	Sokolov
How-to Session	Understanding anatomy to master electrophysiology procedures		17/03/2019 08:30	186	Wenckebach
How-to Session	Individualising CRT - A case- based approach		17/03/2019 08:30	164	Mirowski
Debate Session	Controversies in atrial fibrillation ablation		17/03/2019 08:30	155	Mobitz
Rapid Fire Abstracts	Rapid Fire 1: atrial fibrillation ablation: alternatives to improve success		17/03/2019 08:30	153	Agora

Rapid Fire Abstracts	Rapid Fire 2: new topics in ablation of ventricular arrhythmias		17/03/2019 11:05	141	Agora
Symposium	Mastering ICD therapy		17/03/2019 14:00	139	Wenckebach
Symposium	Ion channel (dys)function and regulation		17/03/2019 11:05	137	His
Symposium	Technical innovations in ventricular tachycardia ablation		17/03/2019 08:30	135	Senning
Symposium	Carmeliet-Coraboeuf- Weidmann lecture		17/03/2019 16:30	133	His
How-to Session	Instructive cases in inherited cardiac conditions	Joint session with the European Cardiac arrhythmia GENetics (ECGen)	17/03/2019 14:00	123	Furman
Rapid Fire Abstracts	Rapid Fire 3: refinements in contemporary pacing		17/03/2019 14:00	113	Agora
Main Session	Ablation in grown-ups with congenital heart defects	Joint session with the Working Group on Grown- Up Congenital Heart Disease (GUCH)	17/03/2019 08:30	112	Damato
Symposium	Human iPSC-derived cardiomyocytes in arrhythmia research		17/03/2019 08:30	112	His
Special Session	EHRA ECG open		17/03/2019 16:30	109	Furman
Symposium	Pericardial access for ventricular tachycardia ablations	Joint session with the Sociedade Brasileira de Arritmias Cardíacas (SOBRAC)	17/03/2019 16:30	95	Wenckebach
Main Session	Cardio-oncology - A new frontier for arrhythmia specialists	Joint session with the Council for Cardio-Oncology	17/03/2019 16:30	91	Damato
How-to Session	Clinical conundrums in patients with CIEDs		17/03/2019 08:30	90	Coumel
Main Session	How to pace and defibrillate a patient with congenital heart disease	Joint session with the Working Group on Cardiac Dysrhythmias and Electrophysiology from the Association for European Paediatric and Congenital Cardiology	17/03/2019 11:05	90	Coumel

How-to	When things get complicated		17/03/2019 14:00		Coumel
Session	in lead management - A case- based approach			90	
How-to Session	Advances in cardiac imaging technologies for sudden cardiac death risk stratification in cardiomyopathies	Joint session with the European Association for Cardiovascular Imaging (EACVI)	17/03/2019 14:00	87	Damato
Debate Session	Addressing unknowns in CRT		17/03/2019 16:30	80	Coumel
Rapid Fire Abstracts	Rapid Fire 4: The shocking truth of device therapy		17/03/2019 16:30	73	Agora
Debate Session	Knowledge gaps in clinical atrial fibrillation		17/03/2019 16:30	70	Mobitz
Abstract Session	Best oral e-cardiology abstract		17/03/2019 11:05	62	Damato
Special Session	Meet my patient 1		17/03/2019 15:30	52	Mobitz
How-to Session	Arrhythmia cases - Think outside the box	Joint session with the Latin American Heart Rhythm Society (LAHRS)	17/03/2019 14:00	50	Mirowski
Young Investigator Award Abstracts	Young Investigator Award - Basic and Translational Science		17/03/2019 14:00	43	His

Monday 18 March

Туре	Title	Subtitle	Session date and time	Head count peak	Room
Main Session	Direct His bundle pacing - True physiological stimulation	Joint session with the Heart Rhythm Society (HRS)	18/03/2019 14:00	400	Senning
Special Session	How to interpret difficult ECGs and intracardiac electrograms		18/03/2019 08:30	355	Senning
Special Session	Live case session - Mapping and ablation of left atrial macroreentrant tachycardias		18/03/2019 11:00	330	Mirowski
How-to Session	Difficult supraventicular tachycardia - How to survive in the lab		18/03/2019 16:30	255	Wenckebach
Main Session	Handling challenging clinical situations in CRT		18/03/2019 11:00	231	Wenckebach
Debate Session	Debates in cardiac pacing		18/03/2019 11:00	222	Mobitz

Main Session	Late-breaking trials 2		18/03/2019 08:30	204	Sokolov
Main Session	Late-breaking trials 3		18/03/2019 14:00	185	Sokolov
Main Session	Exploration of novel anti- fibrillatory strategies - A joint PhD-MD effort	Joint session with the Working Group on Cellular Cardiac Electrophysiology	18/03/2019 11:00	159	His
Main Session	My favourite approach for haemodynamically unstable ischaemic and non-ischaemic ventricular tachycardia ablation - Short answers to 5 questions		18/03/2019 11:00	153	Sokolov
Special Session	Honorary lecture		18/03/2019 11:00	152	Senning
Main Session	What it is my standard workflow for paroxysmal atrial fibrillation ablation? Short answers to 5 questions		18/03/2019 11:00	135	Furman
Special Session	Meet my patient 2		18/03/2019 10:00	130	Mobitz
Special Session	EHRA device tracings open		18/03/2019 14:00	129	Furman
Symposium	The new kids on the block - Mapping and ablation of atrial fibrillation in 2020		18/03/2019 14:00	124	Damato
Main Session	EHRA expert consensus papers - Key messages 2		18/03/2019 08:30	120	Mobitz
How-to Session	Tips and tricks for a successful re-do after failed CRT implantation - A case-based approach		18/03/2019 08:30	118	Wenckebach
Main Session	Latest developments in inherited cardiac conditions		18/03/2019 11:00	116	Coumel
Special Session	Sudden cardiac death in sports activities	In collaboration with the European Sudden Cardiac Arrest network: towards Prevention, Education, New Effective Treatment (ESCAPE-NET)	18/03/2019 08:30	110	Coumel
How-to Session	My complications during atrial fibrillation ablation - What should and what should not be repeated		18/03/2019 08:30	102	Mirowski
Symposium	(Sino-)Atrial electrophysiology and cardiac arrhythmia		18/03/2019 16:30	101	His

How-to	Invasive treatment of		18/03/2019		Mobitz
Session	ventricular arrhythmias in distinct scenarios and etiologies		14:00	100	
Symposium	Lead extraction - Snares, mechanical devices, laser and more		18/03/2019 08:30	98	Damato
Symposium	2018 ESC Guidelines for the diagnosis and management of syncope - Recommendations and key messages		18/03/2019 14:00	96	Mirowski
Symposium	Intracellular calcium (dys)regulation and cardiac remodeling		18/03/2019 08:30	90	His
Main Session	Sports and arrhythmias - When does good become bad?		18/03/2019 16:30	90	Coumel
Symposium	Interventional strategies for treating ventricular fibrillation		18/03/2019 14:00	88	Wenckebach
Rapid Fire Abstracts	Rapid Fire 5: improving the response to cardiac resynchronization therapy: emerging technologies		18/03/2019 16:30	87	Agora
Main Session	EHRA expert consensus papers - Key messages 1		18/03/2019 08:00	82	Mobitz
Young Investigator Award Abstracts	Young Investigator Award - Clinical		18/03/2019 11:00	80	Agora
Main Session	Typical atrial flutter - Not always a piece of cake	Joint session with Cardiac Arrhythmia Society of Southern Africa (CASSA)	18/03/2019 08:30	79	Furman
Special Session	Update on remote cardiac implantable electronic device management	Organised with the EU regulatory affairs committee	18/03/2019 11:00	78	Damato
How-to Session	Premature ventricular complex ablation in patients with heart failure - What have we learned?		18/03/2019 16:30	78	Senning
Special Session	Live case session - Lead extraction		18/03/2019 16:30	70	Mirowski
How-to Session	My way for safe and effective pacemaker therapy		18/03/2019 16:30	68	Mobitz
Symposium	Science and insights from a top arrhythmias journal – News from EP-Europace		18/03/2019 08:30	64	Agora
Special Session	Sudden cardiac arrest - European perspectives and solutions	In collaboration with the European Sudden Cardiac	18/03/2019 14:00	55	Coumel

		Arrest network: towards Prevention, Education, New Effective Treatment (ESCAPE-NET)			
Main Session	Atrial fibrillation and heart failure	Joint session with the Heart Failure Association of the ESC	18/03/2019 16:30	54	Furman
Debate Session	Debates in ICD indications		18/03/2019 14:00	50	His
Abstract Session	Best graded abstracts		18/03/2019 14:00	48	Agora
How-to Session	Case-based optimal therapy of atrial fibrillation		18/03/2019 16:30	27	Damato

Tuesday 19 March

Туре	Title	Subtitle	Session date and time	Head count peak	Room
Special Session	EHRA 2019 - Congress highlights		19/03/2019 14:00	261	Sokolov
Main Session	Arrhythmias in special clinical contexts		19/03/2019 11:00	190	Mobitz
Special Session	Live case session - Ablation of ischaemic ventricular tachycardia		19/03/2019 11:00	161	Mirowski
How-to Session	How to ablate persistent atrial fibrillation?		19/03/2019 08:30	150	Coumel
Symposium	Difficult tracings with interactive discussion	Educative session by RETAC group	19/03/2019 08:30	150	Mirowski
Main Session	Image-guided approach to CRT		19/03/2019 11:00	102	Wenckebach
How-to Session	Indications for atrial fibrillation ablation in difficult scenarios		19/03/2019 11:00	88	Senning
Main Session	Late-breaking trials 4		19/03/2019 08:30	88	Sokolov
Meet the Trialists	Meet the trialist The Apple Heart Study		19/03/2019 09:30	88	Sokolov
Main Session	State of the Art review of paroxysmal supraventricular tachycardia from a clinician's point of view	Joint session with the Asian Pacific Heart Rhythm Society (APHRS)	19/03/2019 11:00	87	Sokolov

Symposium	How to tailor your EP procedure based on ECG findings	19/03/2019 08:30	84	Senning
Main Session	Cardiac monitors in heart rhythm disorders - From A to Z	19/03/2019 08:30	81	His
Special Session	EHRA EP tracings open	19/03/2019 11:00	80	Furman
Rapid Fire Abstracts	Rapid Fire 7: non-invasive rhythm diagnostic tools: what's new?	19/03/2019 11:00	79	Agora
Rapid Fire Abstracts	Rapid Fire 6: supraventricular tachycardia: new tools and techniques	19/03/2019 08:30	77	Agora
Symposium	Device therapy - 60 years later	19/03/2019 08:30	77	Furman
Main Session	Unanswered but key aspects in atrial fibrillation	19/03/2019 08:30	60	Wenckebach
Main Session	Critical appraisal of antiarrhythmic drug therapy - The science behind trial-and- error	19/03/2019 11:00	57	His
Main Session	EHRA expert consensus papers - Key messages 4	19/03/2019 08:30	53	Mobitz
Main Session	Lifestyle modifications in CIED patients	19/03/2019 11:00	50	Coumel
How-to Session	Daily business in the pacemaker & arrhythmia clinic	19/03/2019 08:30	46	Damato
Main Session	EHRA expert consensus papers - Key messages 3	19/03/2019 08:00	46	Mobitz
Main Session	Certification and advanced practice are we there yet?	19/03/2019 11:00	27	Damato