



ACVC
Association for
Acute CardioVascular Care

ESC Acute CardioVascular Care 2022



18-19 March
Online

POST CONGRESS REPORT

www.escardio.org/ACVC-congress
#ACVC2022

 **ESC**
European Society
of Cardiology

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INTRODUCTION

Quick facts & figures

CME credits

16 CME credits from UEMS

705 total participants & 730 total registrations

72 countries represented

57,16% of registrants under 40

44,8% of registrants were female

125 Faculty members (for 278 roles) from 28 countries

62 Scientific sessions

45 scientific and educational sessions

17 abstract based sessions

No satellite symposium

Abstracts & cases

319 abstracts and 137 clinical cases submitted

232 abstracts and 89 clinical cases accepted

ACVC CPC

Congress Chairperson: Professor Konstantin Krytchiuk (Vienna, AT)

Congress Co -Chairperson: Doctor Sergio Leonardi (Pavia, IT)

Event schedule

Wednesday 16 March

09:00

Opening of the event platform

Opening of Research Gateway

Friday 18 March

07:45 : ePosters presentations (Zoom)

08:30 : Inaugural session

11:35 : ACVC General Assembly (Zoom)

18:10 : End of the scientific sessions

11:35, 13:40 & 18:20: *Oral Abstract presentations & ePosters presentations (Zoom)*

Saturday 19 March

07:45 : ePosters presentations (Zoom)

08:30 – 19:40 : Scientific sessions

19:40 : Closing session

10:45, 12:50 & 16:20 : *Oral Abstract presentations (Zoom)*

SCIENTIFIC AND EDUCATIONAL PROGRAMME

Overview

TOTAL sessions in ACVC 2022 Digital Event = 62

Detailed breakdown available below

45 sessions - Scientific and Educational Programme

Session type	Total
Case-Based Session	4
Debate Session	3
Guidelines in Practice	1
How To ...	9
Meet the Experts	4
Rapid Fire Abstracts	6
Special Event	2
Symposium	16
Grand Total	45

17 sessions – Abstract-based programme

Session type	Total
Live Abstract Sessions	11
Award Sessions	2
e-posters	1
Clinical Cases	3
Grand Total	17

Broadcast:**47 sessions were broadcasted Live on 3 channels.**

Type	Main stream – LIVE SESSIONS			On demand
	09 December	10 December	11 December	
Award Sessions		1	1	
Case-Based Session	2	2	2	
Clinical Cases	1		1	1
Debate Session	1			
e-posters				2
Guidelines in Practice		1		
How To ...	2	1	1	
Satellite Symposium	3	2		
Special Event	2		1	
Special Session			1	
Symposium	10	8	2	

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

Faculty - Activities / Roles

278 Faculty Roles

91 Chairperson roles

117 Speaker roles

8 Judge roles

36 Session Discussant roles

26 Abstract / Clinical Case live session moderator roles

<i>Year</i>	<i>2019</i>	<i>2020</i>	<i>2021</i>	<i>2022</i>
Faculty number of roles	372	393	232	278
Chairperson	109	128	42	91
Speaker	172	168	129	117
Judges	4	6	8	8
Discussant	36	53	31	36
Poster Discussant // Live Abstract / Clinical Case Moderators	51	38	22	26
Total number of Faculty	115	125	140	125

.Number of Faculty

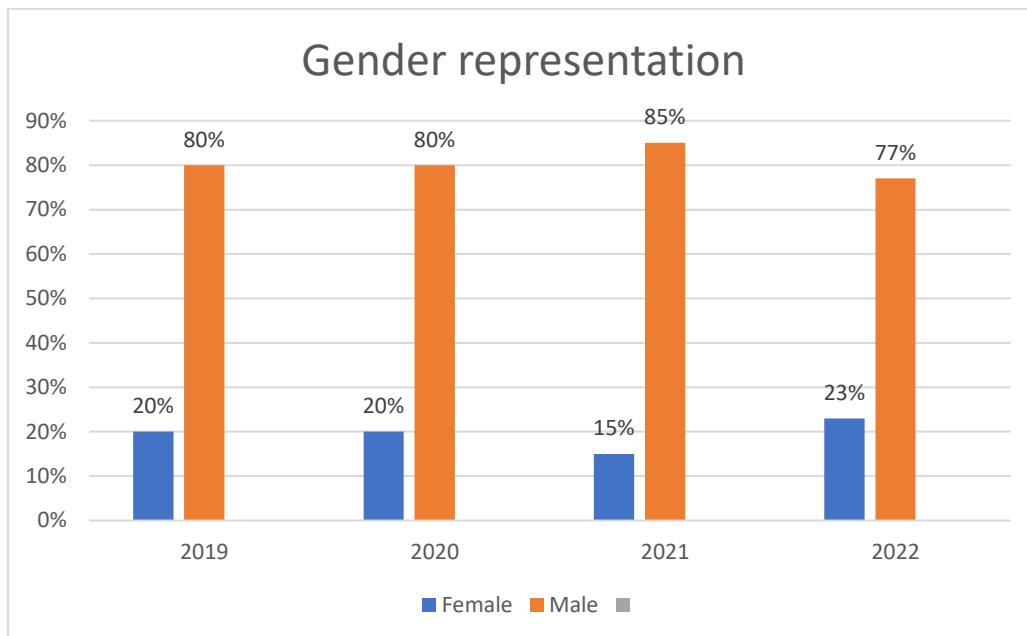
125 Faculty Members (excluding abstract / clinical cases Presenters)

Role distribution per faculty

Number of Roles	2019	2020	2021	2022
1	24	31	92	55
2	27	39	21	29
3	23	13	16	21
4	15	15	9	8
5+	26	27	2	12
Grand Total	115	125	140	125

Gender representation

	2019		2020		2021		2022	
Female	23	20%	25	20%	21	15%	29	23%
Male	92	80%	100	80%	119	85%	96	77%
Grand Total	115		125		140		125	



Age Table

Age range	# Faculty	%
35 and under	8	7%
36 to 40	10	8%
41 to 46	19	15%
47 to 57	39	32%
58 to 68	38	31%
69 and above	9	7%
Grand Total	123	

Region

Regions	2019		2020		2021		2022	
ESC	109	78%	117	84%	115	82%	110	88%
North America	5	4%	8	6%	16	11%	12	10%
Asia Pacific	1	1%	0	0%	9	6%	3	2%
Grand Total	115		125		140		125	

Country by order of country representation: 125 Faculty coming from 28 different countries.

Country	# Faculty per country
Italy	18
Germany	14
UK & Northern Ireland	12
France	11
Spain	11
United States of America	10
Belgium	9
Denmark	7
Netherlands (The)	5
Austria	3
Greece	3
Poland	3
Sweden	3
Finland	2

Australia	1
Canada	1
Czechia	1
Egypt	1
Israel	1
Mexico	1
Norway	1
Romania	1
Serbia	1
Singapore	1
Slovakia	1
Switzerland	1
Taiwan	1
Turkey	1
Grand Total	125

The Scientific and educational Programme

General overview - Friday sessions

Start time	End time	Duration	Channel 1	Channel 2	Channel 3
8:30:00 AM	9:15:00 AM	0:45:00	Inaugural Session		
9:15:00 AM	9:25:00 AM	0:10:00	Interlude / Room change		
9:25:00 AM	10:25:00 AM	1:00:00	118 - Post-cardiac arrest management	103 - Optimal Management of acute right ventricular failure - know it to treat it	135 - Emerging Concepts to Manage Patients with acute heart failure in the emergency department
10:25:00 AM	10:30:00 AM	0:05:00	Interlude / Room change		
10:30:00 AM	11:30:00 AM	1:00:00	110 - Acute Cardiovascular Care Meets Cardio-oncology	107 - Acute Management of Patients with Congenital Heart Diseases	111 - Techniques in ACVC "Live in a box"
11:30:00 AM	11:35:00 AM	0:05:00	Interlude / Room change		
11:35:00 AM	12:25:00 PM	0:50:00			
12:25:00 PM	12:30:00 PM	0:05:00	Interlude / Room change		
12:30:00 PM	1:30:00 PM	1:00:00	131 - Anti-thrombotic management in Patients with Acute Coronary Syndromes	133 - Update in the treatment of Acute Heart Failure	137 - Who keeps the bugs out?
1:30:00 PM	1:40:00 PM	0:10:00	Interlude / Room change		
1:40:00 PM	2:40:00 PM	1:00:00			
2:40:00 PM	2:50:00 PM	0:10:00	Interlude / Room change		
2:50:00 PM	3:50:00 PM	1:00:00	113 - Step by step approach of the patient with out of hospital cardiac arrest	102 - Sudden Cardiac Death in the acute phase of Acute Coronary Syndromes	106 - Impact of climate conditions on acute cardiovascular conditions
3:50:00 PM	4:00:00 PM	0:10:00	Interlude / Room change		
4:00:00 PM	5:00:00 PM	1:00:00	112 - Targeted temperature management after cardiac arrest – quo vadis?	108 - How to reduce bleeding risk in the acute cardiac care setting – focus on antithrombotic treatment	138 - All you need is an echo machine!
5:00:00 PM	5:10:00 PM	0:10:00	Interlude / Room change		
5:10:00 PM	6:10:00 PM	1:00:00	101 - Lipid Management in Patients with Acute Coronary Syndrome: strike early and strong!!	129 - Oxygen and pressors in cardiac arrest care	125 - Learn from the experts: How to use biomarkers in acute cardiovascular care

Start time	End time	Duration	Live Discussion Room 1	Live Discussion Room 2	Live Discussion Room 3
7:45:00 AM	8:15:00 AM	0:30:00	531 - Best ePoster in Acute heart failure – Epidemiology and outcome	532 - Best ePoster in Acute heart failure – Treatment and clinical aspects	
8:30:00 AM	9:15:00 AM	0:45:00			
9:15:00 AM	9:25:00 AM	0:10:00			
9:25:00 AM	10:25:00 AM	1:00:00			
10:25:00 AM	10:30:00 AM	0:05:00			
10:30:00 AM	11:30:00 AM	1:00:00			
11:30:00 AM	11:35:00 AM	0:05:00			
11:35:00 AM	12:25:00 PM	0:50:00	501 - ACS - whats new? (<i>Abstract Session</i>)	506 - PE, sepsis and hemodynamics (<i>Abstract session</i>)	
12:25:00 PM	12:30:00 PM	0:05:00			
12:30:00 PM	1:30:00 PM	1:00:00			
1:30:00 PM	1:40:00 PM	0:10:00			
1:40:00 PM	2:40:00 PM	1:00:00	521 - Acute Coronary Syndromes: Conditioning, Outcomes and More (<i>Abstract session</i>)	523 - Intensive and Acute Cardiovascular Care (<i>abstract session</i>)	525 - Acute heart failure and cardiogenic shock (<i>Abstract session</i>)
2:40:00 PM	2:50:00 PM	0:10:00			
2:50:00 PM	3:50:00 PM	1:00:00			
3:50:00 PM	4:00:00 PM	0:10:00			
4:00:00 PM	5:00:00 PM	1:00:00			
5:00:00 PM	5:10:00 PM	0:10:00			
5:10:00 PM	6:10:00 PM	1:00:00			
6:10:00 PM	6:20:00 PM	0:10:00			
6:20:00 PM	7:10:00 PM	0:50:00	503 - AHF and CS - methods, predictors and interventions (<i>Abstract session</i>)	504 - All about cardiac arrest (<i>Abstract session</i>)	
7:15:00 PM	7:45:00 PM	0:30:00	533 - Best ePoster in Insights on classical and new aspects of acute care	534 - Best ePoster in Acute Coronary Syndromes – Biomarkers and inflammation	

General overview - Saturday sessions

Start time	End time	Duration	Channel 1	Channel 2	Channel 3
8:30:00 AM	9:30:00 AM	1:00:00	109 - When two lives are at stake: Cardiovascular Emergencies Around Pregnancy	116 - New avenues for acute pulmonary embolism (PE)	120 - ACVC Research Prize 2022
9:30:00 AM	9:40:00 AM	0:10:00	Interlude / Room change		
9:40:00 AM	10:40:00 AM	1:00:00	104 - Diagnosis and Management of Spontaneous Coronary Artery Dissection	139 - Cardiogenic shock – keep the organs running!	105 - Digital Health in Acute Cardiac Care
10:40:00 AM	10:45:00 AM	0:05:00	Interlude / Room change		
10:45:00 AM	11:35:00 AM	0:50:00			
11:35:00 AM	11:40:00 AM	0:05:00	Interlude / Room change		
11:40:00 AM	12:40:00 PM	1:00:00	134 - Acute Heart Failure: Key Messages from the 2021 ESC Guidelines	136 - Pearls for the Cardiac Intensivist: Diagnosis and Treatment of Common Cardiovascular Emergencies	114 - Young Investigator Awards
12:40:00 PM	12:50:00 PM	0:10:00	Interlude / Room change		
12:50:00 PM	1:50:00 PM	1:00:00 AM			
1:50:00 PM	2:00:00 PM	0:10:00	Interlude / Room change		
2:00:00 PM	3:00:00 PM	1:00:00	132 - Challenges and Controversies in Acute Coronary Syndrome in 2022	127 - STEMI care across the globe	119 - Out of hospital cardiac arrest – controversies in 2022
3:00:00 PM	3:10:00 PM	0:10:00	Interlude / Room change		
3:10:00 PM	4:10:00 PM	1:00:00	121 - Cardiogenic Shock – state of the art 2022	123 - Cardiogenic shock is a multidisciplinary endeavor	130 - Keys for the current therapeutic management of women in the acute cardiac setting
4:10:00 PM	4:20:00 PM	0:10:00	Interlude / Room change		
4:20:00 PM	5:10:00 PM	0:50:00			
5:10:00 PM	5:20:00 PM	0:10:00	Interlude / Room change		
5:20:00 PM	6:20:00 PM	1:00:00	122 - Options in Patients with refractory cardiogenic shock	117 - Out of hospital cardiac arrest – how to move the needle in outcome?	115 - The Year in Acute Cardiovascular Medicine
6:20:00 PM	6:30:00 PM	0:10:00	Interlude / Room change		
6:30:00 PM	7:30:00 PM	1:00:00	128 - Acute bare necessities in special patient populations	126 - A deep dive into the "observe zone" for patients with chest pain in the Emergency Department	124 - Pulmonary artery catheter use in contemporary cardiac ICUs
7:30:00 PM	7:40:00 PM	0:10:00	Interlude / Room change		
7:40:00 PM	8:10:00 PM	0:30:00	CLOSING / Highlights		

Start time	End time	Duration	Live Discussion Room 1	Live Discussion Room 2
7:45:00 AM	8:15:00 AM	0:30:00	535 - Best ePoster in Acute Coronary Syndromes – Biomarkers and risk stratification	536 - Best ePoster in Acute Coronary Syndromes – Interventional cardiology
8:30:00 AM	9:30:00 AM	1:00:00		
9:30:00 AM	9:40:00 AM	0:10:00		
9:40:00 AM	10:40:00 AM	1:00:00		
10:40:00 AM	10:45:00 AM	0:05:00		
10:45:00 AM	11:35:00 AM	0:50:00	502 - Mechanical circulatory support - the when, how and why (<i>Abstract Session</i>)	507 - Challenging cases on acute coronary syndromes (<i>Clinical case session</i>)
11:35:00 AM	11:40:00 AM	0:05:00		
11:40:00 AM	12:40:00 PM	1:00:00		
12:40:00 PM	12:50:00 PM	0:10:00		
12:50:00 PM	1:50:00 PM	1:00:00 AM	522 - Acute Coronary Syndromes: Platelets, Lipids, Techniques and Syste (<i>Abstract session</i>)	524 - Cardiac arrest, rhythm and other (<i>Abstract session</i>)
1:50:00 PM	2:00:00 PM	0:10:00		
2:00:00 PM	3:00:00 PM	1:00:00		
3:00:00 PM	3:10:00 PM	0:10:00		
3:10:00 PM	4:10:00 PM	1:00:00		
4:10:00 PM	4:20:00 PM	0:10:00		
4:20:00 PM	5:10:00 PM	0:50:00	505 - COVID-19 - here to stay? (<i>Abstract session</i>)	508 - Expect the unexpected on Acute Care cases (<i>Clinical case</i>)

Sessions by topic (excluding Special Event)

Topics	Abstract Sessions	Award Sessions	Case-Based Session	Debate Session	Guidelines in Practice	How To ...	Meet the Experts	Symposium	Grand Total
13 - Ventricular Arrhythmias and Sudden Cardiac Death (SCD)								1	1
13.4.1 - Management of Out-of-Hospital Cardiac Arrest				3		1			4
16 - Acute Heart Failure	1		1		1	1			4
18 - Acute Coronary Syndromes	6							2	8
18.1.2 - Thrombosis, Platelets, and Coagulation								1	1
18.1.6 - Spontaneous Coronary Artery Dissection (SCAD)							1		1
18.3.1 - Biomarkers						1	1		2
19 - Acute Cardiac Care	3	2	2			4		5	16
19.3 - Cardiac Care Unit (CCU), Intensive, and Critical Cardiovascular Care								1	1
19.4 - Cardiogenic Shock							2	2	4
19.5 - Cardiac Arrest								1	1
26 - Pulmonary Circulation, Pulmonary Embolism, Right Heart Failure	1					1		1	3
3 - Echocardiography						1			1
30 - Interventional Cardiology			1						1
36.1.10 - Lipid-Lowering Agents								1	1
38 - e-Cardiology/Digital Health								1	1
9 - Arrhythmias, General									1
Grand Total	11	2	4	3	1	9	4	16	51

9 Joint sessions

101 - Lipid management in patients with acute coronary syndrome: strike early and strong!!

Joint session with EAPC and WG CVP

102 - Sudden cardiac death in the acute phase of acute coronary syndromes (ACS)

Joint session with the European Heart Rhythm Association (EHRA)

110 - Acute cardiovascular care meets cardio-oncology

Joint session with ESC council of Cardio-Oncology

115 - The year in acute cardiovascular medicine

Joint session with the European Heart Journal

116 - New avenues for acute pulmonary embolism (PE)

Joint session with the French group of acute cardiac care, member of the French Society of Cardiology

117 - Out-of-hospital cardiac arrest: how to move the needle in outcome

Joint session with ERC

118 - Post-cardiac arrest management

Joint session with ERC, EUSEM and ESICM

119 - Out-of-hospital cardiac arrest: controversies in 2022

Joint session with EuroELSO

123 - Cardiogenic shock is a multidisciplinary endeavor

Joint session with EACVI and EAPCI

41 Live sessions including 1 with voting functionality

Session Number	Type	Title	Room location	Date	Joint session	Voting
101	Symposium	Lipid management in patients with acute coronary syndrome: strike early and strong!!	Channel 1	3/18/2022	EAPC and WG CVP	
102	Symposium	Sudden cardiac death in the acute phase of acute coronary syndromes (ACS)	Channel 2	3/18/2022	European Heart Rhythm Association	
103	How To ...	Optimal management of acute right ventricular failure: know it to treat it	Channel 2	3/18/2022		
104	Meet the Experts	Diagnosis and management of spontaneous coronary artery dissection (SCAD)	Channel 1	3/19/2022		
105	Symposium	Digital health in acute cardiac care	Channel 3	3/19/2022		
106	Symposium	Impact of climate conditions on acute cardiovascular conditions	Channel 3	3/18/2022		
107	How To ...	Acute management of patients with congenital heart disease	Channel 2	3/18/2022		
108	How To ...	How to reduce bleeding risk in the acute cardiac care setting: focus on antithrombotic treatment	Channel 2	3/18/2022		
109	Symposium	When two lives are at stake: cardiovascular emergencies around pregnancy	Channel 1	3/19/2022		
110	Symposium	Acute cardiovascular care meets cardio-oncology	Channel 1	3/18/2022	ESC council of Cardio-Oncology	
111	Case-Based Session	Techniques in acute cardiovascular care 'Live-in-the-Box'	Channel 3	3/18/2022		
112	Debate Session	Targeted temperature management after cardiac arrest: quo vadis?	Channel 1	3/18/2022		
113	Case-Based Session	Step-by-step approach of the patient with out-of-hospital cardiac arrest	Channel 1	3/18/2022		Yes

114	Award Sessions	Young Investigator Awards	Channel 3	3/19/2022		
115	Symposium	The year in acute cardiovascular medicine	Channel 3	3/19/2022	European Heart Journal	
116	Symposium	New avenues for acute pulmonary embolism (PE)	Channel 2	3/19/2022	French group of acute cardiac care, member of the French Society of Cardiology	
117	How To ...	Out-of-hospital cardiac arrest: how to move the needle in outcome	Channel 2	3/19/2022	ERC	
118	Debate Session	Post-cardiac arrest management	Channel 1	3/18/2022	ERC, EUSEM and ESICM	
119	Debate Session	Out-of-hospital cardiac arrest: controversies in 2022	Channel 3	3/19/2022	EuroELSO	
120	Award Sessions	ACVC Research Prize 2022	Channel 3	3/19/2022		
121	Symposium	Cardiogenic shock: state of the art 2022	Channel 1	3/19/2022		
122	Meet the Experts	Options in patients with refractory cardiogenic shock	Channel 1	3/19/2022		
123	Meet the Experts	Cardiogenic shock is a multidisciplinary endeavor	Channel 2	3/19/2022	EACVI and EAPCI	
124	How To ...	The pulmonary artery catheter in contemporary cardiac ICUs	Channel 3	3/19/2022		
125	How To ...	Learn from the experts: how to use biomarkers in acute cardiovascular care	Channel 3	3/18/2022		
126	Meet the Experts	A deep dive into the 'observe zone' for patients with chest pain in the Emergency Department (ED)	Channel 2	3/19/2022		
127	Symposium	STEMI care across the globe	Channel 2	3/19/2022		
128	How To ...	Acute bare necessities in special patient populations	Channel 1	3/19/2022		

129	Symposium	Oxygen and pressors in cardiac arrest care	Channel 2	3/18/2022		
130	Symposium	Keys for the current therapeutic management of women in the acute cardiac setting	Channel 3	3/19/2022		
131	Symposium	Anti-thrombotic management in patients with acute coronary syndromes (ACS)	Channel 1	3/18/2022		
132	Symposium	Challenges and controversies in acute coronary syndromes in 2022	Channel 1	3/19/2022		
133	Case-Based Session	Update in the treatment of acute heart failure	Channel 2	3/18/2022		
134	Guidelines in Practice	Acute heart failure: key messages from the 2021 ESC Guidelines	Channel 1	3/19/2022		
135	How To ...	Emerging concepts to manage patients with acute heart failure in the Emergency Department	Channel 3	3/18/2022		
136	Case-Based Session	Pearls for the cardiac intensivist: diagnosis and treatment of common cardiovascular emergencies	Channel 2	3/19/2022		
137	Symposium	Who keeps the bugs out?	Channel 3	3/18/2022		
138	How To ...	All you need is an echo machine!	Channel 3	3/18/2022		
139	Symposium	Cardiogenic shock: keep the organs running!	Channel 2	3/19/2022		
900	Special Event	Inaugural session	Channel 1	3/18/2022		
901	Special Event	Closing session	Channel 1	3/19/2022		

Print screen of a Live session – view on chair / Speaker + Webcam

LIVE SESSION (Via CYIM)

Capture of the Chairperson introduction



Introduction

Christian HASSAGER
Denmark

#ACVC2022

Speaker during his presentation

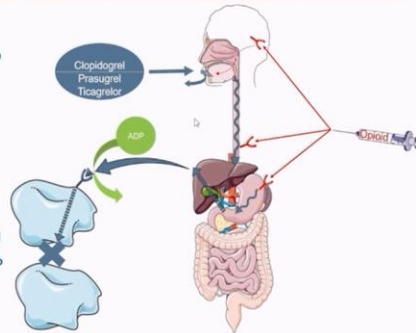
Lidocaine vs. opioids in the acute setting.

Opioids impair the absorption of all oral P2Y₁₂ inhibitors

- > Mimic endogenous opioid peptides
- > Action on μ receptors leads to analgesia but also adverse effects (respiratory depression, GI side effects)
- > Action on delta receptors has anxiolytic effects ²⁰¹⁹

Claimed benefits:

- > reduced myocardial oxygen demand by reducing pain & sympathetic stimulation – reduced HR, BP
- > venodilation, vasodilation reducing preload and afterload



Koh, Fernando, et al. *Heart Lung and Circulation* 2019



Karlheinz PETER
Australia

Navigation icons for a presentation slide.

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Faculty of a session during the Discussion time:

STEMI care across the globe - discussion.



Karlheinz PETER
Australia



Wei-Chun HUANG
Taiwan



Diego ARAIZA GARAYGORDOBIL
Mexico



Sigrun HALVORSEN
Norway



Christian HASSAGER
Denmark



Khung Keong YEO
Singapore

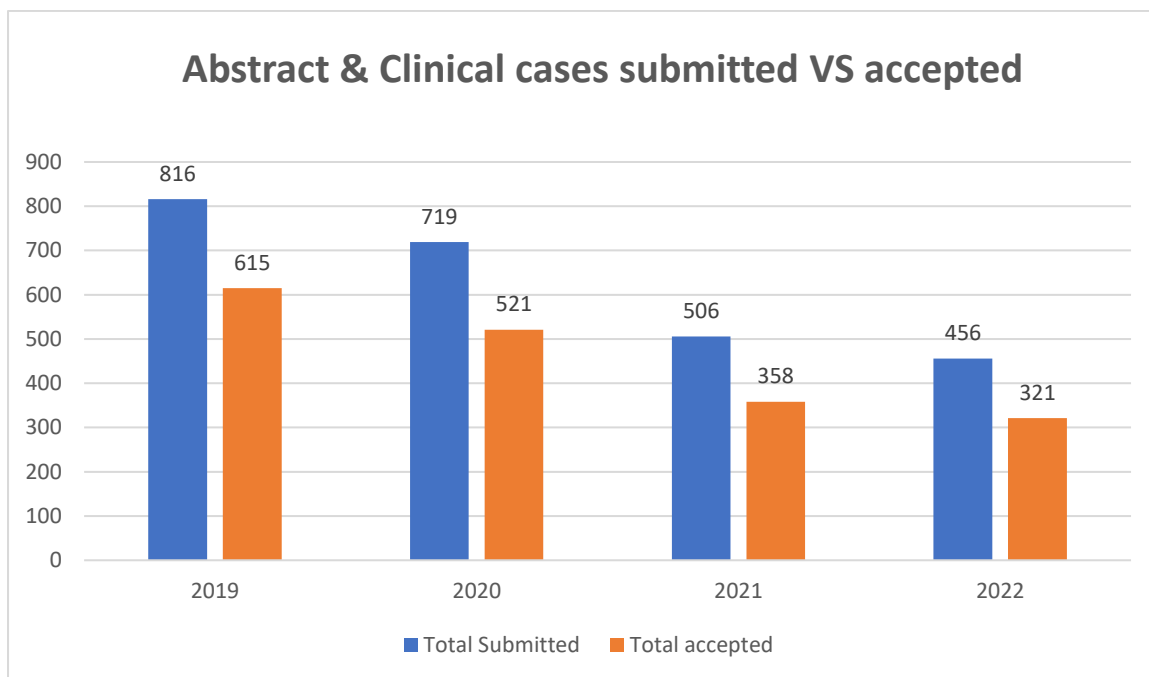


Kurt HUBER
Austria

#ACVC2022

Overview Abstract & Clinical cases submitted / accepted

	2019	2020		2021		2022	
		Abstracts	Clinical Cases	Abstracts	Clinical Cases	Abstracts	Clinical Cases
TOTAL abstracts submitted	816	519	200	368	138	319	137
TOTAL abstracts sent for grading	798	465	199	348	137	287	133
Cut-off grade	5.57	5.4	2.75	6	3	6	3
Acceptance Rate	75%	75%	67%	74%	62%	81%	67%
ACCEPTED Abstracts	615	388	133	272	86	232	89
REJECTED Abstracts	183	77	66	76	51	55	44
TOTAL ACCEPTED		521		358		321	



Top 10 countries

Country	# ACCEPTED abstracts
Portugal	40
Spain	35
Russian Federation	27
Denmark	17
Italy	10
UK	8
France	7
Poland	7
Ukraine	7
Austria	6

Country	# ACCEPTED clinical cases
Spain	20
Portugal	17
Singapore	8
Italy	6
UK	6
Greece	4
Israel	4
France	3
Germany	2
Indonesia	2
Mexico	2
Russian Federation	2

Digital Presentation format

Type of sessions	# Abstracts # Clinical Cases
Live Abstract sessions	68
Oral Abstracts - YIA	4
Oral Abstracts - Research Prize	4
e-Poster Presentation	91
Symposium	1
Accepted withdrawn	64
TOTAL ACCEPTED ABSTRACTS	232
Live Clinical case session	8
Clinical cases On demand	73
Accepted withdrawn	8
TOTAL ACCEPTED CLINICAL CASES	89

237 ACCEPTED abstracts VS 168 PUBLISHED abstracts on the event platform = 64 ACCEPTED WITHDRAWN

89 ACCEPTED clinical case VS 81 PUBLISHED clinical case on the event platform = 8 ACCEPTED WITHDRAWN

ACCEPTED WITHDRAWN	Abstracts
Submitter never confirmed	21
Presenter selected - Never confirmed - Never upload	3
Presenter confirmed - Never upload	2
Withdrawn by email	30
Withdrawn - Never registered	8
TOTAL	64

ACCEPTED WITHDRAWN	Clinical case
Presenter selected - Never confirmed - Never upload	3
Presenter confirmed - Never upload	2
Withdrawn by email	0
Withdrawn - Never registered	3
TOTAL	8

Abstract & Clinical Case Presenters Profile

Country representation

Country	# Abstract presenters	# Clinical Case presenters
Albania	2	
Algeria	1	
Argentina	3	3
Austria	4	
Belgium	1	1
Brazil	2	1
Bulgaria		1
Croatia	1	
Cyprus	1	
Czechia	2	
Denmark	14	2
Egypt	1	
France	2	3
Germany	2	2
Greece	3	4
Hungary	1	1
India	3	2
Indonesia		2

Iran (Islamic Republic of)	1	
Israel	2	4
Italy	8	5
Japan	1	1
Kazakhstan	1	
Lithuania	1	1
Malta	1	
Mexico	1	3
Mongolia	1	
Netherlands (The)	1	
Norway	1	
Philippines		1
Poland	4	1
Portugal	19	20
Romania	2	
Serbia	2	1
Singapore		8
Slovakia	1	
Spain	23	22
Sudan	1	
Sweden	1	
Ukraine	4	5
United Arab Emirates	1	
United Kingdom of Great Britain & Northern Ireland	6	5
United States of America	1	1
Uzbekistan	2	
Grand Total	129	100

Presentation age group

Age range	Abstract Presenters	%	Clinical Cases Presenters	%
35 and under	87	67%	77	77%
36 to 40	27	21%	14	14%
41 to 46	4	3%	7	7%
47 to 57	10	8%	2	2%
58 & above	1	1%	0	0%
Grand Total	129		100	


Gender Representation

Gender	Abstract Presenters	%	Clinical Case Presenters	%
Female	54	42%	49	49%
Male	75	58%	51	51%
Grand Total	129		100	

Abstract gallery

Concept - Accepted abstracts were published on the dedicated congress 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.







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









ESC Acute CardioVascular Care 2022
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Most viewed

 <p>Mitral valve prolapse and out of hospital cardiac arrest. Sofiya Lypovetska</p> <p>♥ 1 👁 88 📄 0</p>	 <p>Relationship of plasma ST2 level with anatomical features of coronary artery lesion in... Iryna Mezhevska</p> <p>♥ 2 👁 40 📄 3</p>	 <p>Infectious endocarditis as cause of myocardial infarction: they are not always embolic. A big ... Francisco Manuel Salmeron Marti...</p> <p>♥ 1 👁 38 📄 0</p>	 <p>Long-term survival in patients treated with mechanical circulatory support for refracto... Sivagowry Rasalingam Moerk</p> <p>♥ 2 👁 36 📄 2</p>	 <p>Clinical utility of the SCAI classification in cardiogenic shock patients of any etiology... Sara Lozano Jimenez</p> <p>♥ 4 👁 29 📄 5</p>	 <p>Time is kidney: relation between pain-to-balloon time and acute kidney injury among ST... David Zahler</p> <p>♥ 6 👁 26 📄 3</p>
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Best rated

 <p>Comparative safety and effectiveness of ticagrelor versus clopidogrel in patients... Begona Hernandez-Meneses</p> <p>♥ 10 👁 6 📄 0</p>	 <p>Time is kidney: relation between pain-to-balloon time and acute kidney injury among ST... David Zahler</p> <p>♥ 6 👁 26 📄 3</p>	 <p>A winter during summertime: in COVID19 pandemic times things are not what they may... Begona Hernandez-Meneses</p> <p>♥ 6 👁 2 📄 0</p>	 <p>Clinical utility of the SCAI classification in cardiogenic shock patients of any etiology... Sara Lozano Jimenez</p> <p>♥ 4 👁 29 📄 5</p>	 <p>Prognosis impact of ticagrelor vs clopidogrel based DAPT discontinuation after acute... Gloria Rocio Padilla Rodriguez</p> <p>♥ 4 👁 3 📄 0</p>	 <p>Association between periodontal pathogens from the red complex and inflammati... Vasile Bogdan Halatu</p> <p>♥ 3 👁 10 📄 1</p>
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Research Gateway

Abstracts, Clinical Cases

Browse by Session Type

Abstract Sessions 71 | Award Sessions 9 | Clinical Cases 84 | E-Posters 96

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ARRHYTHMIAS AND DEVICE THERAPY 16 | CARDIOVASCULAR PHARMACOLOGY 1 | CORONARY ARTERY DISEASE, ACUTE CORONARY SYNDROMES, ACUTE CARDIAC CARE 146 | DISEASES OF THE AORTA, PERIPHERAL VASCULAR DISEASE, STROKE 4 | e-CARDIOLOGY/DIGITAL HEALTH. PUBLIC HEALTH. HEALTH ECONOMICS. RESEARCH METHODOLOGY 3 | HEART FAILURE 34 | IMAGING 5 | INTERVENTIONAL CARDIOLOGY AND CARDIOVASCULAR SURGERY 20 | PREVENTIVE CARDIOLOGY 2 | VALVULAR, MYOCARDIAL, PERICARDIAL, PULMONARY, CONGENITAL HEART DISEASE 29

Live zoom abstracts: Overview – Table on topic & attendance

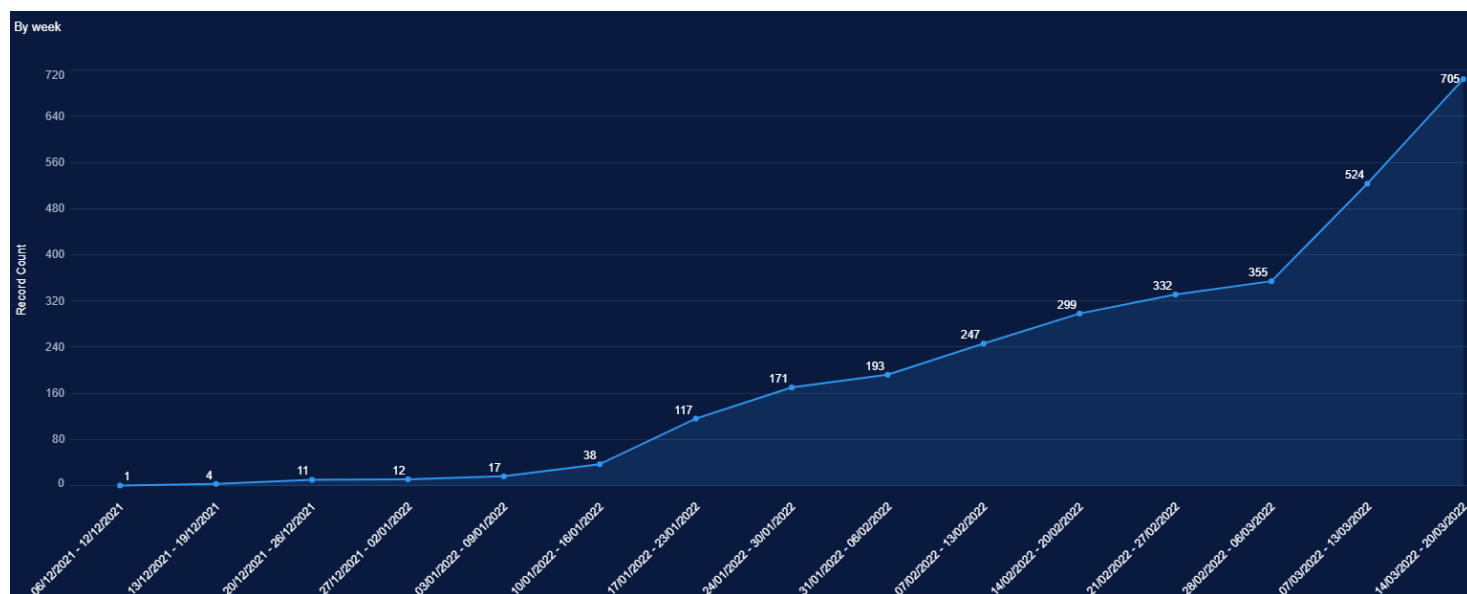
Session Number	Topic	Title	Room location	Date	StartTime	Max attendance	
531	16 - Acute Heart Failure	Best ePoster in Acute heart failure – Epidemiology and outcome	Zoom room 1	18/03/2022	07:45	14	
532	16 - Acute Heart Failure	Best ePoster in Acute heart failure – Treatment and clinical aspects	Zoom room 2		07:45	20	
501	18 - Acute Coronary Syndromes	ACS – what’s new?	Zoom room 1		11:35	47	
506	26 - Pulmonary Circulation, Pulmonary Embolism, Right Heart Failure	PE, sepsis and hemodynamics	Zoom room 2		11:35	23	
521	18 - Acute Coronary Syndromes	Acute Coronary Syndromes: Conditioning, Outcomes and More	Zoom room 1		13:40	30	
523	18 - Acute Coronary Syndromes	Intensive and Acute Cardiovascular Care	Zoom room 2		13:40	19	
525	18 - Acute Coronary Syndromes	Acute heart failure and cardiogenic shock	Zoom room 3		13:40	44	
503	16 - Acute Heart Failure	AHF and CS - methods, predictors and interventions	Zoom room 1		18:20	30	
504	19 - Acute Cardiac Care	All about cardiac arrest	Zoom room 2		18:20	22	
534	18 - Acute Coronary Syndromes	Best ePoster in Acute Coronary Syndromes – Biomarkers and inflammation	Zoom room 2		19:15	13	
533	19 - Acute Cardiac Care	Best ePoster in Insights on classical and new aspects of acute care	Zoom room 1		19:15	15	
535	18 - Acute Coronary Syndromes	Best ePoster in Acute Coronary Syndromes – Biomarkers and risk stratification	Zoom room 1		19/03/2022	07:45	15
536	30 - Interventional Cardiology	Best ePoster in Acute Coronary Syndromes – Interventional cardiology	Zoom room 2			07:45	11
507	18 - Acute Coronary Syndromes	Challenging cases on acute coronary syndromes	Zoom room 2	10:45		46	
502	19 - Acute Cardiac Care	Mechanical circulatory support - the when, how and why	Zoom room 1	10:45		34	
522	18 - Acute Coronary Syndromes	Acute Coronary Syndromes: Platelets, Lipids, Techniques and Systems	Zoom room 1	12:50		30	
524	19 - Acute Cardiac Care	Cardiac arrest, rhythm and other	Zoom room 2	12:50		31	
505	18 - Acute Coronary Syndromes	COVID-19 - here to stay?	Zoom room 1	16:20		19	
508	18 - Acute Coronary Syndromes	Expect the unexpected on Acute Care cases	Zoom room 2	16:20		46	

ATTENDANCE & PARTICIPATION

Registration key figures

Registration Overview	2016	2018	2019	2021	2022	+/- 2021
	Lisbon	Milan	Malaga	Online	Online	
Active delegates	1 066	951	982	1282	702	-580
Exhibitors	52	33	31	5	0	-5
Press members	4	3	3	1	3	+2
TOTAL	1 122	987	1 016	1 288	705	-583

A total of 705 delegates registered from 72 countries:



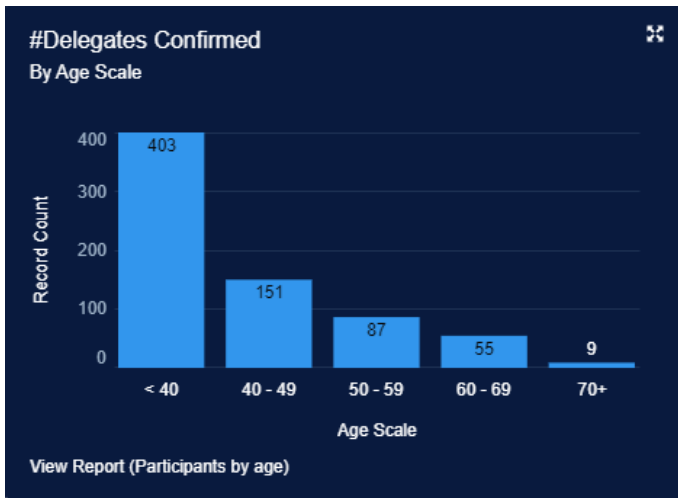
Registration by country

#	Country	Count	#	Country	Count
1	Ukraine	85	37	Mongolia	4
2	Spain	82	38	Slovakia	4
3	Italy	53	39	Brazil	3
4	UK	40	40	Japan	3
5	Portugal	32	41	Peru	3
6	Denmark	31	42	United Arab Emirates	3
7	Germany	28	43	Albania	2
8	Belgium	26	44	Chile	2
9	Romania	23	45	Costa Rica	2
10	Austria	21	46	Egypt	2
11	Netherlands (The)	20	47	Macao	2
12	France	18	48	Malta	2
13	United States of America	16	49	Slovenia	2
14	Poland	12	50	Turkey	2
15	Singapore	12	51	Uzbekistan	2
16	Indonesia	11	52	Algeria	1
17	Israel	11	53	Armenia	1
18	Philippines	11	54	Cyprus	1
19	Russian Federation	11	55	Honduras	1
20	Greece	10	56	Hungary	1
21	Switzerland	10	57	Iran (Islamic Republic of)	1
22	Czechia	7	58	Ireland	1
23	Lithuania	7	59	Kazakhstan	1
24	Sweden	7	60	Kenya	1
25	Australia	6	61	Kyrgyzstan	1
26	Bulgaria	6	62	Martinique	1
27	Norway	6	63	Monaco	1
28	Argentina	5	64	Nigeria	1
29	Canada	5	65	North Macedonia	1
30	Croatia	5	66	Paraguay	1
31	Estonia	5	67	Saudi Arabia	1
32	Finland	5	68	South Africa	1
33	Latvia	5	69	Sudan	1
34	Mexico	5	70	Syrian Arab Republic	1
35	Serbia	5	71	Taiwan	1
36	India	4	72	Viet Nam	1

Delegate profiles

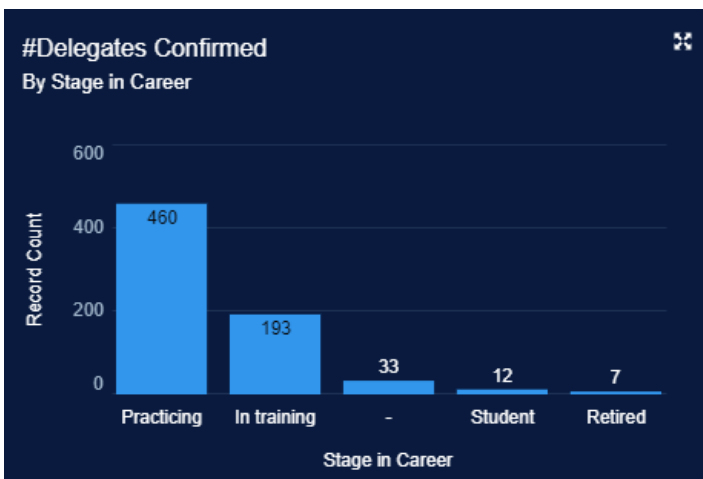
Age Scale

Most of the registrants are aged under 40 years old.

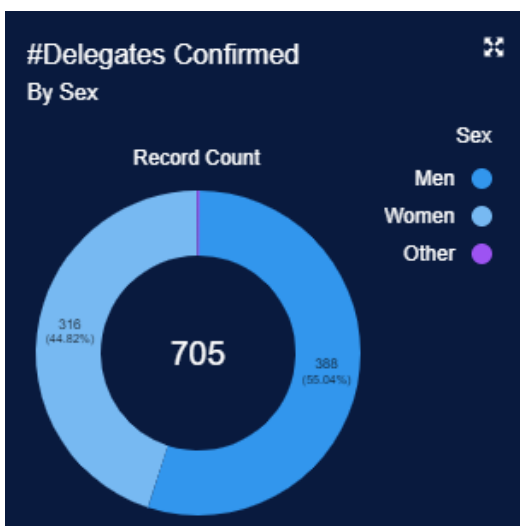


Stage in Career

The majority of the registrants are practicing.



Gender



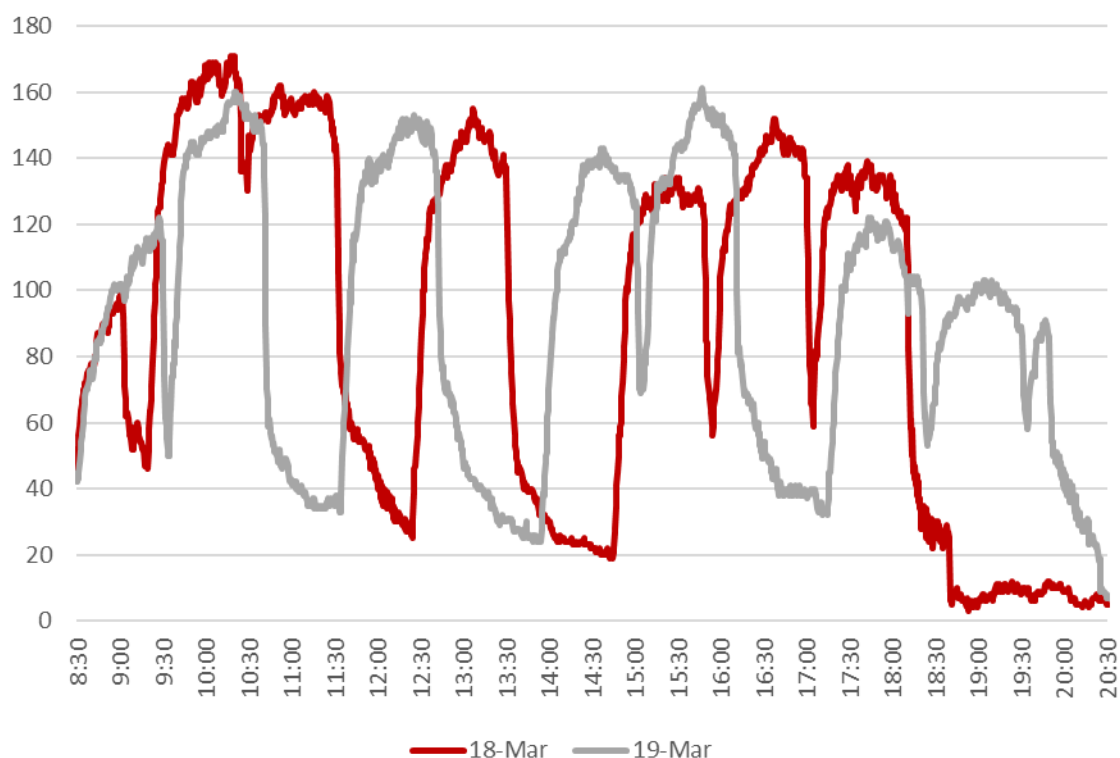
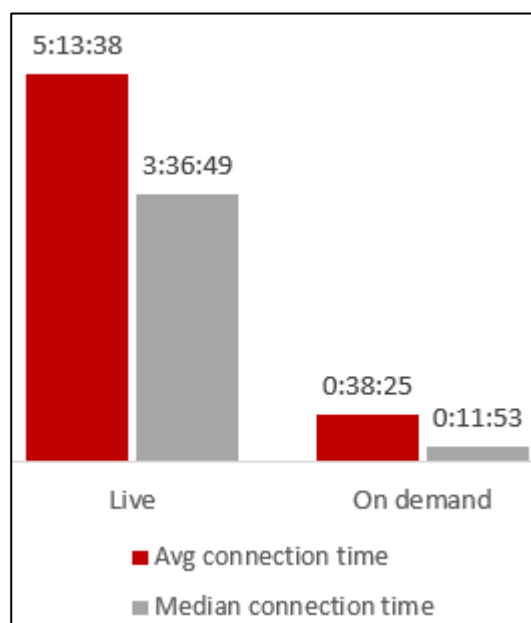
Live programme attendance

The live programme ran on the 18th and 19th March. A delegate is defined as someone logged in to the congress platform between these times

458 delegates in total attended the live event, with **405** attending a live session broadcast

	18 March	19 March
Total event attendees	374	336
Peak simultaneous viewers	171	161

- **5:13 hours** - The average time delegates spent watching live content (median: 3:36 hours)
- **38:25 mins** – the average amount of time delegates spent watching on-demand content (median: 11:53 mins)



Sessions in the topic of *Acute Cardiac Care* were the most popular, attracting **318** unique viewers

Session Topic	Delegates
Acute Cardiac Care	318
Acute Heart Failure	215
Cardiogenic Shock	207
Management of Out-of-Hospital Cardiac Arrest	200
Pulmonary Circulation, Pulmonary Embolism, Right Heart Failure	160
Acute Coronary Syndromes	126
Interventional Cardiology	108
Biomarkers	106
Spontaneous Coronary Artery Dissection (SCAD)	99
Arrhythmias, General	93
Thrombosis, Platelets, and Coagulation	91
Ventricular Arrhythmias and Sudden Cardiac Death (SCD)	91
Cardiac Arrest	87
Echocardiography	79
Lipid-Lowering Agents	64
Cardiac Care Unit (CCU), Intensive, and Critical Cardiovascular Care	37
e-Cardiology/Digital Health	21

'Cardiogenic shock: State of the art 2022' had the highest number of live attendees with **135 delegates** logging on to watch during the course of the broadcast on the 19th March.

Live Session title	18-Mar	19-Mar
Cardiogenic shock: state of the art 2022		135
Optimal management of acute right ventricular failure: know it to treat it	118	
Post-cardiac arrest management	117	
Inaugural session	116	
Update in the treatment of acute heart failure	114	
Pearls for the cardiac intensivist: diagnosis and treatment of common cardiovascular emergencies		110
Techniques in acute cardiovascular care 'Live-in-the-Box'	108	
Step-by-step approach of the patient with out-of-hospital cardiac arrest	103	
Cardiogenic shock: keep the organs running!		103
Challenges and controversies in acute coronary syndromes in 2022		103
Acute heart failure: key messages from the 2021 ESC Guidelines		102
Diagnosis and management of spontaneous coronary artery dissection (SCAD)		99
Closing session		93
Anti-thrombotic management in patients with acute coronary syndromes (ACS)	91	
Sudden cardiac death in the acute phase of acute coronary syndromes (ACS)	91	
Acute cardiovascular care meets cardio-oncology	91	
Oxygen and pressors in cardiac arrest care	87	
Options in patients with refractory cardiogenic shock		86
Emerging concepts to manage patients with acute heart failure in the Emergency Department	84	
Targeted temperature management after cardiac arrest: quo vadis?	80	
All you need is an echo machine!	79	

Learn from the experts: how to use biomarkers in acute cardiovascular care	76	
How to reduce bleeding risk in the acute cardiac care setting: focus on antithrombotic treatment	74	
When two lives are at stake: cardiovascular emergencies around pregnancy		74
Lipid management in patients with acute coronary syndrome: strike early and strong!!	64	
Out-of-hospital cardiac arrest: controversies in 2022		62
New avenues for acute pulmonary embolism (PE)		60
Acute management of patients with congenital heart disease	59	
The pulmonary artery catheter in contemporary cardiac ICUs		50
A deep dive into the 'observe zone' for patients with chest pain in the Emergency Department (ED)		47
The year in acute cardiovascular medicine		46
STEMI care across the globe		44
Acute bare necessities in special patient populations		40
Keys for the current therapeutic management of women in the acute cardiac setting		38
Who keeps the bugs out?	37	
Out-of-hospital cardiac arrest: how to move the needle in outcome		35
Cardiogenic shock is a multidisciplinary endeavor		32
Impact of climate conditions on acute cardiovascular conditions	24	
ACVC Research Prize 2022		21
Digital health in acute cardiac care		21
Young Investigator Awards		19

Event delegates

405 delegates logged on to the congress platform and watched sessions live during congress dates.

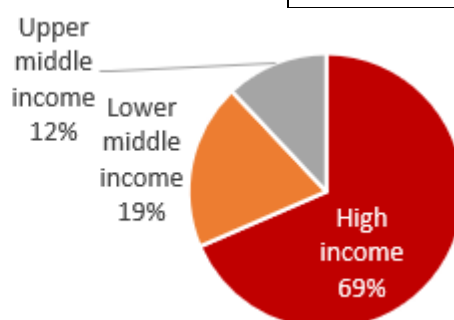
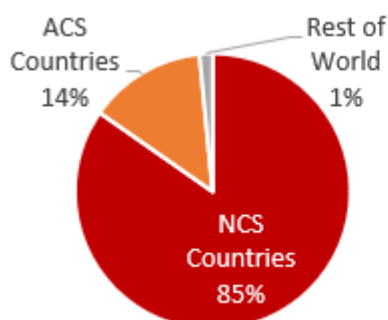
A further **53** delegates logged on to the congress platform during congress dates and only viewed on-demand content.

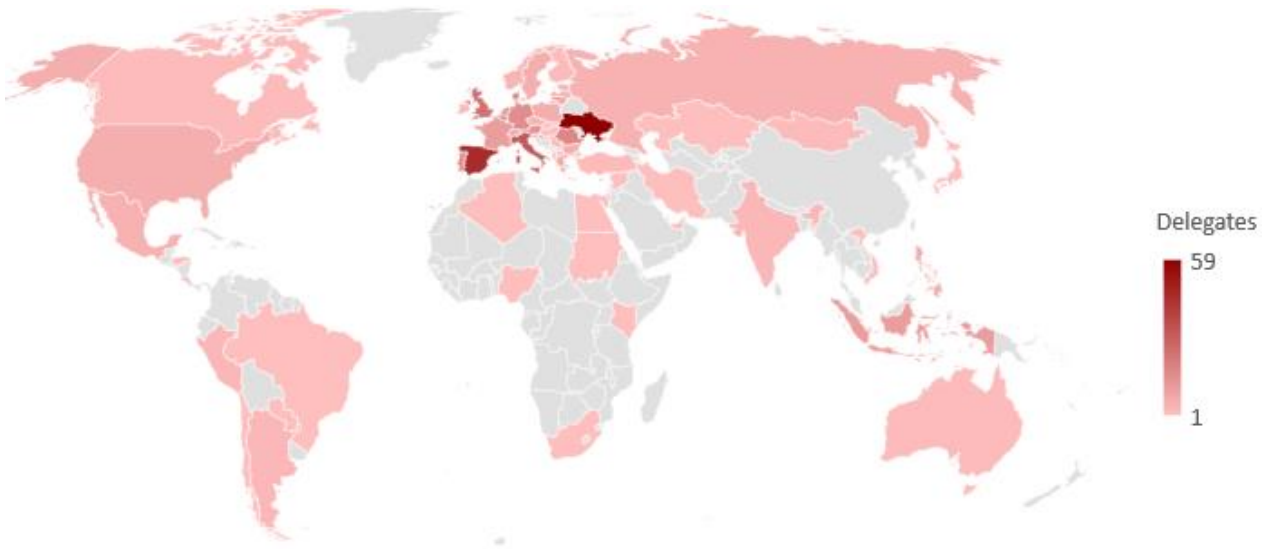
In total, 458 delegates (80% of total registered delegates) logged on to the congress platform during the congress dates and watched live and/or on-demand sessions.

162 delegates had attended Acute Congress 2021 (35.2% of Acute 2022 delegates)

- **458** delegates from **67** countries/territories logged on to the congress platform during the congress times and watched live and/or on-demand sessions.
- **85%** from National Cardiac Society countries
- **14%** of delegates came from Affiliated Cardiac Society countries
- **1%** from rest of world countries

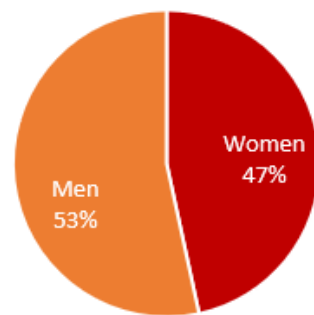
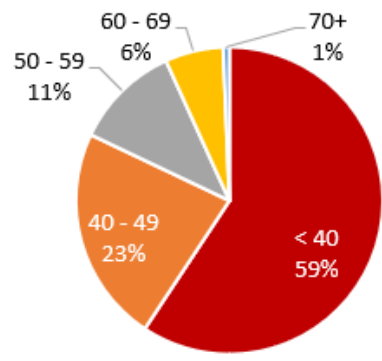
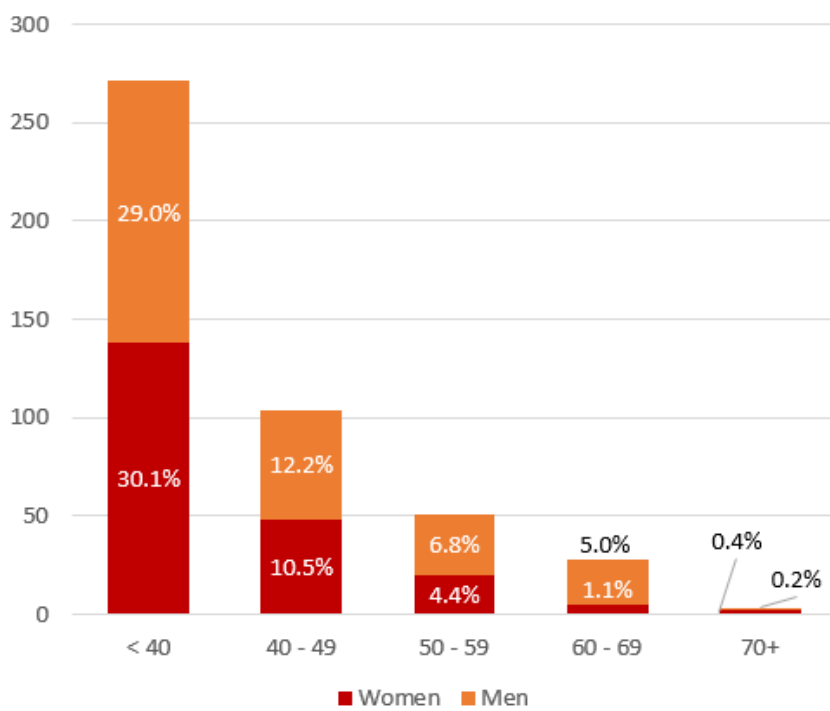
Top 10 countries	Delegates	% of total delegates
Ukraine	59	12.9%
Spain	46	10.0%
Italy	32	7.0%
United Kingdom	25	5.5%
Denmark	19	4.1%
Belgium	19	4.1%
Romania	18	3.9%
Germany	16	3.5%
Portugal	15	3.3%
Austria	15	3.3%





59% of delegates were under 40

47% of delegates were women



54% of delegates were practising cardiology physicians

31% of delegates were students or in training

	Unknown	Student	In Training	Practicing	Retired	Total
Physician Cardiologist		3	96	245	2	346
Physician (non-cardiologist)		1	31	30		62
Unknown	26	3				29
Other		3	5	8		16
Nurse				3		3
Allied Professional				2		2
Grand Total	26	10	132	288	2	458

80% of delegates work in a hospital setting (note that a single delegate can work in more than one setting)

Place of work		
Healthcare - Hospital	367	80.1%
Research Institution - University	141	30.8%
Healthcare - Private Practice	33	7.2%
Research Institution - Non-University	26	5.7%
Administration and Government	14	3.1%
Industry	6	1.3%

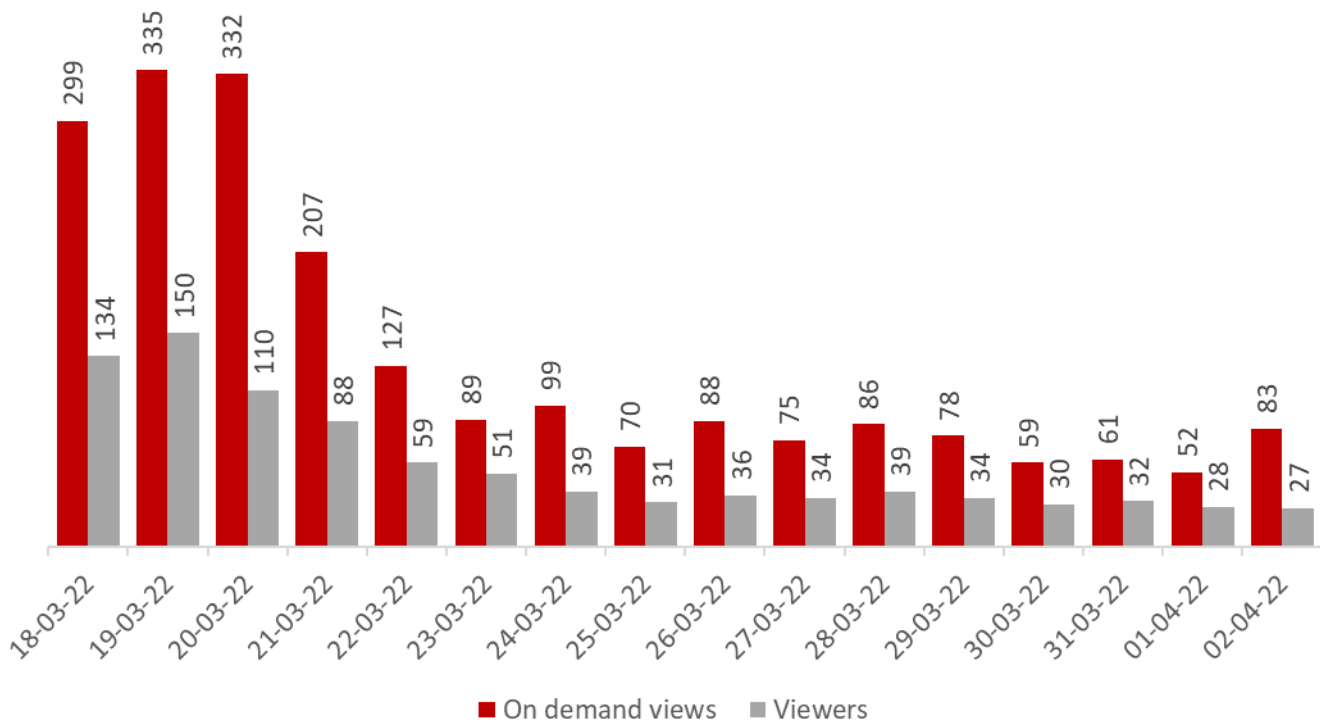
Video on demand

325 unique users have accessed on demand content from the 18th March – 2nd April 2022 (congress dates and 2 weeks post event)

2,140 total daily unique views

6.6 Average resource views / user

56:20 average time a user spent watching on-demand content in the 2 weeks post-event.



“Optimal management of acute right ventricular failure: know it to treat it” was the most watched on-demand video with **74 unique viewers** in the 2 weeks post congress (23% of all on-demand viewers watched this recorded session).

Session	Viewers	% of total
Optimal management of acute right ventricular failure: know it to treat it	74	22.8%
Post-cardiac arrest management	64	19.7%
Anti-thrombotic management in patients with acute coronary syndromes (ACS)	62	19.1%
Update in the treatment of acute heart failure	48	14.8%
Lipid management in patients with acute coronary syndrome: strike early and strong!!	48	14.8%
Oxygen and pressors in cardiac arrest care	44	13.5%

Learn from the experts: how to use biomarkers in acute cardiovascular care	44	13.5%
Cardiogenic shock: state of the art 2022	44	13.5%
Sudden cardiac death in the acute phase of acute coronary syndromes (ACS)	40	12.3%
Emerging concepts to manage patients with acute heart failure in the Emergency Department	39	12.0%
All you need is an echo machine!	39	12.0%
Acute heart failure: key messages from the 2021 ESC Guidelines	37	11.4%
Step-by-step approach of the patient with out-of-hospital cardiac arrest	37	11.4%
A deep dive into the 'observe zone' for patients with chest pain in the Emergency Department (ED)	33	10.2%
How to reduce bleeding risk in the acute cardiac care setting: focus on antithrombotic treatment	32	9.8%
Pearls for the cardiac intensivist: diagnosis and treatment of common cardiovascular emergencies	32	9.8%
Acute cardiovascular care meets cardio-oncology	32	9.8%
The pulmonary artery catheter in contemporary cardiac ICUs	29	8.9%
Acute management of patients with congenital heart disease	29	8.9%
Targeted temperature management after cardiac arrest: quo vadis?	29	8.9%

On-demand viewers came from 61 countries, with little difference in the geographic spread of these users compared to who attended the live event.

Country	OD Viewers	%of total
Ukraine	46	14.2%
Spain	40	12.3%
United Kingdom	19	5.8%
Italy	19	5.8%
Portugal	13	4.0%
Denmark	11	3.4%
Austria	11	3.4%
Belgium	11	3.4%
Romania	10	3.1%
Germany	10	3.1%
Indonesia	8	2.5%
Netherlands	7	2.2%
Greece	6	1.8%
France	6	1.8%
Israel	6	1.8%