

EHRA 2021

ONLINE CONGRESS



23-25 APRIL

*In conjunction with the 45th annual meeting of the ESC
Working Group on Cardiac Cellular Electrophysiology*

#EHRA2021



POST CONGRESS REPORT

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1. INTRODUCTION

a. Quick facts & figures

CME credits

20 CME credits from UEMS available on VOD and during the live event.

Event platform

3 436 Registrations

91 countries represented

119 sessions

57 scientific and educational sessions

39 abstract based sessions

23 Satellite Symposia

Abstracts & cases submitted

992 abstracts submitted (906) and clinical cases (86)

650 abstracts accepted (629) and clinical cases accepted (71)

b. EHRA CPC

EHRA Chair

Prof. Isabelle C Van Gelder (The Netherlands)

EHRA Co-Chair

Dr. Tom De Potter (Belgium)

Atrial Fibrillation Ablation

Prof. Dipen Shah (Switzerland)

Prof. Luigi di Biase (USA)

Dr. Micaela Ebert (Germany)

Live Case Atrial Fibrillation Ablation

Prof. Lluís Mont (Spain)

Ventricular Tachycardia Ablation

Prof. Josef Kautzner (Czechia)

Prof. Frederic Sacher (France)

Prof. Thomas Deneke (France)

Inherited Cardiomyopathy / Channelopathy

Prof Pier Lambiase (United Kingdom)

PM / Implantable Cardioverter Defibrillator / Home monitoring

Dr. Mauro Biffi (Italy)

Dr. Francesco Zanon (Italy)

Dr. Jonathan Behar (UK)

Prof. Frieder Braunschweig (Sweden)

Cardiac Resynchronization Therapy / Lead extraction

Dr. Kevin Vernooij (The Netherlands)

Dr. Archana Rao (United Kingdom)

Ass. Prof. Rasmus Borgquist (Sweden)

Prof. Mario Martins Oliveira (Portugal)

Clinical Atrial Fibrillation / Stroke and Anticoagulation

Prof. Michiel Rienstra (The Netherlands)

Prof. Jan Steffel (Switzerland)

Supraventricular Tachycardia

Prof. Andrea Sarkozy (Belgium)

Dr. Francisco Moscoso Costa (Portugal)

Sudden Cardiac Death

Prof. Xavier Jouven (France)

Dr. Nikolaos Dargès (Germany)

Rhythm diagnostics & syncope

Dr. Angel Moya I Mitjans (Spain)

Prof. Pascal Defaye (France)

Dr. Nicholas Gall (UK)

Clinical rhythmology

Prof. Isabel Deisenhofer (Germany)

Prof. Mário Martins Oliveira (Portugal)

Dr. Maxim Didenko (Russian Federation)

Pediatrics/GUCH

Prof. Jan Janousek (Czech Republic)

Basic Science

Dr. Daniel Pijnappels (Netherlands)

Nursing & Allied Professionals

Mrs Lynne Hiterbuchner (Austria)

Digital Cardiology

Dr. Emma Svennberg (Sweden)

Dr. Mintu Turakhia (USA)

c. Event schedule

DAY BEFORE THE CONGRESS: Thursday 22 April

09:00 Opening of the congress platform.

Access to abstract gallery, virtual exhibition etc...

DAY 1: Friday 23 April

14:00: 6 Live abstract discussion rooms

15:00 – 22h20: Live stream (1 single stream)

Inaugural session pre-recorded (15h00-15h15)

5 LIVE scientific sessions (incl. Guidelines...)

3 Industry sessions -exclusive slots

DAY 2: Saturday 24 April

07:30-08:30: 4 Live abstract discussion rooms

08:30-13:35: WG CCE Annual Meeting

08:30-14:30: Live stream 6 Channels in parallel (pre-rec sessions & industry slots)

14:30-21:10: 1 Channel with live scientific sessions & exclusive industry slots

DAY 3: Sunday 25 April

08:00-09:00: 4 Live abstract discussion rooms

09:00-14:10: Live stream 5 Channels in parallel (pre-rec sessions & industry slots)

14:10-21:05: 1 Channel with live scientific sessions & exclusive industry slots

21:05-21:20: Closing session (pre-recorded)

2. EVENT PLATFORM

a. Overview

The screenshot displays the EHRA 2021 online congress platform interface. At the top, the EHRA 2021 logo is on the left, and navigation links for Broadcast, Abstracts, Exhibition, About EHRA, and Online Support are in the center. A search bar and a user welcome message for Professor Juan Bautista Semsoulou are on the right. Below the navigation, a schedule overview for 24 April is shown on the left. The main content area features a 'Happening now' section with a grid of video thumbnails. The thumbnails are categorized into 'ABLATION' and 'DEVICES'. Each thumbnail includes a title, a brief description, and a 'WATCH' button. The descriptions for the 'ABLATION' thumbnails are: 'Sex, body size and right atrial volume are the most determinants of tricuspid annulus geometry in healthy volunteers. A 3D echo study using a novel, commercially available dedicated software package'; 'Decreased layer specific longitudinal strain in myocardial segments supplied by stenosed LAD coronary artery: analysis for baseline, peak and recovery phase of stress echocardiography'; 'Guidelines in Practice - Messages from the 2019 ESC Dyslipidemia Guidelines'; 'Sex, body size and right atrial volume are the most determinants of tricuspid annulus geometry in healthy volunteers. A 3D echo study using a novel, commercially available dedicated software package'; and 'Guidelines in Practice - Messages from the 2019 ESC Dyslipidemia Guidelines'. The 'DEVICES' thumbnails have identical descriptions. A 'Load more' button is located below the grid. At the bottom, there is a footer with the ESC logo, 'Sitemap', 'Terms & Conditions', 'Contact us', and social media icons.

Virtual Studio



b. Interactivity

Forum during scientific sessions

- Delegates ask questions and interact during the sessions
- For the pre-recorded sessions: Presenters were asked to connect online to answer questions
- For the live sessions: questions answered orally by the session host

NEW:

- Up to 3 Scientific polls/ sessions on top of the Marketing survey at the end
- Questions and comments from the audience made visible during live sessions.

i. Abstract gallery

When viewing an abstract, delegates could ask a question to the abstract submitter:

ii. General feedback on session

Delegates were able to give us feedback on their level of satisfaction after each session (via the forum).

iii. Scientific content poll to engage audience

Scientific polls were created by the speakers (poll launched via the forum)

iv. Live zoom discussion rooms

Best rated abstracts were featured in live discussions rooms (Zoom).

c. Resources & VOD

Pre-recorded sessions: available on the event platform within the hour after the session

Until 24/05/2021: All content (VOD) available to registered delegates on the event platform (4 Weeks)

From 10/05/2021: Resources only available to EHRA paying members via ESC 365

3. SCIENTIFIC AND EDUCATIONAL PROGRAMME

a. Overview

Scientific and Educational Programme - 57 sessions

Symposium	17
Case-Based Session	2
Debate Session	4
Special Event	2
Special Session	17
Guidelines in Practice	3
How-To	6
Late-Breaking Science	1
Featured Symposium	4
Award Sessions	1
Total	57

Abstract based Programme – 39 sessions

Type	Total
Live Abstract Sessions	32
Award Sessions	3
Clinical Cases	2
ePosters	2
Total	39

Industry Programme¹

Type	Total
Satellite Symposium	23
Tutorials	45
Total	68

Among them - 6 WGCCE sessions

Session Number	Process Type	Type	Title	Date and time
310	Abstract	ePosters	ePoster session - WGCCE	23/04/2021 14:00
532	Abstract	Abstract Sessions	WGCCE	24/04/2021 07:30
125	Pre-arranged	Featured Symposium	Neurohormonal disturbances and arrhythmias	24/04/2021 08:30
126	Pre-arranged	Featured Symposium	Structural microdomains in cardiomyocyte arrhythmogenesis	24/04/2021 10:05
127	Pre-arranged	Featured Symposium	Ion channel (dys)function	24/04/2021 11:05
128	Pre-arranged	Featured Symposium	Carmeliet - Coraboeuf - Weidmann Lecture	24/04/2021 12:40

¹ Full Industry Programme report – see Industry section

Channels

Friday 23 April

Main Channel (Live sessions only)

Saturday 24 April

Main Channel (Live sessions only)

Ablation

Devices

Clinical EP

WGCCE

Worldwide Electrophysiology

Our journals

Sunday 25 April

Main Channel (Live sessions only)

Ablation

Devices

Clinical EP

Awards

Worldwide Electrophysiology

Broadcast

44 pre-recorded sessions were broadcasted on 8 different channels.

16 Live sessions were broadcasted live on one mainstream “Main Channel”.

33 Live abstract discussion rooms were organised via zoom and broadcasted on the platform of the congress.

Type	23/04/2021	24/04/2021	25/04/2021
Abstract Sessions	6	13	13
Award Sessions			4
Case-Based Session		2	
Clinical Cases	1	1	
Debate Session		2	2
ePosters	2		
Featured Symposium		4	
Guidelines in Practice	1	1	1
How-To	1	2	3
Late-Breaking Science	1		
Special Event	1		1
Special Session	1	9	7
Symposium	1	7	9
Total	15	41	40

Contributors to the programme – with break down Faculty + Presenters + Assigned Presenter

381 Faculty Roles

459 Abstract Presenters and 19 Clinical Case Presenters

=> 889 contributors to the programme

b. Faculty - Activities / Roles

381 Faculty Roles (excluding Industry)

- 109 Host roles
- 174 Speaker roles
- 16 Judge roles
- 19 Session Discussant roles
- 63 Abstract / Clinical Case live session moderator roles

Year	2018	2019	2020	Year	2021
Faculty number of roles	701	679	654	Faculty number of roles	381
Chairperson	241	246	245	Chairperson	109
Speaker	404	363	368	Speaker	174
Judges	6	15	17	Judges	16
Discussant	50	55	24	Discussant	19
				Live Abstract / Clinical Case Moderators	63
Total number of Faculty	343	387	397	Total number of Faculty	255

Number of Faculty

255 Faculty Members (excluding abstract / clinical cases Presenters and Industry)

Role distribution per faculty

Number of Roles	2018	2019	2020	2021
1	175	238	251	180
2	84	82	84	46
3	35	31	38	18
4	20	21	12	5
5+	23	15	12	6
Total	343	387	397	255

Gender representation

Faculty Gender	2019		2020		2021	
Female	67	17%	85	21%	60	23%
Male	320	83%	312	78%	195	76%
Total	387	100%	397	100%	255	100%

Age Table

Age range	# Faculty	%
35 and under	17	7%
36 to 40	35	14%
41 to 46	54	21%
47 to 57	86	34%
58 to 68	50	19%
69 and above	13	5%
Total	255	100%

Region

Faculty by region	2019		2020		2021	
ESC	324	84%	327	82%	212	83%
North America	36	9%	42	11%	23	9%
Asia Pacific	20	5%	21	5%	15	6%
Africa	2	0.5%	2	0.5%	3	1%
South & Central America	5	1%	5	1.25%	2	0.8%
Total	387	100%	397	100%	255	100%

Country by order of country representation

255 Faculty coming from **39 different countries**

Country	# Faculty per country	Country	# Faculty per country
Germany	31	South Africa	3
UK	27	China	2
The Netherlands	22	Czechia	2
Italy	20	Hong Kong	2
USA	18	Hungary	2
France	17	Korea	2
Spain	17	Norway	2
Belgium	14	Romania	2
Switzerland	12	Turkey	2
Sweden	7	Argentina	1
Austria	6	Brazil	1
Denmark	6	India	1
Russian Federation	6	Ireland	1
Canada	4	Israel	1
Croatia	4	Kazakhstan	1
Australia	3	Mexico	1
Greece	3	Serbia	1
Japan	3	Slovakia	1
Poland	3	Thailand	1
Portugal	3	Total	255

Sessions by topic (excluding Industry sessions and Special Event)

Topic	# Session
10 - Atrial Fibrillation (AF)	3
10.1 - Pathophysiology and Mechanisms	2
10.2 - Epidemiology, Prognosis, Outcome	2
10.4 - Treatment	3
10.4.5 - Rhythm Control, Catheter Ablation	8
10.5 - Stroke Prevention	1
10.5.1 - Oral Anticoagulation	3
11 - Supraventricular Tachycardia (Non-Atrial Fibrillation)	1
12 - Syncope and Bradycardia	2
12.4 - Treatment	3
13 - Ventricular Arrhythmias and Sudden Cardiac Death (SCD)	2
13.4 - Treatment	2
13.4.3 - Ablation of Ventricular Arrhythmias	6
13.5 - Prevention	1
14 - Device Therapy	7
14.1 - Antibradycardia Pacing	2
14.2 - Implantable Cardioverter-Defibrillator (ICD)	1
14.3 - Cardiac Resynchronisation Therapy (CRT)	3
14.5 - Device Complications and Lead Extraction	2
2.3 - Electrocardiography (ECG)	2
25 - Congenital Heart Disease and Paediatric Cardiology	2
34.3.4 - Sudden Death in Sports	1
38 - e-Cardiology/Digital Health	2
38.6 - Hospital Information Systems, Electronic Medical Records, Clinical Decision Support	1
41 - Basic Science	4
41.3 - Cardiac Diseases	1
41.3.4 - Arrhythmias	2
9 - Arrhythmias, General	7
9.1.2 - Genetic Aspects of Arrhythmias	2
9.3 - Diagnostic Methods	3
9.3.8 - Invasive Diagnostic Methods	1
9.4 - Treatment	2
9.4.1 - Lifestyle Modification	1
9.4.4 - Catheter Ablation of Arrhythmias	3
9.6 - Clinical	2
90.3 - European Heart Rhythm Association (EHRA)	4
Total	94

Joint sessions

5 Pre-recorded joint sessions

113 - How to optimise device programming: getting the best for your buck
Joint session with the Asia Pacific Heart Rhythm Society (APHRs)

133 - Physiological pacing: current and future directions
Joint session with the Chinese Society of Pacing and Electrophysiology (CSPE)

137 - Inherited cardiomyopathies – What's new?
Joint Session with the Japanese Heart Rhythm Society (JHRs)

139 - 2020 ESC Guidelines on Atrial Fibrillation, focus on oral anticoagulation
Joint session with the Cardiac Arrhythmia Society of Southern Africa (CASSA)

141 - The year in cardiovascular medicine
Joint session with the European Heart Journal

3 Live joint sessions

908 - Digital EP new ways to le@rn – training in a new world
Joint session with Heart Rhythm Society (HRs)

912 - Pacing manoeuvres to sort out the tachycardia mechanism
Joint session with the Latin American Heart Rhythm Society (LAHRs)

918 - 2021 ESC Guidelines on cardiac pacing and cardiac resynchronisation therapy
Joint Session ESC/EHRA

Capture of Content – Pre-recorded sessions

Capture of content – 16 Live sessions

For the Live Sessions, Faculty attended Content Rehearsals 10 days before the live event. All faculty were connected 1 hour before the start of the live session to review the scenario and do the technical checks with the supplier.

16 live sessions: including 1 with voting functionality

Session	Type	Title	Date and time	Room location	Voting
918	Guidelines in Practice	2021 ESC Guidelines on cardiac pacing and cardiac resynchronisation therapy	23/04/2021 15:20	Main channel	
901	Symposium	New tools and recipes for atrial fibrillation ablation	23/04/2021 16:20	Main channel	
902	Late-Breaking Science	Late Breaking Clinical Trials	23/04/2021 17:55	Main channel	
903	Special Session	Hein Wellens Memorial ECG Course	23/04/2021 19:30	Main channel	Yes
904	How-To	How to in cardiac resynchronisation	23/04/2021 20:30	Main channel	
905	Debate Session	Controversies in management of ventricular arrhythmias	24/04/2021 14:30	Main channel	
906	Debate Session	Pacemakers and ICDs: controversies in device therapy	24/04/2021 15:30	Main channel	
907	Special Session	Atrial fibrillation live case	24/04/2021 16:30	Main channel	
908	Special Session	Digital EP new ways to le@rn – training in a new world	24/04/2021 17:30	Main channel	
909	Guidelines in Practice	How do we translate the '2020 ESC Guidelines on Atrial Fibrillation' into clinical practice?	24/04/2021 19:20	Main channel	
910	Special Session	EHRA practical guide to NOAC use in atrial fibrillation	25/04/2021 14:10	Main channel	
911	Special Session	Sudden death prevention and ICD therapy: unsolved issues	25/04/2021 15:15	Main channel	
912	Symposium	Pacing manoeuvres to sort out the tachycardia mechanism	25/04/2021 16:15	Main channel	
913	Special Session	Ventricular tachycardia ablation live case	25/04/2021 17:15	Main channel	
914	Special Session	Inherited cardiomyopathies: how to diagnose and risk stratify primary arrhythmia patients and family members	25/04/2021 19:05	Main channel	
915	Symposium	The future of electrophysiology	25/04/2021 20:05	Main channel	

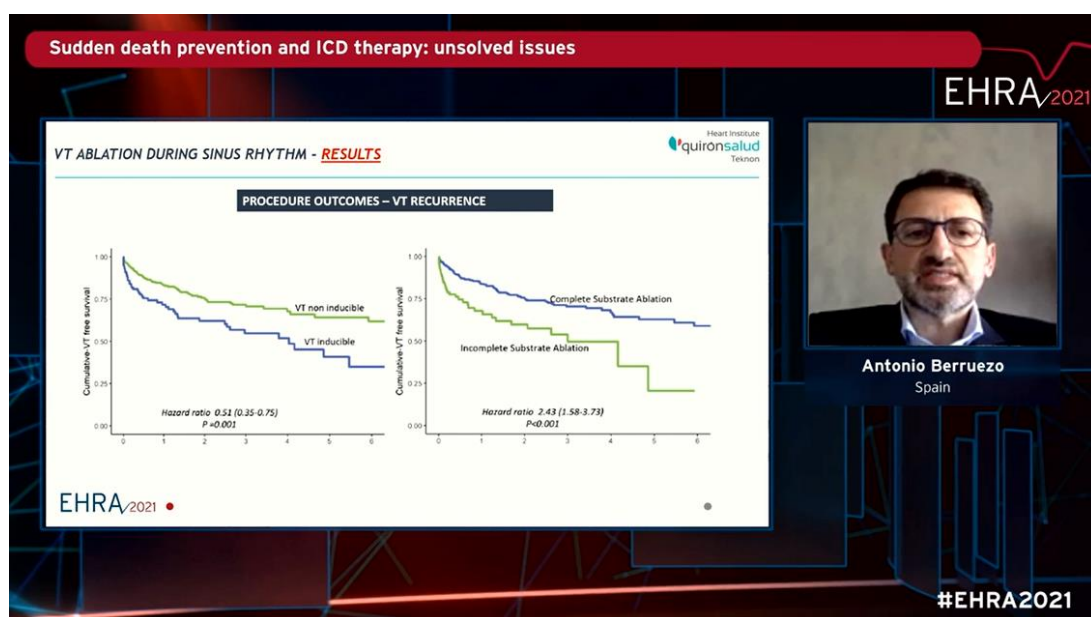
Print screen of a Live session in the Digital studio – view on chair / Speaker + Webcam

LIVE SESSION (Via Live Legends)

Capture of the Chairperson introduction (on screen: moderator of the incoming questions from the audience on the left and host on the right side)



Speaker during his presentation



Faculty of a session during the Discussion time:



Capture of content – 44 pre-recorded sessions

For all pre-recorded sessions, Faculty were invited to attend a content rehearsal, the recording meeting and to connect on the day of the broadcast for interaction with the audience via a Discussion Chat.

44 pre-recorded sessions: including 1 with voting functionality (for the participants not the audience) – 10 Faculty participants used the Mentimeter app (ECG Competition)

Pre-recorded sessions overview		
Session Number	Type	Title
101	Case-Based Session	Difficult cases in atrial fibrillation ablation
102	Case-Based Session	Challenging cases in ventricular tachycardia ablation
103	Special Session	Honorary lectures
104	Symposium	Evidence based atrial fibrillation ablation
105	How-To	How to in atrial fibrillation ablation
106	Debate Session	Controversies in rhythm control therapy in persistent atrial fibrillation and obesity
107	Symposium	Ventricular tachycardia ablation: image-guided ventricular tachycardia ablation
108	Symposium	What to do if conventional ventricular tachycardia ablation fails?
109	Symposium	Cardiac stimulation in the third millennium
110	How-To	How to avoid device complications
111	How-To	Pacing tips and tricks
112	Symposium	Sports and sudden cardiac death
113	How-To	How to optimise device programming: getting the best for your buck
114	Symposium	Cardiac arrest in Europe
115	Symposium	Shared decision-making in devices
116	Special Session	EHRA expert consensus statement and practical guide on optimal implantation techniques for conventional pacemakers and ICDs
117	Special Session	Case Reports session for EHRA


118	Special Session	Scientific reports
119	Special Session	Supraventricular guidelines 2019: an update
120	Symposium	Management of arrhythmias in specific populations: paediatric, congenital and COVID-19
121	Symposium	Syncope: what is new in therapy?
122	How-To	How to improve outcomes in atrial fibrillation
123	Symposium	The utilisation of digital methods to improve prediction and recognition of cardiac arrest and to deliver health-care
124	Debate Session	What is new in syncope?
125	Featured Symposium	Neurohormonal disturbances and arrhythmias
126	Featured Symposium	Structural microdomains in cardiomyocyte arrhythmogenesis
127	Featured Symposium	Ion channel (dys)function
128	Featured Symposium	Carmeliet - Coraboeuf - Weidmann Lecture
129	Award Sessions	Best of e-Cardiology
130	Award Sessions	Young Investigator Award - Basic and Translational Science
131	Award Sessions	Young Investigator Award - Clinical
132	Award Sessions	EHRA Technology and Innovation Awards 2021
133	Symposium	Physiological pacing: current and future directions
134	Special Session	ECG competition
135	Special Session	Live ablation atrial fibrillation
136	Special Session	Live ablation ventricular tachycardia I
137	Symposium	Inherited cardiomyopathies – What’s new?
138	Special Session	Live ablation ventricular tachycardia II
139	Guidelines in Practice	2020 ESC Guidelines on Atrial Fibrillation, focus on oral anticoagulation
140	Special Session	Innovative technology
141	Symposium	The year in cardiovascular medicine
142	Symposium	The best of Europace Journal 2020
916	Special Event	Inaugural session
917	Special Event	Closing session

Print screen of recording – view on chair / Speaker + Webcam

PRE-RECORDED SESSION (Via Key4Events)

Capture of the Chairperson introduction

● How to optimise device programming: getting the best for your bucks



John Camm
UK

#EHRA2021

Speaker during her presentation

● How to optimise device programming: getting the best for your bucks

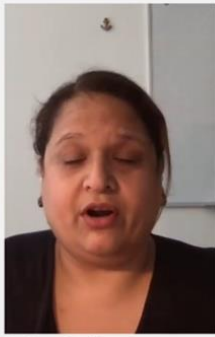
Original Article

Impact of Programming Strategies Aimed at Reducing Nonessential Implantable Cardioverter Defibrillator Therapies on Mortality
A Systematic Review and Meta-Analysis

Study	Relative Risk (95% Confidence Interval)	Weight % (random effects)
EMPIRIC	0.82 (0.49, 1.38)	14.51
MADIT-RIT combined	0.57 (0.36, 0.89)	19.14
ADVANCE III	0.87 (0.60, 1.25)	28.56
PROVIDE	0.75 (0.54, 1.03)	37.79
Overall ($I^2 = 0\%$, 95% CI 0% to 79%)	0.74 (0.61, 0.91)	100.00

0.1 1 10

Favors Therapy Reduction Programming Favors Control



Arian Sultan
Germany

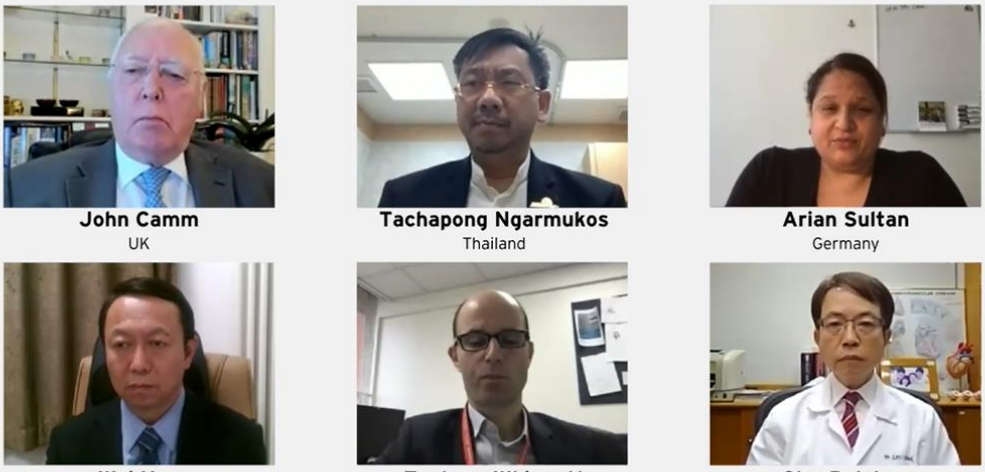
EHRA₂₀₂₁ → 30% Mortality Reduction in all RCT

Tan et al. *Circ Arrhythm Electrophysiol.* 2014;7:164-170

#EHRA2021

Faculty of a session during the Discussion

● How to optimise device programming: getting the best for your bucks



The image shows a grid of six video call windows, each with a name and location below it. The participants are: John Camm (UK), Tachapong Ngarmukos (Thailand), Arian Sultan (Germany), Wei Hua (China), Zachary Whinnett (UK), and Chu-Pak Lau (Hong Kong). There is a small heart icon on the left and the hashtag #EHRA2021 on the bottom right.

John Camm
UK

Tachapong Ngarmukos
Thailand

Arian Sultan
Germany

Wei Hua
China

Zachary Whinnett
UK

Chu-Pak Lau
Hong Kong

#EHRA2021

c. Abstracts & clinical cases

i. Figures – Acceptance rate

Overview Abstract & Clinical cases submitted / accepted

	2019	2019	2020	2020	2021	2021
	Abstract	Clinical case	Abstract	Clinical case	Abstract	Clinical case
TOTAL Abstracts SUBMITTED	1403	228	1222	127	906	87
ALL Not Validated & Withdrawn	36	10	45	7	50	
TOTAL abstracts sent for grading	1367	218	1177	120	856	87
Abstract ACCEPTED	982	50	889	61	629	21
Abstracts REJECTED	385	168	288	59	227	66
% Acceptance	70%	21,90%	72,74%	48%	69,40%	24%
Total accepted	1032		950		650	
Total presented & published on the abstracts & cc platform					567	21
					588	

Top 10 countries

Country	# ACCEPTED abstracts	Country	# ACCEPTED clinical cases
UK	79	Austria	3
Italy	60	Egypt	2
Portugal	58	Italy	2
The Netherlands	56	The Netherlands	2
Germany	42	UK	2
Spain	40	Belgium	1
USA	40	Greece	1
France	23	Hungary	1
Korea	23	Japan	1
Turkey	15	Malta	1

Reviewing committee

Graders Pool overview	Number
Total Experts invited to be a grader	457
Declined	8
Never answered	104
Accepted but did not complete the grading	6
Completed grading	339

Digital Presentation format

Type of sessions	# Abstracts & Clinical Cases
Live Abstract sessions	223
Abstracts included in a pre-arranged session	30
Oral Abstracts - YIA	10
Oral Abstracts - e-Cardiology	4
e-Poster Presentation	300
Accepted withdrawn	62
TOTAL ACCEPTED ABSTRACTS	629
Live Clinical case session	5
Clinical cases Presentations	16
TOTAL ACCEPTED CLINICAL CASES	21

629 ACCEPTED abstracts VS 567 PUBLISHED abstracts on the event platform = 62 ACCEPTED WITHDRAWN:

ACCEPTED WITHDRAWN	Abstracts
Submitter never confirmed	10
Presenter selected - Never confirmed - Never upload	7
Presenter confirmed - Never upload	7
Withdrawn by email	25
Withdrawn - Never registered	13
TOTAL	62

No ACCEPTED WITHDRAWN for the Clinical Cases.

Award Sessions: YIA & Best of e-Cardiology & Technology and Innovation & ECG Competition

2021 winners, prizes & benefits:

Category – Award	Last name	First name	Winner's name &	Abstract Title	Prize and benefit	Selection criteria
Young Investigator Award - Basic and Translational Science	Harlaar	Niels	The Netherlan	Modelling of atrial fibrillation at physiologically relevant scales enabled by massive expansion of	All finalists of the YIA competitions will be granted a free congress registration for EHRA 2021. The 3 winners will get an additional Free registration for EHRA 2022.	Eligible to those who are under 38 years old, or under 40 years old if still in training (proof of institution records will be required).
	Liheng	Yin	France	Functional study of a N-terminal CPVT mutation RyR2R420Q in patient specific hiPSC-CMs model		
	Scridon	Alina	Romania	Long-term effects of hyperpolarization-activated inward current blockade on cardiac parasympathetic activity		
Young Investigator Award - Clinical	Jauregui	Beatriz	Spain	Cardiovascular magnetic resonance determinants of ventricular arrhythmic events after myocardial infarction.	All finalists of the YIA competitions will be granted a free congress registration for EHRA 2021. The 3 winners will get an additional Free registration for EHRA 2022.	Eligible to those who are under 38 years old, or under 40 years old if still in training (proof of institution records will be required).
	Johansson	Madeleine	Sweden	Association of incident fragility fractures in patients hospitalised due to unexplained syncope and orthostatic hypotension .		
	Hoogendoorn	Jarieke	The Netherlands	The precordial R-prime wave: a novel discriminator between cardiac sarcoidosis and arrhythmogenic right ventricular		
Best of e-Cardiology	Linz	Dominik	The Netherlan	The TeleCheck-AF project on remote app-based management of atrial fibrillation during the	All finalists will be granted a free congress registration for EHRA 2021 and EHRA 2022.	Eligible to those submitted within the topic e-Cardiology.
	Bleijendaal	Hidde	The Netherlan	Electrocardiogram-based mortality prediction in patients with COVID-19 using machine learning.		
	Chan	Cheng Pou	UK	Explanation-visualised deep learning model for accessory pathway localisation using 12-lead		
	Gruwez	Henri	Belgium	Head-to-head comparison of proprietary PPG and single-lead ECG algorithms for atrial		
EHRA Technology and Innovation Awards 2021	Pasero	Denis	UK	Miniature solid state batteries for next-generation cardiac devices	All finalists will be granted a free congress registration for EHRA 2021. The 3 winners will get an additional Free registration for EHRA 2022.	
	Martin	Jeremy	France	Cardioskin: a 15 leads ECG connected wearable for long-term monitoring		
	Volkov	Dmytro	Ukraine	Method and system for processing of medical images for generating a prognosis of cardiac		
ECG Competition	Casalicchi	Calogero	Italy		The winner will be granted a free congress registration for EHRA 2022 and the 2 other winners	
	Ollitrault	Pierre	France			
	Crea	Pasquale	Italy			

Jury Members

Young Investigator Award - Basic and Translational Science				
Role	Last Name	First Name	City	Country
Judge Abstract	Dobrev	Dobromir	Essen	Germany
Judge Abstract	Goette	Andreas	Paderborn	Germany
Judge Abstract	Fabritz	Larissa	Birmingham	UK
Judge Abstract	Heijman	Jordi	Maastricht	The Netherlands

Young Investigator Award - Clinical				
Role	Last Name	First Name	City	Country
Judge Abstract	Kotecha	Dipak	Birmingham	UK
Judge Abstract	Rienstra	Michiel	Groningen	The Netherlands
Judge Abstract	Auricchio	Angelo	Lugano	Switzerland
Judge Abstract	Schnabel	Renate B	Hamburg	Germany

Best of e-Cardiology				
Role	Last Name	First Name	City	Country
Judge Abstract	Duncker	David	Hannover	Germany
Judge Abstract	Svennberg	Emma	Stockholm	Sweden
Judge Abstract	Schotten	Ulrich	Maastricht	The Netherlands
Judge Abstract	Mont	Lluis	Barcelona	Spain

EHRA Technology and Innovation Awards 2021				
Role	Last Name	First Name	City	Country
Judge Abstract	Anic	Ante	Split	Croatia
Judge Abstract	Conte	Giulio	Lugano	Switzerland
Judge Abstract	Chun	Kyoung-Ryul Julian	Frankfurt	Germany
Judge Abstract	Guerra Ramos	Jose M	Barcelona	Spain

Abstract Presenters Profile

Country representation

Country	# Abstract presenters	# Clinical Case presenters	Total
Argentina	3		3
Armenia	2		2
Australia	2		2
Austria	3	2	5
Belarus	1		1
Belgium	13	1	14
Brazil	1		1
Bulgaria	1		1
Canada	4		4
China	2		2
Croatia	4		4
Czechia	8		8
Denmark	7		7
Egypt	2	1	3
Finland	2		2
France	19		19
Germany	38		38
Greece	7	2	9
Hong Kong	2		2
Hungary	9	1	10
India	3		3
Iran (Islamic Republic of)	1		1
Ireland	4		4
Israel	3		3
Italy	46	2	48
Japan	6	1	7
Kazakhstan	1		1
Korea (Republic of)	8		8
Latvia	1		1
Malta		1	1
Mexico	1		1
Moldova (Republic of)	1		1
Netherlands (The)	46	2	48
Norway	5		5
Pakistan	1		1
Poland	11		11
Portugal	29	1	30
Romania	3	1	4
Russian Federation	11		11
Serbia	4		4

Singapore	1		1
Slovakia	1		1
Slovenia	1		1
Spain	33	1	34
Sweden	2		2
Switzerland	12	1	13
Taiwan	2		2
Thailand	1		1
Tunisia	1		1
Turkey	9	1	10
Ukraine	5		5
UK	57	1	58
USA	18		18
Uzbekistan	1		1
Total	459	19	478

Presentation age group

Age range	Abstract Presenters	%	Clinical Cases Presenters	%
35 and under	260	56%	12	63%
36 to 40	88	19%	2	11%
41 to 46	46	10%	4	21%
47 to 57	42	9%	0	0%
58 & above	23	5%	1	5%
Total	459	100%	19	100%

Gender Representation

Gender	Abstract Presenters	%	Clinical Case Presenters	%	Total
Female	153	33%	6	32%	159
Male	306	67%	13	68%	319
Total	459	100%	19	100%	478

Table on the presenters who did not upload their presentation and were therefore removed from programme.

ii. Abstract gallery

Concept - Accepted abstracts were published on the congress dedicated platform in various formats (see table below). This platform allowed for continued discussions during the event, with interaction functionalities such as rating the presentation, number of views, chat and comments.

Session type	# sessions	Total Number of Abstracts/Cases	Maximum number of slides to be uploaded - including the title one	Commentary recording	Commentary recording Max Duration	WEBCAM
Award Sessions	3	14	14	MANDATORY	10mns	MANDATORY
Abstract Sessions	36	253	6	MANDATORY	6mns	OPTIONAL
Clinical Cases	2	21	6	MANDATORY	6mns	OPTIONAL
ePosters	2	300	1	MANDATORY	3mns	NONE

Resources were sorted by Session Type, Topic / Most Viewed / Best Rated

EHRA 2021
ONLINE CONGRESS 23-25 APRIL

Broadcast Abstracts Exhibition EHRA booth Online Support

Welcome Guest Esc User

Most viewed

- CRT-ICD upgrade in a patient with a persistent left superior vena cava and subclavia...**
Georgios Kollias
8 likes, 96 views, 7 comments
- Atrial fibrillation substrate mapping with decrement evoked potential mapping.**
Oscar Salvador
7 likes, 93 views, 2 comments
- Catheter ablation of difficult accessory pathways guided by three-dimensional...**
Nicolas Vecchio
2 likes, 51 views, 0 comments
- P wave oversensing in a SCD; an unusual case of inappropriate shock in a patient with MEPPC**
Angeliki Papageorgiou
4 likes, 48 views, 1 comment
- Insights into electrophysiological mechanisms of atrial fibrillation...**
Michael Pope
11 likes, 46 views, 0 comments

Best rated

- Insights into electrophysiological mechanisms of atrial fibrillation...**
- Ca²⁺ handling in induced-pluripotent cardiomyocytes from female CPVT patient, and...**
- Fluorless ablation of atrial fibrillation using intracardiac ultrasound integrated with 3D...**
- CRT-ICD upgrade in a patient with a persistent left superior vena cava and subclavia...**
- Atrial fibrillation substrate mapping with decrement evoked potential mapping.**

Abstracts and Clinical Cases

Browse by Session Type

[Abstract Sessions](#)
[Award Sessions](#)
[Clinical Cases](#)
[ePosters](#)

Search by Topic

[ARRHYTHMIAS AND DEVICE THERAPY](#)
[BASIC SCIENCE](#)
[e-CARDIOLOGY/DIGITAL HEALTH, PUBLIC HEALTH, HEALTH ECONOMICS, RESEARCH METHODOLOGY](#)
[PREVENTIVE CARDIOLOGY](#)
[VALVULAR, MYOCARDIAL, PERICARDIAL, PULMONARY, CONGENITAL HEART DISEASE](#)

d. Live abstract discussion rooms (Via ESC Staff)

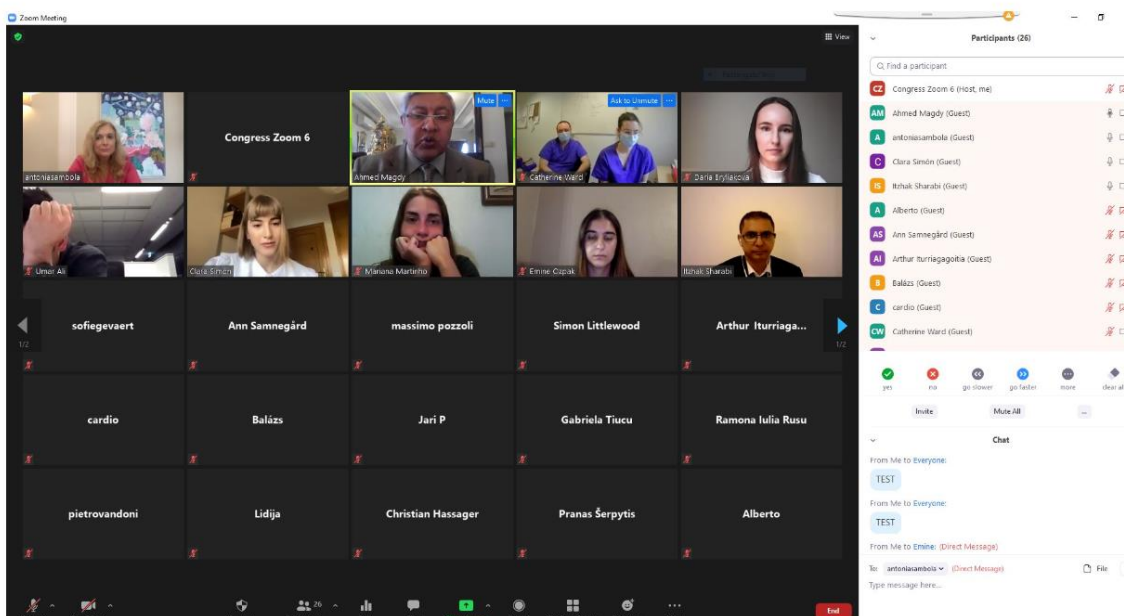
Overview – Table on topic & attendance

Session Number	Title	Room location	Date and time	Max attendance
507	Treatment and prognosis of atrial fibrillation	Live abstract discussion room 1	23/04/2021 14:00	133
508	Towards improved outcome of atrial ablation I	Live abstract discussion room 2	23/04/2021 14:00	70
515	Syncope	Live abstract discussion room 3	23/04/2021 14:00	80
522	Device complications	Live abstract discussion room 4	23/04/2021 14:00	141
529	New approaches for ablation	Live abstract discussion room 5	23/04/2021 14:00	69
531	News about electrophysiology in general	Live abstract discussion room 6	23/04/2021 14:00	70
505	Pathophysiology of atrial fibrillation and beyond II	Live abstract discussion room 1	24/04/2021 07:30	49
510	Optimal therapy of atrial fibrillation	Live abstract discussion room 2	24/04/2021 07:30	108
516	New insights in ventricular arrhythmias I	Live abstract discussion room 3	24/04/2021 07:30	75
523	Arrhythmias in congenital heart diseases and more	Live abstract discussion room 4	24/04/2021 07:30	32
532	WGCCE	Live abstract discussion room 5	24/04/2021 07:30	64
506	Epidemiology and prognosis of atrial fibrillation	Live abstract discussion room 1	24/04/2021 14:30	53
509	Towards improved outcome of atrial ablation II	Live abstract discussion room 2	24/04/2021 14:30	47
525	New diagnostic methods in EP I	Live abstract discussion room 3	24/04/2021 14:30	49
513	Stroke prevention with and without LAAO	Live abstract discussion room 4	24/04/2021 15:30	47
524	Pathophysiology of arrhythmias	Live abstract discussion room 5	24/04/2021 15:30	56
530	Ablation in congenital heart disease and use of imaging techniques	Live abstract discussion room 1	24/04/2021 16:30	50

533	Live Clinical Case session	Live abstract discussion room 2	24/04/2021 16:30	50
520	CRT and physiologic pacing	Live abstract discussion room 3	24/04/2021 17:30	130
519	News from ICD therapy	Live abstract discussion room 3	24/04/2021 19:20	76
501	Focus on diagnostics and therapy of atrial arrhythmias	Live abstract discussion room 1	25/04/2021 08:00	79
503	News about remote monitoring and pacing	Live abstract discussion room 2	25/04/2021 08:00	55
514	Outcome of atrial fibrillation	Live abstract discussion room 3	25/04/2021 08:00	58
526	New diagnostic methods in EP II	Live abstract discussion room 4	25/04/2021 08:00	52
512	Prevention of stroke in atrial fibrillation	Live abstract discussion room 1	25/04/2021 14:10	31
517	New insights in ventricular arrhythmias II	Live abstract discussion room 2	25/04/2021 14:10	51
502	New insights into ICD therapy	Live abstract discussion room 3	25/04/2021 15:15	38
527	New diagnostic methods in EP III	Live abstract discussion room 4	25/04/2021 15:15	49
504	Pathophysiology of atrial fibrillation and beyond I	Live abstract discussion room 1	25/04/2021 16:15	43
521	Optimization of CRT	Live abstract discussion room 2	25/04/2021 16:15	48
518	New insights in pacing	Live abstract discussion room 3	25/04/2021 17:15	69
528	Towards improved outcome of atrial ablation III	Live abstract discussion room 1	25/04/2021 19:05	56
511	Treatment of atrial fibrillation and stroke prevention	Live abstract discussion room 2	25/04/2021 20:05	28

Capture of a Live Abstract discussion room:

The 2 hosts and Presenters activate their webcam, whereas the audience is blinded but can activate their webcam if they wish and unmute their microphone to ask questions.



e. Publications (abstract supplement)

All accepted abstracts will be published in the abstract supplement of the European Heart Journal

(See schedule below)

Step	Due date
Copy Due At Oup (XML)	09/04/2021
Issue order received	09/04/2021
Copy to typesetter	09/04/2021
Issue paginated	27/04/2021
Issue to editor/sponsor	27/04/2021
Corrections from editor/sponsor	29/04/2021
Corrections to typesetter	29/04/2021
Revised Issue From Typesetter	06/05/2021
Revised issue to editor/sponsor	06/05/2021
Final corrections from editor/sponsor	08/05/2021
Final corrections to typesetter	08/05/2021
Final file From Typesetter	12/05/2021
Issue Checked	16/05/2021
Issue approved for publication	20/05/2021
Issue Published Online	26/05/2021

Abstracts are published on the congress dedicated platform during and after the event (event platform closing on 24 May).

Abstracts are also published on ESC 365.

4. INTERLUDES

Promotional videos were used to entertain the audience during the interludes (breaks between sessions).

a. Slides (waiting, transition, technical)

i. Waiting Slides

These slides are used either at the beginning or at the end of the daily programme.

- Starting at 15:00 CEST
- Starting at 08:30 CEST
- Starting at 09:00 CEST
- See you tomorrow
- Thank you / Access all resources here
- Join us on the: Main Channel
- Save the date - 2022

The transition slide was broadcasted by both broadcasting companies when switching from one to another. The technical slide was prepared for the ESC AV team and suppliers in case there is an issue with the video broadcast.

No data is available for slides/images as they were displayed before the congress starts.

b. Statistics

Code	Video title	Video duration (hh:mm:ss)	Friday Unique viewers	Saturday Unique viewers	Sunday Unique viewers	Occurrence	TOTAL Unique viewers
CD_1	Daily count down	00:05:02	57	97	149	11	263
Inter_1	EHRA Education offer	00:00:55	835	1,174	1,017	49	1,627
Inter_2	EHRA Key message app	00:00:29	748	1,067	1,030	50	1,543
Inter_3	Afib Matters	00:00:55	665	1,060	992	43	1,521
Inter_4	Pocket GL	00:00:54	704	1,122	913	40	1,525
Inter_5	EHRA Membership	00:00:37	701	989	887	40	1,467
Inter_6	DAS-CAM promo	00:01:32	734	961	889	38	1,450
Inter_7	ESC 365	00:00:39	733	1,034	771	32	1,443
Inter_8	ESC - Our diversity	00:00:45	547	927	848	31	1,344
Inter_9	ESC Advocacy	00:00:53	555	889	892	26	1,373
Inter_10	Stay tuned	00:03:56	768	1,114	780	63	2,034
AB_Medtronic_1	Advert Broadcast - Medtronic 1 - Promo Sat. morning session (12:05)	00:00:20	-	66	-	1	66
AB_Medtronic_2	Advert Broadcast - Medtronic 2 - Promo Sun. morning session (13:35)	00:00:20	-	431	218	5	533
AB_Medtronic_3	Advert Broadcast - Medtronic 3 - Promo VOD	00:00:20	-	-	285	1	285

c. Daily countdown

This video was used every day before the congress started.

d. Intro/outro

These intro videos, as well as outro videos and industry intro/outro, are used to introduce a session and frame it.

No specific stats are available for these videos as they are considered to be part of the session itself.

5. INDUSTRY

a. Satellite Symposia & Tutorials

23 industry sessions were broadcast at EHRA 2021. Out of these 23 sessions, 7 were exclusive Sessions and 16 were non-exclusive sessions. Exclusive sessions enjoyed full exposure and unique visibility while the non-exclusive sessions were broadcast simultaneously through 5 channels.

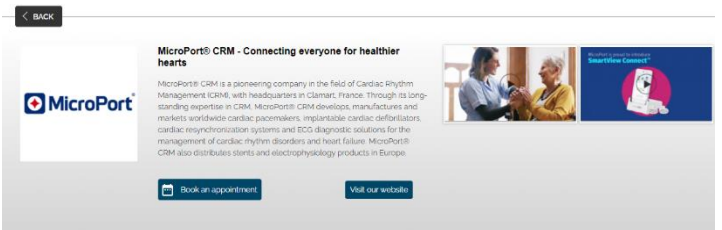
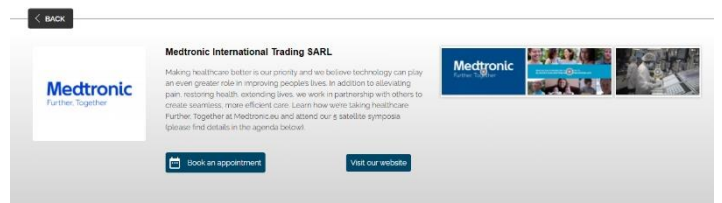
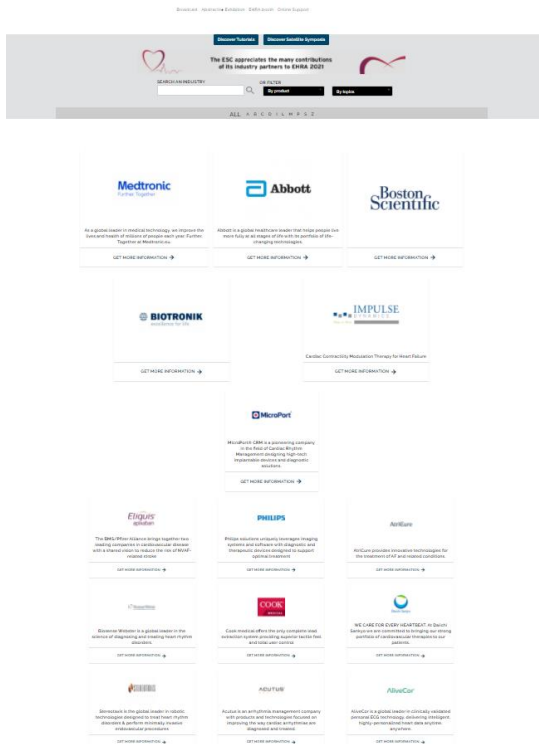
All the sessions were broadcasted by CYIM as either a fully pre-recorded session or a fully live session or a combination of both.

b. Exhibition

3 Exhibitor packages were available to Industry in order to exhibit at EHRA 2021. Each package included company information, promotional and scientific content (videos, pdf, link to external website and sessions on demand) as well as interactivity (chat, book appointment functionalities).

A total of 19 Packages were purchased:

Package type	Quantity
Starter	5
Booster	1
Expert	13
Total	19



c. Sponsorship & advertisement

i. Eblasts

Promotional eBlasts were sent on the 8th and 15th April for the Pre-Event eBlasts; 23rd, 24th and 25th April for the event eBlasts and on the 4th and 11th May for the Post-Event eBlasts.

If you're having trouble reading this email click [here](#).



Make room in your agenda for the latest clinical advances from industry partners!

From 23 April to 25 April, tune in for a series of live presentations from experts in arrhythmia, pacing and electrophysiology, network with peers and much more! No matter where you are, you will be able to connect to the [digital platform](#).

Book the following sessions from our industry partners in your calendar today to find out more about their groundbreaking research and therapies in the field:

 Resynchronization therapy to improve patient management Friday, 23 April 10:55-10:25 CEST	 Preventing adverse events in heart failure patient management Saturday, 24 April 09:30-10:00 CEST	 Managing challenging patients with ICDs in daily clinical practice Sunday, 25 April 13:35-14:05 CEST
---	---	--

 CCM Therapy - Optimizing the treatment of Heart Failure with devices Friday, 23 April 21:30-22:15 CEST	 Monitoring the patient device world of cardiac recordings Sunday, 25 April 10:00-10:30 CEST
--	---

Make sure to register for the congress so you can make the most of these activities - and much more!

Single-line news

Industry content will be made available to registered delegates on the platform until 24 May. Industry presentations will also be freely available to everyone on ESC 365 from 10 May.

This is a sponsored message and does not necessarily reflect the opinion of the ESC, nor does it engage its responsibility.




Our Diversity Is Our Strength



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Get the latest available industry knowledge!

Dear Dr Merzili,


Our online congress is now underway! No matter where you are, connect to the [digital platform](#) and tune in for a series of live presentations from experts in cardiology, network with peers and much more!

Book the following sessions from our industry partners in your calendar today to find out more about their groundbreaking research and therapies in the field:


 Cardiac device therapy to improve patient management Friday, 23 April 13:35-14:05 CEST	 Preventing adverse events in heart failure patient management Saturday, 24 April 09:30-10:00 CEST	 Monitoring the patient device world of cardiac recordings Sunday, 25 April 21:30-22:15 CEST
---	---	---

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ii. Banners

Two banners on the homepage were ordered by sponsors, one by Medtronic and one by Pfizer. The banners were only visible during the Congress dates from 23 to 25 April.

iii. Advert Broadcast

Advert Broadcast is a video promoting Satellite Symposium, two were sold to Medtronic. The sponsor could broadcast 4 spots on Saturday and 3 spots on Sunday before the Satellite Symposia slots.

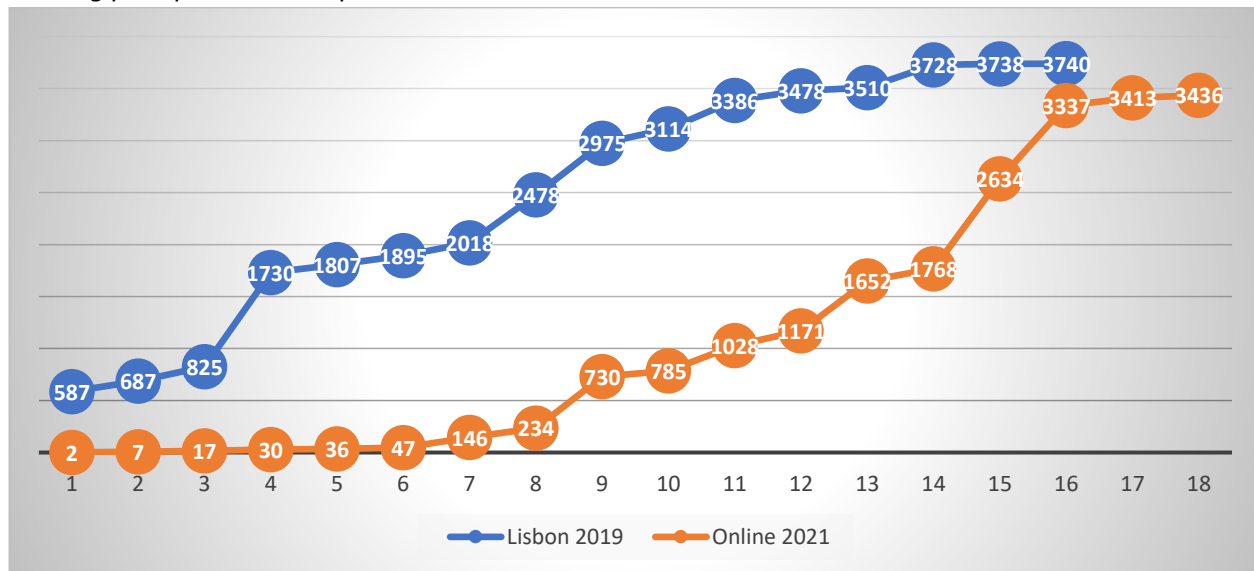
6. ATTENDANCE & PARTICIPATION

a. Registration

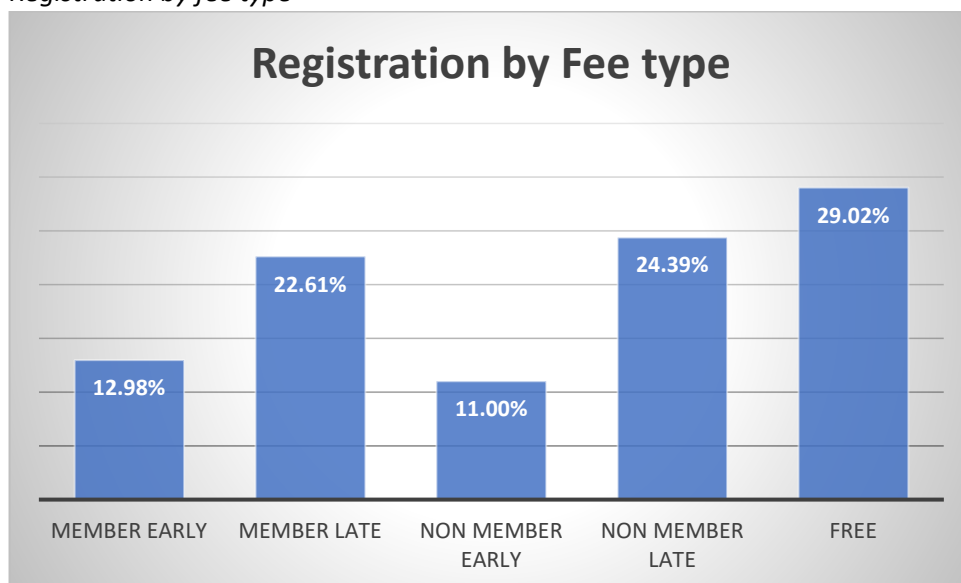
Total Registrations 3.436

- **45 %** of registrants under 40
- **34 %** of registrants were female.

Booking pace per week compared with 2019 – Lisbon.



Registration by fee type



TOP 20 Paying Country breakdown compared to previous years.

	Country	Lisbon 2019	Online 2021
1	Germany	348	337
2	UK	257	282
3	Spain	118	245
4	Italy	271	225
5	Netherlands (The)	293	223
6	France	185	188
7	Greece	88	145
8	United States of America	166	130
9	Switzerland	111	124
10	Belgium	126	120
11	Portugal	189	119
12	Austria	72	84
13	Turkey	50	83
14	Russian Federation	136	82
15	Poland	108	62
16	Denmark	69	51
17	Sweden	57	45
18	Lithuania	15	42
19	Croatia	29	41
20	Romania	57	39

b. Live programme attendance

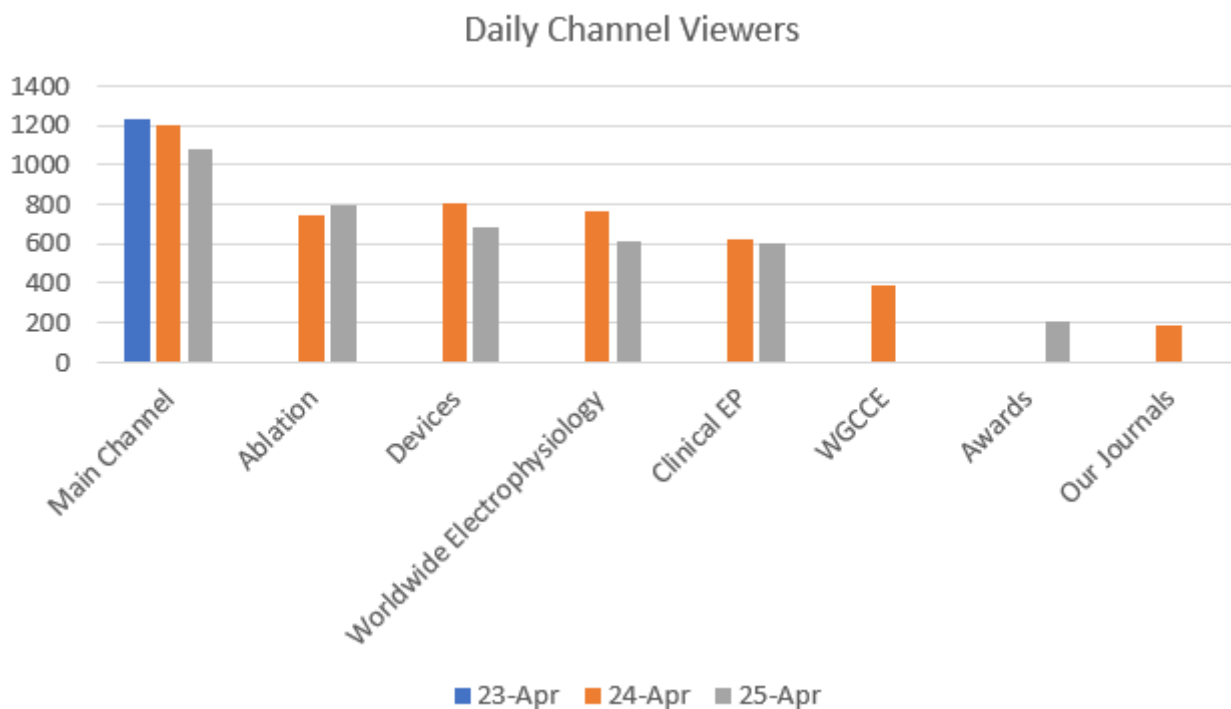
The live programme ran over 3 days from 13:55 on 23rd April to 21:20 on 25th April 2021. A delegate is defined as someone logged in to the congress platform between these times.

- **2,359** delegates attended the event

	23 April	24 April	25 April	Total
Total event attendees	1,316	1,897	1,787	2,359
Live channel viewers	1,231	1,701	1,533	2,149

- The Main Channel was the most popular live broadcast channel on each of the 3 days

Channel	23-Apr	24-Apr	25-Apr	Grand Total
Main Channel	1231	1201	1078	1825
Ablation		739	794	1133
Devices		805	684	1093
Worldwide Electrophysiology		763	617	1069
Clinical EP		625	598	967
WGCCE		393		393
Awards			205	205
Our Journals		184		184
Grand Total	1231	1701	1533	2149



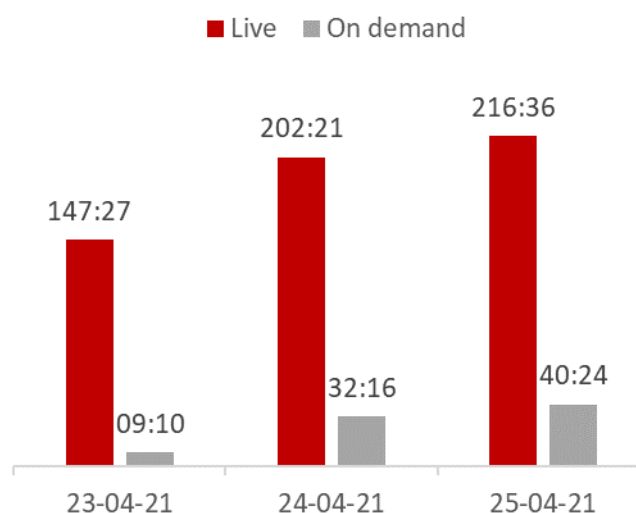
Event attendees

- 2,149** logged on to the congress platform and watched sessions live during congress hours.
- A further **210** delegates logged on to the congress platform during congress hours and only viewed on-demand content.
- In total, 2,359** (72.6% of total registered delegates) logged on to the congress platform during the congress hours and watched live and/or on-demand sessions.

- **3:08 hours** - The average time delegates spent watching live content
- **27:10 mins** – the average length of time delegates spent watching on-demand content

The table below shows the number of delegates attending each live session.

Daily average viewing times



Session	Delegates
Late Breaking Clinical Trials	738
Pacemakers and ICDs: controversies in device therapy	659
New tools and recipes for atrial fibrillation ablation	659
2021 ESC Guidelines on cardiac pacing and cardiac resynchronisation therapy	643
Atrial fibrillation live case	630
Hein Wellens Memorial ECG Course	622
Real-world evidence and outstanding clinical practice on cryoballoon Ablation	592
Controversies in management of ventricular arrhythmias	581

Session	Delegates
How to in cardiac resynchronisation	551
Pacing manoeuvres to sort out the tachycardia mechanism	545
Sudden death prevention and ICD therapy: unsolved issues	543
Innovation doesn't end at implant: Advancing cardiac device patient management	531
The future of electrophysiology	496
EHRA practical guide to NOAC use in atrial fibrillation	495
How do we translate the '2020 ESC Guidelines on Atrial Fibrillation' into clinical practice?	495
Inherited cardiomyopathies: how to diagnose and risk stratify primary arrhythmia patients and family members	491

Session	Delegates
Ventricular tachycardia ablation live case	485
Digital EP new ways to learn – training in a new world	465
What did change in Heart Failure patient management since the last EHRA?	435
Digital Health: Patient and healthcare provider centric innovations in cardiac rhythm management	421
Pacing tips and tricks	388
3 years of HD mapping: Do outcomes live up to expectations?	375
Ventricular tachycardia ablation: image-guided ventricular tachycardia ablation	368
EHRA expert consensus statement and practical guide on optimal implantation techniques for conventional pacemakers and ICDs	360
Closing session	353
Sports and sudden cardiac death	346
Challenging cases in ventricular tachycardia ablation	346
The future of EP practice: Do we need a mapping guided patient specific ablation strategy to treat complex arrhythmias?	345
CCM therapy - Optimizing the treatment of Heart Failure with devices	329
Inaugural session	312
Difficult cases in atrial fibrillation ablation	306

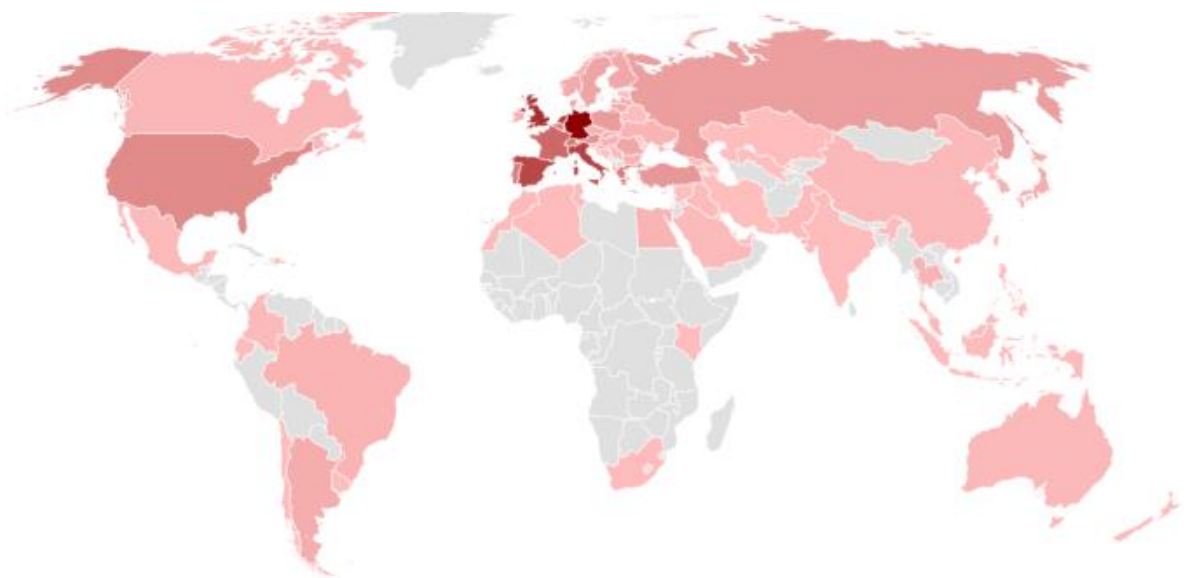
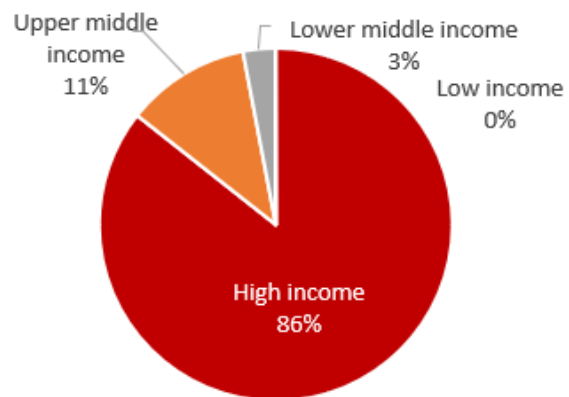
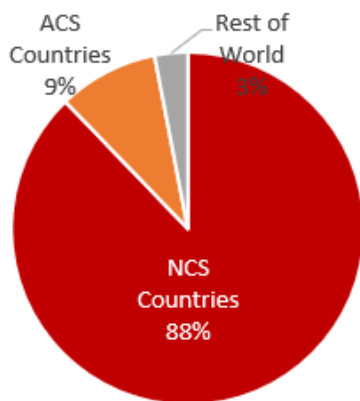
Session	Delegates
How to avoid device complications	305
Controversies in rhythm control therapy in persistent atrial fibrillation and obesity	302
The future is here: Miniaturization in implantable cardiac devices	300
Supraventricular guidelines 2019: an update	290
Live ablation ventricular tachycardia II	285
ECG competition	283
2020 ESC Guidelines on Atrial Fibrillation, focus on oral anticoagulation	281
Live ablation atrial fibrillation	279
Evidence based atrial fibrillation ablation	275
Cardiac device therapy in 2021: Increasing the benefits, while preventing side effects	275
How to in atrial fibrillation ablation	274
What to do if conventional ventricular tachycardia ablation fails?	266
Management of patients with CIED complications; facilitating guideline implementation across Europe.	262
Live ablation ventricular tachycardia I	262
Managing challenging patients with NVAf in daily clinical practice	245

Session	Delegates	Session	Delegates
How to optimise device programming: getting the best for your buck	245	Management of arrhythmias in specific populations: paediatric, congenital and COVID-19	147
Shared decision-making in devices	238	The best of Europace Journal 2020	144
Innovation in catheter ablation with real-time, temperature-controlled technology	237	Promising advances in heart failure patient management	134
Cardiac arrest in Europe	226	Robotics in EP - Now a reality?	132
What is the value of the S-ICD during a pandemic and beyond?	219	Case Reports session for EHRA	124
How to improve outcomes in atrial fibrillation	205	Structural microdomains in cardiomyocyte arrhythmogenesis	119
Honorary lectures	201	Ion channel (dys)function	117
The new Polar Era: Saturday Morning TalkShow	195	Carmeliet - Coraboeuf - Weidmann Lecture	117
Cardiac stimulation in the third millennium	191	Conversations around persistent AF hybrid therapies: 1 topic, 2 continents, 3 voices	109
Syncope: what is new in therapy?	186	Neurohormonal disturbances and arrhythmias	107
Advancing Imaging in Electrophysiology: current and future use of dielectric imaging	185	Scientific reports	107
Physiological pacing: current and future directions	184	The utilisation of digital methods to improve prediction and recognition of cardiac arrest and to deliver health-care	95
What is new in syncope?	182	Rotational TLE: safe, efficient, and effective outcomes with PROMET and RELEASE	89
NOACs in the Elderly AF patient: Learnings from 10 years of clinical practice	180	Young Investigator Award - Clinical	81
Innovative technology	177	The year in cardiovascular medicine	71
Navigating the patient driven world of cardiac recordings	171	Best of e-Cardiology	57
The Right Power for the Right Duration: ablate with your eyes open	167	EHRA Technology and Innovation Awards 2021	52
Inherited cardiomyopathies – What's new?	158	Young Investigator Award - Basic and Translational Science	50
Less is more - Do we still need an atrial lead for atrial sensing?	155		

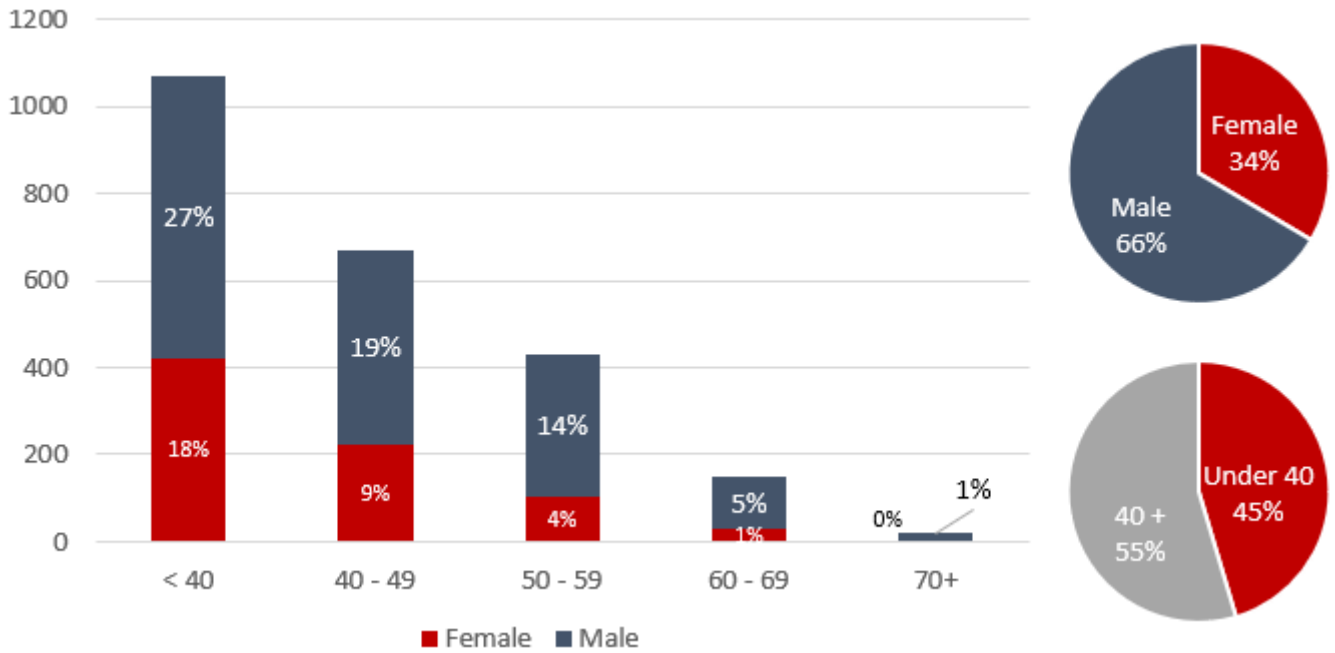
Attendee profiles

- **2,359** delegates from **90** countries/territories logged on to the congress platform during the congress times and watched live and/or on-demand sessions.
- **87%** from National Cardiac Society countries
- **9%** of delegates came from Affiliated Cardiac

Top 10 countries	Delegates	% of total delegates
Germany	252	10.7%
United Kingdom	193	8.2%
Netherlands (The)	174	7.4%
Italy	165	7.0%
Spain	158	6.7%
France	114	4.8%
Switzerland	99	4.2%
Belgium	92	3.9%
Greece	87	3.7%
Portugal	86	3.6%



- **45%** of delegates were under 40
- **34%** of delegates were female



- **54%** of delegates were practising cardiology physicians
- **22%** of delegates were students or in training

	In					Grand Total	
	Student	training	Practicing	Retired	Unknown		
Physician Cardiologist	15	376	1278	7		1676	71.0%
Unknown	5				232	237	10.0%
Other	25	21	146	4	1	197	8.4%
Allied Professional	16	19	133	1		169	7.2%
Physician (non-cardiologist)	5	28	36	1		70	3.0%
Nurse			10			10	0.4%
Grand Total	66	444	1603	13	233	2359	
	2.8%	18.8%	68.0%	0.6%	9.9%		

- **66%** of delegates work in a hospital setting (note that a single delegate can work in more than one setting)

Place of work		
Healthcare - Hospital	1559	66.1%
Research Institution - University	667	28.3%
Healthcare - Private Practice	257	10.9%
Industry	210	8.9%
Research Institution - Non-University	117	5.0%
Administration and Government	44	1.9%
Insurance	3	0.1%

7. COMMUNICATION

a. Social media activity

i. Metrics definition

Impressions

Number of times a post was displayed on feeds (estimation).

Engagement:

Total number of times users interacted with a post; this includes all clicks anywhere on the post, comments, shares etc

Engagement rate:

The number of engagements (retweets, comments, likes, shares, clicks on posts etc) divided by the total number of impressions

Reach:

The number of unique users who saw a post (estimation).

Clicks:

Clicks on weblinks (Twitter, Instagram) Clicks on posts (Facebook, Twitter)

Key Metrics for Twitter

1.14k

Users

4.11k

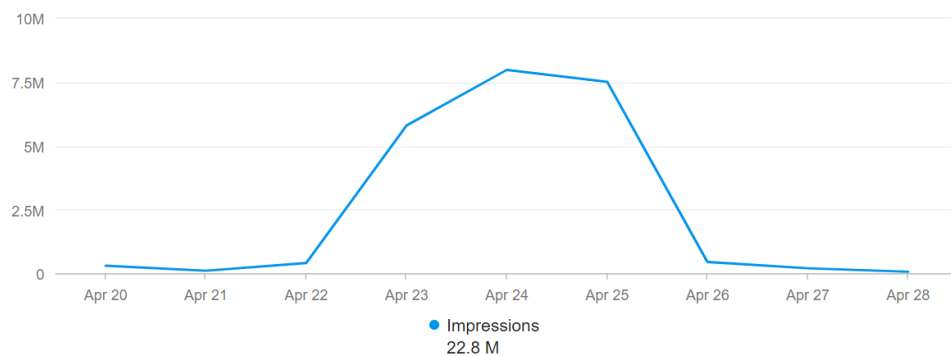
Mentions

22.8M

Impressions

1.31M

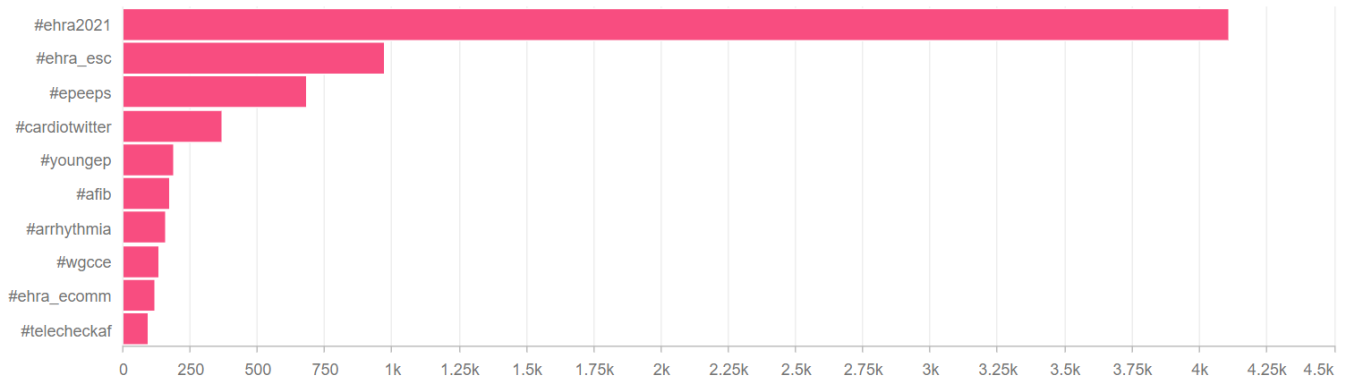
Reach



April 20, 2021 - April 28, 2021

The Key metrics for twitter widget provides insight into both the trend over time as well as top level metrics for the volume of Twitter content over a given period.

Top hashtags

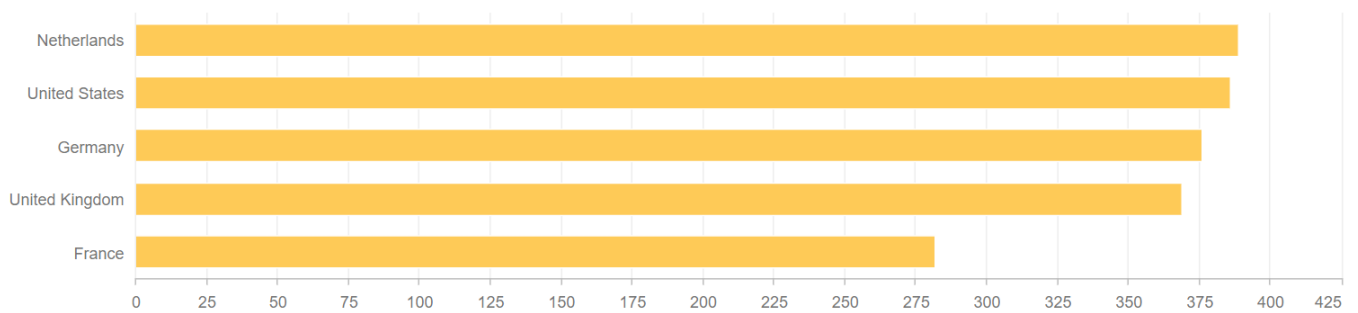


April 20, 2021 - April 28, 2021

The Top hashtags widget provides insight into the hashtags that appear most frequently in social and editorial content over a given time period.

Top Locations

Country ▾



April 20, 2021 - April 28, 2021

The Top locations widget provides insight into the geographic breakdown of social and editorial content over a given time period.

ii. Twitter

Top 3 performing posts

- #EHRA2021 coming in just a few days. Get ready! Follow our amazing Twitter Ambassadors @EmmaSvennberg @nmsdegroot @Kasia_Rajpold @CarolRemme @DrAfzalSohaib @DavidDuncker @EPDeneke @Dominik_Linz @rbcasado @Moscoso_Costa 😊

93,114 impressions

6,733 media views

601 engagements

- Big thanks to our Twitter Ambassadors for an amazing 3-day journey together @EmmaSvennberg @nmsdegroot @CarolRemme @Kasia_Rajpold @DrAfzalSohaib @DavidDuncker @Dominik_Linz @EPDeneke @rbcasado @Moscoso_Costa 🙌🙌 Looking forward to an even more amazing #EHRA2022

41,735 impressions

196 engagements

- #EHRA2021 Closing Session

33,385 impressions

250 engagements

1,7K media views

Best 3 retweets from our #EHRA2021 ambassadors

- <https://twitter.com/HanCardiomd/status/1385678127846891521>
- <https://twitter.com/EmmaSvennberg/status/1386398342205165572>
- https://twitter.com/Moscoso_Costa/status/1386273725549531138

iii. Facebook

Top 3 performing posts

- Thank you for your answers to our ECG challenge <https://bit.ly/3uMCLw0> Correct answer is VT 👍 Want to show your competitive spirit? Join us for the ECG competition and so much more during #EHRA2021 Register now <https://bit.ly/3dCaZvo> #EHRA_ESC

32550 Reach

34938 Impressions

- We're ready for three amazing days during #EHRA2021. Are you? Bookmark the congress platform <https://digital-congress.escardio.org/EHRA-Congress> And make sure you register <http://bit.ly/3bWfRL5> #EHRA_ESC

10467 Reach

11054 Impressions

- Join us for the #EHRA2021 Closing Session <https://bit.ly/3gb4H8W>

7032 Reach

7032 Impressions

iv. LinkedIn

Best performing posts

- We're ready for three amazing days during #EHRA2021. Are you? Bookmark the congress platform <https://lnkd.in/eGhdxWk> And make sure you register <http://bit.ly/3bWfRL5>

7,198 Impressions

212 reactions

- Let's get in the mood for the #EHRA2021 ECG competition session. 67 yo patient with no history of heart disease presents to the ER with dizziness and palpitations. What's the most likely diagnosis?

5,746 Impressions

80 reactions

- Get the #EHRA_ESC #NOACs guide update during #EHRA2021. Includes advice on how to use NOACs in various challenging situations: chronic renal/hepatic disease, extreme body weights, thrombocytopenia and many others. Register now <https://bit.ly/3mpQPc1>

3,924 Impressions

38 reactions

v. Instagram

Best performing posts

- Let's get in the mood for the #EHRA2021 ECG competition session. 67 yo patient with no history of heart disease presents to the ER with dizziness and palpitations. What's the most likely diagnosis?

33,464 reach

36,189 impressions

- Thank you for your answers to this week's ECG challenge. Correct answer is #ventricular #tachycardia 👍
Want to show your competitive spirit? Join us for the #ECG competition and so much more during #EHRA2021

31,146 reach

32,810 impressions

- Let's do a warm-up for #EHRA2021 A 19-year old male was admitted after aborted sudden cardiac death, with ongoing mechanical ventilation and stable haemodynamic parameters without the need for inotropic or vasopressor agents. There was no relevant comorbidity in the history, the patient was a heavy smoker (5 pack-year) and used cannabinoids occasionally. Before the event the patient consumed an excessive amount of alcohol, he fainted suddenly while dancing...

27,016 reach

34,655 impressions

8. PRESS

a. Key numbers

Press release	Date	Articles		Potential Reach
EHRA Congress 2021	23-25 April 2021	285	Yahoo India La Repubblica Clarín Pourquoi Docteur	512 M
People with heart rhythm disorders warned over cannabis use	23 April 2021	26	UPI Pourquoi Docteur InfoSalus	1,5 M
Global experts define how to assess quality of care for patients with atrial fibrillation	24 April 2021	25	Yahoo India MedSci News Medical	7 M
Simple foot test detects heart rhythm disorder in patients with diabetes	24 April 2021	54	Drugs MedPage Today Le Progrés	12,9 M
Study highlights risks of anxiety and depression after cardiac device implantation	24 April 2021	46	La Repubblica Drugs TCTMD	10,4 M
Screening for most common heart rhythm disorder does not occur in Europe	25 April 2021	1	Medscape Germany	537 507
Atrial fibrillation is a warning sign for other health problems	25 April 2021	1	Cardiac Rhythm News	1 454
Can a personalised approach more accurately allocate cardiac devices?	25 April 2021	4	DotMed MedicalXpress MirageNews	295 653
Study paves the way for preventing sudden cardiac arrest in the community	25 April 2021	4	MedicalXpress Mirage News PharmaStar	244 520
Practical advice launched on stroke prevention drug use in atrial fibrillation patients	25 April 2021	5	Medscape TCTMD MedSci	748 342

b. Clippings

Outlet: La Repubblica, Italy

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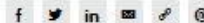
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VAI ALLA HOMEPAGE DI SALUTE

SPORTELLO CUORE



Per chi ha il defibrillatore, attenzione ad ansia e depressione

di Federico Mereta



Uno studio danese rivela l'importanza di uno screening psicologico in questi casi. Una App potrebbe aiutare le persone a rischio

20 APRILE 2021

2 MINUTI DI LETTURA



IL DEFIBRILLATORE impiantabile salva la vita. Quando parte un'aritmia, il sistema riesce a cogliere fin dall'inizio i battiti anomali del cuore e rilascia una "scossa" che consente di rimettere a posto la situazione. Tuttavia questa sorta di "controllo" tecnologico che consente la cardioversione può avere un impatto sulle condizioni psicologiche di alcuni pazienti. Se è vero infatti che nella maggior parte dei casi non ci sono problemi, appare altrettanto innegabile che per qualcuno la vita si modifica, si teme lo "shock" elettrico che il device mette in atto per riportare alla normalità il ritmo. Per questi motivi, sarebbe importante programmare sempre un monitoraggio psicologico per chi viene sottoposto a posizionamento di defibrillatore. A dirlo è una ricerca condotta da Susanne Pedersen, dell'Ospedale universitario di Odense, presentata a *EHRA 2021*, congresso scientifico online della Società Europea di Cardiologia (Esc). Lo studio ha preso in esame le rilevazioni dello studio Defib-Women, condotto su oltre 1000 pazienti che hanno avuto impiantato un defibrillatore con funzione di cardioversione in cinque ospedali danesi. Tutti i soggetti sono stati seguiti per due anni ed hanno compilato regolarmente un questionario psicologico su ansia, depressione e qualità fisica della vita al basale al momento dell'inserimento nella ricerca e poi a 3, 6, 12 e 24 mesi. L'analisi delle informazioni dimostra che è comparsa ansia nel 14,3% dei casi, mentre più di un soggetto su dieci (11,3%) ha sviluppato un quadro depressivo. In genere le persone più anziane avevano meno problemi di tipo ansioso mentre tra chi aveva famiglia i rischi sono risultati superiori rispetto alla media. Sul fronte dell'insorgenza di depressione, le persone di età più avanzata hanno presentato un rischio minore, mentre chi ha avuto la percezione di un calo delle proprie attività fisiche ne ha sofferto di più.

Quei legami pericolosi tra depressione e infarto

17 Ottobre 2018

Secondo la Pedersen, un supporto digitale che permetta di rimanere in contatto potrebbe essere molto utile per alcune persone, al fine di informarle ed aiutarle a tenere sotto controllo il malessere psicologico, specie se le valutazioni del quadro di ansia e depressione sono particolarmente preoccupanti. Grazie a questi sistemi di monitoraggio a distanza, infatti, si può sperare di ottenere una maggior attenzione alle

SALUTE



Tumori: "Sfondato di 464 milioni di euro il fondo dei farmaci innovativi. Servono più risorse"

Leggi anche

Il cuore delle donne sta peggiorando: dieci punti per salvarlo

Arresto cardiaco: il rischio aumenta nei giorni di festa

L'infarto inganna, in un caso su quattro non dà il classico dolore

SALUTE



Outlet: MedPage Today, USA

Endocrinology > General Endocrinology

Obesity and COVID; Diabetic Foot Test for AF — News and commentary from the endocrinology world

by Kristen Monaco, Staff Writer, MedPage Today May 9, 2021



Obesity might be a bigger COVID-19 threat in men than women, with increased risks for severe pneumonia, intubation, and mortality seen among hospitalized patients. (*European Journal of Clinical Microbiology & Infectious Diseases*)

Could vitamin D help postmenopausal women stave off postoperative pain after a total knee replacement? (*Menopause*)

Bone Health Technologies announced it has finished securing a \$2.5 million round of funding to continue assessing its OsteoBoost Vibration Belt for the prevention of osteoporosis and treatment of osteopenia.

Just one simple foot assessment can help diagnose atrial fibrillation in people with diabetes, according to a new study presented at the European Heart Rhythm Association meeting. "The yearly check-up includes palpating the arteries in the feet to examine whether there is healthy blood flow. During this examination we noticed that some patients had an irregular rhythm and decided to investigate its usefulness for diagnosing atrial fibrillation," said lead study author Ilias Kanellos, MD, of the European University of Cyprus in Nicosia, in a statement.

The debate continues on the clinical benefit of levothyroxine in subclinical hypothyroidism. (*The Pharmaceutical Journal*)

Eli Lilly inked a deal with DexCom, Glooko, myDiabby Healthcare, and Roche to integrate technologies for streamlined diabetes management.

Aeterna Zentaris announced it is developing an investigational agent for the treatment of primary hypoparathyroidism in adults.

Medo, an artificial intelligence technology start-up company, announced its Medo-Thyroid ultrasound scanner received 510(k) FDA clearance.

Reco

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Warni
'Otter

ACC

Entres
Failurs

SKEPTIC

Op-Ed
Fibrill:

Outlet: Le Progrès, France

Diabétiques : l'examen du pied, bientôt un moyen de prévenir les AVC ?

Des chercheurs chypriotes ont conclu que l'examen du pied diabétique permet de dépister la fibrillation atriale, un trouble du rythme cardiaque qui constitue l'un des principaux facteurs de risque d'accident vasculaire cérébral (AVC).

Par En partenariat avec Destination Santé - 13 mai 2021 à 06:15 | mis à jour le 13 mai 2021 à 10:45 - Temps de lecture : 2 min

🗨️ | 📄 | 📖 3930 fois



Illustration Adobe Stock



La fibrillation atriale est un trouble cardiaque deux fois plus présent chez les personnes diabétiques. Ce qui est significatif, car il s'agit d'un des principaux facteurs de risque d'accident vasculaire cérébral (AVC).

Or la fibrillation atriale pourrait être détectée chez les patients diabétiques au cours d'un examen de routine, d'après les travaux de chercheurs de l'Université européenne de Chypre, à Nicosie.

Un examen annuel

En effet, il est déjà conseillé aux personnes diabétiques de se faire examiner les pieds au moins une fois par an.

Ces examens réguliers doivent permettre d'identifier le pied diabétique, une complication provoquée par l'augmentation des taux de sucres dans le sang, causant à son tour une mauvaise circulation sanguine et des lésions nerveuses.

Le pied diabétique se manifeste par des ulcérations persistantes de la peau. Il peut conduire à l'amputation.

Essai chez 300 patients

Les chercheurs chypriotes ont analysé les résultats d'exams des pieds de personnes diabétiques. À partir de ces résultats, ils ont émis l'hypothèse que ces examens permettent de dépister la fibrillation atriale.

Pour le vérifier, ils ont réalisé une étude auprès de 300 patients diabétiques.

Newsletters

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Ain. Le père et la fille fraudent 300 fois le péage autoroutier



Saône-et-Loire. Mort après une injection de vaccin AstraZeneca : les corps autopalés

Liens sponsorisés par Taboola

Outlet: UPI, USA



TOP NEWS ODD NEWS ENTERTAINMENT SPORTS PHOTOS MORE

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HEALTH NEWS APRIL 23, 2021 / 8:01 AM

Study: Pot users with arrhythmias face greater risk of death

By Brian P. Dunleavy



Marijuana users with irregular heartbeats have a higher risk for death compared to those without the ailment, a new study has found. File Photo by Atomazul/Shutterstock

April 23 (UPI) -- Hospitalized marijuana users with irregular heartbeats are 4 1/2 times more likely to die than those with normal heartbeats, research presented Friday during the Congress of the European Society of Cardiology showed.

In the analysis of nearly 2.5 million people who used marijuana and were admitted to hospitals, nearly 8% had arrhythmias, the data showed.

ADVERTISEMENT

These heart rate irregularities are far less common in the general population, affecting fewer than 1% of adults in the United States, based on recent estimates.

"People should be aware of this devastating outcome and be careful when using cannabis if they have a concomitant heart problem," study co-author Dr. Sittinun Thangjui said in a statement.

RELATED Virginia Gov. Northam signs law legalizing simple marijuana possession

"Our study highlights that heart rhythm disorders may be a warning sign for an increased risk of death in people who use cannabis," said Thangjui, a resident researcher with the Bassett Healthcare Network

QUESTION D'ACTU

Stupéfiants

Patients atteints de troubles du rythme cardiaque : ne touchez pas au cannabis !

Par **Dilane Cacciarella**

Les consommateurs de cannabis souffrant de troubles du rythme cardiaque auraient un risque de décès beaucoup plus important que les usagers n'ayant pas d'arythmie.



ISSUE CHAT-REUSE/SHUTTER

Publié le 24.04.2021 à 17h30 |    

Mots clés : **cannabis** **arythmie** **thc** **fibrillation atriale**

Les personnes souffrant d'arythmie cardiaque et consommant du cannabis auraient un risque de mortalité à l'hôpital 4,5 fois plus élevé que ceux n'ayant pas d'arythmie, selon une étude présentée à l'EHRA 2021, un congrès scientifique en ligne de la Société européenne de cardiologie (ESC) qui a lieu jusqu'au dimanche 25 avril. Les chercheurs ont voulu évaluer les répercussions de la consommation de cannabis chez les patients atteints de troubles cardiaques. Pour cela, ils ont analysé sur les données de 2 457 544 adultes consommateurs de cette substance et ayant été hospitalisés entre 2016 et 2018. Parmi ceux-ci, 187 825 - soit 7,6% - souffraient d'une arythmie. "Les gens doivent être conscients de cet effet néfaste et rester prudents lorsqu'ils consomment du cannabis s'ils souffrent d'un problème cardiaque", souligne Sitihun Thangjai, l'un des auteurs de l'étude.

L'ESSENTIEL

- ▶ Les effets du cannabis sur les patients atteints de troubles du rythme cardiaque étaient mal connus
- ▶ On sait aujourd'hui qu'en cas de fibrillation atriale, le risque de décès est 4,5 fois supérieur
- ▶ En dehors de ses effets psychotropes, le cannabis est mauvais pour le cœur, la circulation sanguine et les poumons

1,5 million de français consomment régulièrement du cannabis

L'arythmie est une perturbation du rythme cardiaque normal, dans sa fréquence et dans sa régularité. Il existe plusieurs types de troubles du rythme, très différents quant à leur retentissement sur le fonctionnement du cœur. Les personnes analysées au cours de cette étude souffraient principalement de fibrillation atriale, un trouble cardiaque qui peut être responsable de palpitations. Ensuite, certains avaient une fréquence cardiaque anormalement lente ou, à l'inverse, trop rapide. Jusqu'à présent, les connaissances sur les effets de la consommation de cannabis chez ces patients était limitée.

Le cannabis, substance aussi appelée marijuana, renferme un principe actif hallucinogène, le tétrahydrocannabinol, ou THC. On en trouve sous trois formes : l'herbe séchée, la résine et l'huile. Les deux premières se fument tandis que la troisième est plus généralement consommée avec une pipe. Ses effets comportent une phase d'euphorie, puis d'extase et enfin de sommeil. En France, le cannabis est considéré comme un stupéfiant, rendant sa consommation condamnable. Pourtant, l'Observatoire français des drogues et des toxicomanies estime qu'il y aurait cinq millions d'usagers avec au moins une prise dans l'année, dont 1,5 million ayant une consommation régulière.

Outlet: Medscape, USA

Troubles du sommeil : sortir du brouillard

Les troubles du sommeil ont un impact majeur sur la santé physique et psychique. A-t-on progressé sur leur prise en charge ?

Medscape

Voir le dossier

Nachrichten & Meinung > Medscape Nachrichten

Vom Screening bis zum (umstrittenen) Fischöl: Ein kleines Potpourri von Neulenkten zum Vorhofflimmern

Dr. Thomas Kron

INTERESSENKONFLIKTE | 11. Mai 2021

Kommentar    

Med
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Eine der kardiologischen Erkrankungen, die immer wieder im Fokus steht, ist das paroxysmale Vorhofflimmern. Da es oft asymptomatisch ist, aber zu schweren ischämischen Schlaganfällen führen kann, stellt sich die Frage nach dem Nutzen eines systematischen Screening-Programms zur Früherkennung der Herzrhythmusstörung. Zudem gibt es neue Erkenntnisse zu Therapie und Prophylaxe.

Vorhofflimmern Ursache von jedem 3. Schlaganfall

Für ein Screening auf Vorhofflimmern wird schon seit einigen Jahren plädiert, insbesondere seit die neuen oralen Gerinnungshemmer verfügbar sind. So hat sich z. B. 2017 ein internationales Gremium im Fachmagazin *Circulation* dafür stark gemacht. Wenn ältere Menschen flächendeckend auf Vorhofflimmern untersucht würden, könnten weltweit hunderttausende Schlaganfälle verhindert werden, argumentierten die Mitglieder des internationalen Gremiums AF-SCREEN in einem „White Paper“.

Allein in Europa könnten 2060 laut der Europäischen Kardiologen-Gesellschaft mehr als 14 Millionen ältere Menschen an der Herzrhythmusstörung leiden. Vorhofflimmern sei, so die Autoren des „White Paper“, Ursache für ein Drittel aller Schlaganfälle. Relativ häufig verlaufe die Arrhythmie ohne Symptome. Bei etwa 10% aller Schlaganfälle sei Vorhofflimmern vorher nicht bekannt gewesen.

„Durch Vorhofflimmern verursachte Schlaganfälle sind ausgedehnter und schwerer und fordern mehr Todesopfer als andere Schlaganfälle. Ein Screening kann gefährdete Personen davor schützen, überhaupt einen solchen zu erleiden“, so die Hamburger Kardiologin **Prof. Dr. Renate Schnabel**, die ein von der EU finanziertes internationales Forschungsprojekt zur Früherkennung von Vorhofflimmern leitet, das Anfang 2020 gestartet und auf 3 Jahre angelegt ist.

Der Nutzen eines systematischen Screenings auf Vorhofflimmern wird allerdings unterschiedlich beurteilt. So hat erst kürzlich die *US Preventive Services Task Force (USPSTF)* geschlussfolgert, dass es derzeit keine ausreichende wissenschaftliche Evidenz dafür gebe, Nutzen und Risiken eines Screenings auf Vorhofflimmern adäquat beurteilen zu können.

Immerhin wird in der aktuellen ESC-Leitlinie zum Management von Vorhofflimmern bereits ein gelegentliches Screening etwa mittels Pulstasten in der Altersgruppe der mindestens 65-Jährigen empfohlen. Bei über 75-Jährigen und Patienten mit hohem Schlaganfall-Risiko wird sogar ein systematisches Screening für sinnvoll erachtet.

Rückenstärkung für die Screening-Befürworter

Neue Studien-Daten aus der schwedischen Studie STROKESTOP stärken nun die Befürworter eines bevölkerungsbasierten Screening-Programmes. Vorgestellt wurden die Daten auf dem Online-Kongress der „European Heart Rhythm Association“ von der schwedischen Kardiologin **Dr. Emma Svennberg**,