

Great Debate: ICD indications for primary prevention in patients with dilated cardiomyopathy – time for a change?**Session Number: 100**Chairpersons: S Priori (Pavia, IT) - AJ Camm (London, GB)

- 12:00** **After the DANISH trial and with modern medical therapy, primary preventive ICD implantation is no longer a Class I indication in DCM patients.**
N Dagues (Leipzig,DE)
- 12:15** **After the DANISH trial and with modern medical therapy, primary preventive ICD implantation remains a Class I indication in DCM patients.**
FD Murgatroyd (London,GB)
- 12:30** **Great Debate: ICD indications for primary prevention in patients with dilated cardiomyopathy – time for a change? – discussion.**
C Sticherling (Basel,CH)

Learning Objectives:

Categories: Live Q&A

Choosing wisely: ablation or medication for rhythm control in atrial fibrillation?

Session Number: 101

Chairpersons: N Marrouche (New Orleans, US) - M Duytschaever (Brugge, BE)

- 08:00 When is ablation the preferred approach to treat atrial fibrillation?**
D Gupta (Liverpool,GB)
- 08:11 Ablation or amiodarone for HFrEF patients with atrial fibrillation?**
I Deisenhofer (Munich,DE)
- 08:22 The role of modifiable risk factors for the maintenance of sinus rhythm in the atrial fibrillation patient.**
J Kalman (Victoria,AU)
- 08:33 Choosing wisely: ablation or medication for rhythm control in atrial fibrillation – discussion.**
L Eckardt (Munster,DE)

Learning Objectives:

Categories: Live Q&A

Preventing sudden death: alternatives to transvenous defibrillators

Session Number: 102

Chairpersons: M Zabel (Goettingen, DE)

- 09:30 The subcutaneous defibrillator: opportunities and drawbacks.**
H Burri (Geneva,CH)
- 09:41 The wearable defibrillator: is it ever indicated?**
L Fauchier (Tours,FR)
- 09:52 When can VT ablation obviate the need for an ICD in patients with preserved ejection fraction?**
K Zeppenfeld (Leiden,NL)
- 10:03 Preventing sudden death: alternatives to transvenous defibrillators – discussion.**
E Sciaraffia (Uppsala,SE)

Learning Objectives:

Categories: Live Chat, Spotlight of the Congress

Meet the Experts: sudden cardiac death in the patient with an apparently normal heart

Session Number: 103

Chairpersons: J Tfelt-Hansen (Copenhagen, DK) - S Viskin (Tel Aviv, IL)

08:00 Sudden cardiac death in the apparently normal heart: how common is it and what are the reasons?

C Semsarian (Sydney,AU)

08:15 Genetic and clinical work-up of family members after sudden cardiac death.

ER Behr (London,GB)

08:30 Meet the Experts: sudden cardiac death in the patient with an apparently normal heart – discussion.

B Kommata (Uppsala,SE)

Learning Objectives:

Categories: Live Q&A, Spotlight of the Congress

Meet the Experts: risk calculators to predict sudden cardiac death in cardiomyopathies. A blessing in disguise?

Session Number: 104

Chairpersons: P Charron (Paris, FR)

12:00 Risk calculators in hypertrophic cardiomyopathy: are there pitfalls?
PM Elliott (London,GB)

12:15 When and how to use risk calculators in ARVC and laminopathies.
J Cadrin-Tourigny (Montreal,CA)

12:30 Meet the Experts: risk calculators to predict sudden cardiac death in cardiomyopathies. A blessing in disguise? – discussion.
T Friede (Goettingen,DE)

Learning Objectives:

Categories: Live Q&A, Spotlight of the Congress

**Treatment of asymptomatic patients with arrhythmic substrates: do
benefits outweigh side effects?****Session Number: 105**Chairpersons: N Pavlovic (Zagreb, HR)

- 09:30 Prophylactic ablation of preexcitation: when and for whom?**
J Brugada Terradellas (Barcelona,ES)
- 09:41 Treatment of asymptomatic PVCs: when should it be attempted?**
T Reichlin (Bern,CH)
- 09:52 What is the optimal treatment of asymptomatic patients with primary electrical syndromes?**
K Haugaa (Oslo,NO)
- 10:03 Treatment of asymptomatic patients with arrhythmic substrates: do benefits outweigh side effects? – discussion.**
P Lambiase (London,GB)

Learning Objectives:

Categories: Live Chat

Managing recurring ICD shocks for ventricular tachyarrhythmias

Session Number: 106

Chairpersons: J Poole (Seattle, US)

- 09:30 A patient with recurring ICD shocks: case presentation.**
P Raatikainen (Tampere,FI)
- 09:41 A patient with recurring ICD shocks: how I would treat.**
P Peichl (Prague,CZ)
- 09:52 A patient with recurring ICD shocks: how I did treat.**
P Raatikainen (Tampere,FI)
- 10:03 Managing recurring ICD shocks for ventricular tachyarrhythmias – discussion.**
M De Riva Silva (Leiden,NL)

Learning Objectives:

Categories: Live Chat

New methods for atrial fibrillation ablation: improving efficacy and safety

Session Number: 107

Chairpersons: A Verma (Newmarket, CA) - S Ernst (London, GB)

- 12:00 The promise of safe and selective atrial fibrillation ablation: electroporation.**
M Hocini (Pessac,FR)
- 12:11 Ultralow temperature cryoablation and high-powered short duration ablation for atrial fibrillation.**
T De Potter (Aalst,BE)
- 12:22 Lesion depth assessment and large footprint atrial fibrillation ablation.**
E Anter (Brookline,US)
- 12:33 New methods for atrial fibrillation ablation: improving efficacy and safety – discussion.**
D Shah (Geneva,CH)

Learning Objectives:

Categories: Live Q&A

Tips and tricks in cardiac resynchronisation therapy

Session Number: 108

Chairpersons: C Leclercq (Rennes, FR)

10:30 Challenging LV lead placement for CRT: tips, tricks and troubleshooting.
JB Johansen (Odense M,DK)

10:45 When to revert to His-Purkinje system pacing in challenging CRT.
Z Whinnett (London,GB)

11:00 Tips and tricks in cardiac resynchronisation therapy – discussion.
C Linde (Stockholm,SE)

Learning Objectives:

Categories: Live Chat

Atrial arrhythmias and anticoagulation: challenging clinical scenarios**Session Number: 109**Chairpersons: C Blomstrom-Lundqvist (Uppsala, SE) - H Crijns (Maastricht, NL)**08:00 Atrial fibrillation and anticoagulation with cardioversion: immediate or delayed?**

G Boriani (Castenaso-Bo,IT)

08:11 The high risk patient with atrial high rate episodes (AHRE).

P Kirchhof (Hamburg,DE)

08:22 Atrial fibrillation and anticoagulation: the patient with reduced kidney function – how to prevent stroke.

GYH Lip (Liverpool,GB)

08:33 Atrial arrhythmias and anticoagulation: challenging clinical scenarios – discussion.

J Steffel (Zurich,CH)

Learning Objectives:

Categories: Live Q&A

**Great Debate: cryoablation as first line treatment for atrial fibrillation.
Time for a change to increase efficacy and safety?****Session Number: 110**Chairpersons: C Blomstrom-Lundqvist (Uppsala, SE) - P Raatikainen (Tampere, FI)

- 08:00 Cryoablation should be first line treatment for all patients with paroxysmal atrial fibrillation: pro.**
K Chun (Frankfurt,DE)
- 08:15 Cryoablation should be first line treatment for all patients with paroxysmal atrial fibrillation: con.**
L Mont (Barcelona,ES)
- 08:30 Great Debate: cryoablation as first line treatment for atrial fibrillation. Time for a change to increase efficacy and safety? – discussion.**
RJ Schilling (London,GB)

Learning Objectives:

Categories: Live Q&A

Great Debate: will VT ablation improve long-term outcome?**Session Number: 111**Chairpersons: P Della Bella (Milan, IT) - E Arbelo (Barcelona, ES)

- 12:00 VT ablation improves long-term outcome: pro.**
L Di Biase (New York,US)
- 12:15 VT ablation improves long-term outcome: con.**
S Willems (Hamburg,DE)
- 12:30 Great Debate: will VT ablation improve long-term outcome? – discussion.**
K Kuck (Hamburg,DE)

Learning Objectives:

Categories: Live Q&A

Prediction of sudden cardiac death: genetic testing, ECG, and imaging

Joint with the Japanese Circulation Society (JCS)

Session Number: 112

Chairpersons: W Shimizu (Tokyo, JP) - KE Odening (Bern, CH)

- 09:30 Prediction of sudden cardiac death by comprehensive genetic screening.**
T Aiba (Suita,JP)
- 09:41 Differential prediction of sudden cardiac death and heart failure death using machine learning and nuclear cardiology.**
K Nakajima (Kanazawa,JP)
- 09:52 Pathogenesis and risk stratification of sudden cardiac death in Brugada syndrome.**
ER Behr (London,GB)
- 10:03 Prediction of sudden cardiac death: genetic testing, ECG, and imaging – discussion.**
B Winkel (Copenhagen,DK)

Learning Objectives:

Categories: Live Chat, Spotlight of the Congress

Sudden cardiac death in Asia

Session Number: 113

Joint with the Korean Society of Cardiology (KSC)

Chairpersons: Y Cho (Daegu, KR) - J Tfelt-Hansen (Copenhagen, DK)

09:30 Sudden cardiac death in Korea: current status and future perspectives.
JI Choi (Seoul,KR)

09:41 Mechanisms underlying catheter ablation of early repolarisation syndrome in experimental model.
NS Yoon (Gwangju,KR)

09:52 Catheter ablation in patients with Brugada syndrome.
A Sarkozy (Edegem,BE)

10:03 Sudden cardiac death in Asia – discussion.
G Tse (Shatin,HK)

Learning Objectives: As the spotlight of ESC Congress 2021 would be "Sudden Cardiac Death", we would like to organize a joint session in these topic and focus and share the knowledge of it in Asia region.

Categories: Live Chat, Spotlight of the Congress

Sudden cardiac death: from prevention to early intervention!

Session Number: 114

Joint with the Canadian Cardiovascular Society (CCS)

Chairpersons: LM Mielniczuk (Ottawa, CA) - G Breithardt (Munster, DE)

- 08:00 Strategies to increase success rates of resuscitation in the community.**
K Allan (- ,CA)
- 08:11 Prevention of sudden cardiac death in families.**
A Krahn (Vancouver,CA)
- 08:22 Risk stratification tools for primary prevention of sudden cardiac death.**
HV Huikuri (Oulu,FI)
- 08:33 Sudden cardiac death: from prevention to early intervention! – discussion.**
H Tan (Amsterdam,NL)

Learning Objectives: At the end of this session participants will be able to:
Appreciate the importance of national and international networking to reduce the burden of sudden cardiac death.
Outline strategies to increase success rates of resuscitation in the community.
Understand the screening strategies including genetic testing and phenotyping in families with arrhythmogenic disorders.

Categories: Live Chat, Spotlight of the Congress

Update: arrhythmogenic cardiomyopathy and long QT syndrome

Session Number: 115

Joint with the South African Heart Association (SAHA)

Chairpersons: B Cupido (Cape Town, ZA) - U Schotten (Maastricht, NL)

12:00 Clinical experience and genetic underpinning of arrhythmogenic cardiomyopathy in southern Africa.
S Kraus (Cape Town,ZA)

12:11 Long QT syndrome: the long way from almost zero knowledge to precision medicine.
PJ Schwartz (Milan,IT)

12:22 Predicting risk for sudden cardiac death in gene carriers in arrhythmogenic cardiomyopathies.
P Van Tintelen (Utrecht,NL)

12:33 Update: arrhythmogenic cardiomyopathy and long QT syndrome – discussion.
H Estner (Munchen,DE)

Learning Objectives: New evidence and overview of experience in South Africa.

Categories: Live Chat

Therapeutic interventions and risk of sudden cardiac death in structural heart disease

Joint with the Brazilian Society of Cardiology (BSC)

Session Number: 116

Chairpersons: F Bacal (Sao Paulo, BR) - A Lubinski (Lodz, PL)

- 08:00 Chagas' cardiomyopathy: ICD or amiodarone for the primary prevention of sudden death?**
M Moreira (Belo Horizonte, BR)
- 08:11 Aortic stenosis: the ideal moment of intervention to reduce risk of sudden death.**
P Lemos (Sao Paulo, BR)
- 08:22 Impact of optimal medical treatment for the prevention of sudden cardiac death in heart failure.**
JJV McMurray (Glasgow, GB)
- 08:33 Therapeutic interventions and risk of sudden cardiac death in structural heart disease – discussion.**
M Glikson (Jerusalem, IL)

Learning Objectives: Structural diseases that lead to ventricular dysfunction affect patients' quality of life and survival, with a higher risk of sudden death.
In this session, we will have the opportunity to discuss therapeutic approach strategies that impact on reduction of mortality.

Categories: Live Chat, Spotlight of the Congress

Epidemiology and investigation of sudden cardiac death in the young

Session Number: 117 **Joint with the Cardiac Society of Australia and New Zealand (CSANZ)**

Chairpersons: C K Chow (Westmead, AU) - S Ernst (London, GB)

08:00 **Causes of sudden cardiac death in the young.**

E Paratz (Melbourne,AU)

08:11 **Guideline-based investigation and management of sudden cardiac death in the young.**

M Stiles (Hamilton,NZ)

08:22 **Investigation of patients, their families, and descendants with unexplained sudden cardiac arrest.**

S Priori (Pavia,IT)

08:33 **Epidemiology and investigation of sudden cardiac death in the young – discussion.**

A Wilde (Amsterdam,NL)

Learning Objectives: Identify the causes of sudden cardiac death in the young
Understand the genetic basis of inherited CV diseases that cause sudden death
Learn how to investigate and manage the family following sudden cardiac death
Discuss prevention strategies both in individuals (eg ICD therapy) and in the community (CPR and public access defibrillators)

Categories: Live Chat, Spotlight of the Congress

Cardiac device infections: risks and prevention

Session Number: 126

Chairpersons: C Israel (Bielefeld, DE) - J Kautzner (Prague, CZ)

10:30 State-of-the-art lecture in cardiac device infections: risks and prevention

MG Bongiorno (Pisa, IT)

10:45 Predictors of cardiac implantable electronic device infection in the United States

11:00 Analysis of patients undergoing transvenous lead extraction and identifying possible predictors of all-cause mortality

A Azari (Stockholm, SE)

Learning Objectives:

Categories: Abstract-Based Programme

Highlights from the Young in atrial fibrillation

Session Number: 127

Chairpersons: T Lewalter (Munich, DE) - M Taborsky (Olomouc, CZ)

- 20:15** **Generalizability of the EAST-AFNET 4 trial: assessing outcomes of early rhythm-control therapy in patients with atrial fibrillation**
J Dickow (Hamburg,DE)
- 20:24** **Real-world applicability and impact of early rhythm control for European patients with atrial fibrillation: a secondary analysis from the ESC-EHRA EORP-AF general long-term registry**
- 20:33** **Acute change in parasympathetic cardiac innervation after pulmonary vein isolation by pulse-field and radiofrequency energy**
P Stojadinovic (Prague,CZ)
- 20:42** **The association of stroke rate with low density lipoprotein and statin exposure in patients with atrial fibrillation (AF)**
B Shweikialrefaee (Toronto,CA)
- 20:51** **Lower heart rates and beta-blockers are associated with new-onset atrial fibrillation**
N Habel (Burlington,US)

Learning Objectives:

Categories: Abstract-Based Programme

Cardiac arrhythmias and COVID-19**Session Number: 128**Chairpersons: P Arvanitis (Uppsala, SE) - P Vardas (Athens, GR)**07:15 Inappropriate sinus tachycardia in post-COVID-19 syndrome****07:24 Cardiac arrhythmias 3 months after hospitalization for COVID-19****07:33 Arrhythmia patterns in patients with COVID-19 infection during and post hospitalization detected via a patch-based mobile cardiac telemetry system.**
O Reynbakh (New York,US)**07:42 Frontal QRS/T angle can predict mortality in COVID-19 patients**
R Gunduz (Balikesir,TR)**07:51 Atrial fibrillation is associated with poor clinical trajectory of COVID-19**

Learning Objectives:

Categories: Abstract-Based Programme, COVID-19

Atrial fibrillation: the role of risk markers**Session Number: 129**Chairpersons: C Schmidt (Heidelberg, DE) - M Kuhne (Basel, CH)

20:15 The association of chronic kidney disease with outcomes following percutaneous left atrial appendage closure

20:24 Risk of atrial fibrillation in young adults aged 20 to 39 years with isolated diastolic, isolated systolic, and systolic-diastolic hypertension: a nationwide population-based study

20:33 Clinical risk factors and P wave indices in prediction of atrial fibrillation development during long-term follow-up after acute ST-segment elevation myocardial infarction.
M Baturova (St Petersburg,RU)

20:42 Dynamic changes of cardiovascular biomarkers after ablation for atrial fibrillation: Observations from AXAFA-AFNET5.
W Chua (Birmingham,GB)

20:51 XARENO: a real-world, prospective observational study to compare rivaroxaban versus vitamin K antagonist treatment in patients with atrial fibrillation and advanced chronic kidney disease
R Kreutz (Berlin,DE)

Learning Objectives:

Categories: Abstract-Based Programme

Atrial fibrillation: risks and management**Session Number: 130**Chairpersons: E Arbelo (Barcelona, ES) - MV Huisman (Leiden, NL)

- 07:15 Risk of dementia according to smoking cessation after newly diagnosed atrial fibrillation: a nationwide cohort study**
H Lee (- ,KR)
- 07:24 Beta-blocker treatment in atrial fibrillation with chronic obstructive pulmonary disease: a Danish nationwide study from 1995 to 2015**
C Benson (- ,DK)
- 07:33 Lower risk of stroke after alcohol abstinence in patients with incident atrial fibrillation: a nationwide population-based cohort study**
- 07:42 Chronic kidney disease and risk of atrial fibrillation and heart failure in general population-based cohorts - the BiomarCaRE project.**
D Rothenbacher (Ulm,DE)
- 07:51 Comparative effectiveness and safety of edoxaban vs warfarin in patients with atrial fibrillation: a nationwide cohort study**
PB Nielsen (Aalborg,DK)

Learning Objectives:

Categories: Abstract-Based Programme

Syncope, bradycardia and pacemakers: details matter**Session Number: 131**Chairpersons: V Probst (Nantes, FR) - L Van Erven (Leiden, NL)

- 07:15 Benefits for clinical outcomes associated with dual-chamber pacing versus ventricular pacing in patients with sinus-node dysfunction: a nationwide matched control study**
L Fauchier (Tours,FR)
- 07:24 Prognostic impact of percentage of ventricular pacing in patients requiring pacemaker implantation after transcatheter aortic valve replacement**
JP Dias Ferreira Reis (Lisboa,PT)
- 07:33 Conventional transvenous or leadless ventricular permanent pacemakers: post-operative complications and mid-term follow-up.**
A Bodin (Tours,FR)
- 07:42 Lifelong and mature-onset syncope in older adults may have different mechanisms**
P Torabi (Lund,SE)
- 07:51 Frequency and predictors of physical trauma during reflex syncope**
H Tavolinejad (Tehran,IR)

Learning Objectives:

Categories: Abstract-Based Programme

Inherited diseases and ventricular arrhythmias**Session Number: 132**Chairpersons: A Arenal Maiz (Madrid, ES) - P Lambiase (London, GB)

- 20:15 Long-term outcome of patients with cardiomyopathy undergoing defibrillator implantation: single-center experience.**
V Dusi (Milano, IT)
- 20:24 Plakophilin-2 mutations are associated with a better prognosis in arrhythmogenic right ventricular cardiomyopathy**
K Borowiec (Warsaw, PL)
- 20:33 Sex-differences and utility of treadmill testing in identification and genotype prediction in LQTS: a sub-study of the national LQTS registry and canadian hearts in rhythm registry**
L Yee (Vancouver, CA)
- 20:42 Evaluation of electrocardiographic predictors of brugada type response during flecainide challenge**
X Shen (Singapore, SG)
- 20:51 Optimal ablation targets during second catheter ablation in patients with persistent AF**

Learning Objectives:

Categories: Abstract-Based Programme

Clinical questions: management of patients with atrial fibrillation**Session Number: 133**Chairpersons: D Scherr (Graz, AT)

- 07:15 Early Rhythm-Control Therapy in Patients with Atrial Fibrillation: A nationwide cohort study**
T Chao (Taipei,TW)
- 07:24 Risk of atrial fibrillation development of sodium-glucose co-transporter 2 inhibitor and thiazolidinedione treatment among patients with type 2 diabetes**
YR Kim (Goyang-Si,KR)
- 07:33 Oral anticoagulation in atrial fibrillation patients at intermediate risk of stroke: a nationwide registry-based cohort (Atrial Fibrillation in Norway - AFNOR)**
- 07:42 Are the results of the RATE-AF trial reproducible in daily practice? Clinical outcomes with digoxin vs beta-blocker for heart rate control in permanent atrial fibrillation**
L Fauchier (Tours,FR)
- 07:51 Low incidence of major complications after the first six hours post-atrial fibrillation ablation - same-day discharge safe and feasible in most patients**
A Paul Nordin (Stockholm,SE)

Learning Objectives:

Categories: Abstract-Based Programme

Novel approaches to catheter ablation**Session Number: 134**Chairpersons: C Sticherling (Basel, CH) - H Kottkamp (Duesseldorf, DE)

- 07:15 Long-term outcome of endocardial-only versus combined endocardial-epicardial homogenization of the scar for treatment of ventricular tachycardia in patients with ischemic cardiomyopathy**
- 07:24 Mutation in a non-desmosomal gene is associated with poor outcome of endo-epicardial ventricular tachycardia ablation in patients with nonischaemic cardiomyopathy**
P Peichl (Prague,CZ)
- 07:33 Acute safety and performance outcomes from the insPIRE trial using a novel pulsed field ablation system for the treatment of paroxysmal atrial fibrillation**
T De Potter (Aalst,BE)
- 07:42 High precision machine learning-enabled ECG algorithm for predicting sites of idiopathic ventricular arrhythmia origin**
J Zheng (- ,US)
- 07:51 Recovery of conduction following high power short duration approach in radiofrequency catheter ablation for atrial fibrillation: a single-center experience**

Learning Objectives:

Categories: Abstract-Based Programme

**Congress committee e-posters choice in arrhythmias and device
therapy**

Session Number: 135

Chairpersons:

C Blomstrom-Lundqvist (Uppsala, SE) - K Zeppenfeld (Leiden, NL) - S Tzeis
(Maroussi, GR) - C Sticherling (Basel, CH) - T De Potter (Aalst, BE)

- 08:00 Treatment timing and the effects of rhythm-control strategy in patients with atrial fibrillation: a nationwide cohort study**
- 08:00 Left atrial dysfunction still exists in patients who obtain normal left atrial volume after successful ablation of atrial fibrillation.**
H Kawakami (Toon,JP)
- 08:00 Same day discharge after atrial fibrillation ablation is feasible and safe. Results of a prospective study in 1015 patients**
M Viezelis (- ,LT)
- 08:00 Benefits of early intervention with catheter ablation in patients with atrial fibrillation**
- 08:00 Cryoballoon ablation of atrial fibrillation in low and medium volume hospitals - experiences of the German REGIONAL registry**
J Michaelsen (Lingen,DE)
- 08:00 Accuracy comparison of the new and previous Kodex occlusion tool software versions to assess pulmonary vein occlusion in atrial fibrillation cryoablation**
- 08:00 Bystander dispatcher-assisted cardiopulmonary resuscitation for the likelihood of an initial shockable rhythm after out-of-hospital cardiac arrest**
Y Goto (Kanazawa,JP)
- 08:00 Automated external defibrillators delivered by drones to patients with suspected out-of-hospital cardiac arrest**
S Schierbeck (Farsta,SE)
- 08:00 Bystander cardiopulmonary resuscitation and automated external defibrillator use after out-of-hospital cardiac arrest: uncovering differences in care and survival across the urban-rural spectrum**
N Grubic (- ,CA)
- 08:00 Family screening in brugada syndrome patients**
- 08:00 Single-chamber transvenous and subcutaneous defibrillators: clinical outcomes.**
A Bodin (Tours,FR)
- 08:00 Prognosis of apical hypertrophic cardiomyopathy in patients with an implantable cardioverter defibrillator**
- 08:00 Antiarrhythmic drug therapy after catheter ablation for atrial fibrillation has no impact on recurrences, cardiovascular events and mortality - insights from the german ablation registry**
- 08:00 Impact of programming in a large cohort of implantable cardioverter-defibrillator patients with long-term follow-up: findings from the UMBRELLA study**
S Briongos Figuero (Madrid,ES)
- 08:00 Trends in all-cause mortality of atrial fibrillation in hospitalized patients in Sweden between 1995-2008**
- 08:00 Use of rivaroxaban versus warfarin in patients with atrial fibrillation and advanced chronic kidney disease**

- 08:00** **An electrocardiographic diagnostic model for differentiating right from left ventricular outflow tract arrhythmias origin**
R Luna (Madrid,ES)
- 08:00** **Incidence of atrial fibrillation. A comprehensive nationwide analysis in Finland.**
- 08:00** **Impact of supervised physical training on vasovagal syncope; a randomized controlled trial**
M Tajdini (Tehran,IR)
- 08:00** **Risk of cerebrovascular events in intracerebral haemorrhage survivors with atrial fibrillation: The Danish Stroke Registry**
- 08:00** **Impact of malnutrition on the relationship between obesity and mortality in patients with atrial fibrillation**
M Cespon Fernandez (Pontevedra,ES)
- 08:00** **Age-adjusted risk factors are independently associated with an increased risk of major bleeding during the two-year follow-up of the ETNA-AF-Europe registry**
- 08:00** **Very high-power short-duration ablation versus conventional ablation-index guided ablation for pulmonary vein isolation: the Fast and Furious - AF study**
CH Heeger (Luebeck,DE)
- 08:00** **The 30-day readmission of same-day discharge following pulmonary vein isolation for atrial fibrillation: a propensity score-matched analysis from National Readmission Database.**
- 08:00** **New insights into risk stratification of Brugada syndrome from high density epicardial electroanatomic mapping**
L Pannone (Milan,IT)
- 08:00** **Molecular characterization of a cohort of individuals referred to genetic testing with suspected CPVT.**
G Fernandez (Oleiros,ES)
- 08:00** **A multicentered evaluation of the waiting period after PVI guided by the Ablation Index**

Learning Objectives:

Categories: Abstract-Based Programme

Immunotherapy for cardiovascular disease

Session Number: 140

Chairpersons: C Giannarelli (New York, US)

12:00 Immunotherapy for cardiovascular prevention: ready for prime time?
P Libby (Boston,US)

12:11 Targeting the neuro inflammatory axis in cardiovascular disease.
K Tracey (New York,US)

12:22 Targeting cardiac inflammation: from myocarditis to heart failure.
F Marelli-Berg (- ,GB)

12:33 Immunotherapy for cardiovascular disease – discussion.
C Monaco (Oxford,GB)

Learning Objectives:

Categories: Live Q&A

Cardiovascular consequences post-COVID: bench to bedside

Session Number: 141

Chairpersons: C Tschoepe (Berlin, DE) - J Wiersinga (Amsterdam, NL)

- 08:00 Post-COVID consequences for the heart: insights from single cell analysis.**
S Van Linthout (Berlin,DE)
- 08:11 Post-COVID consequences for the lungs.**
S Adnot (Creteil,FR)
- 08:22 Other post-COVID consequences: brain, kidneys and skeletal muscles.**
CAC Ottenheijm (Amsterdam,NL)
- 08:33 Cardiovascular consequences post-COVID: bench to bedside – discussion.**
S Heymans (Maastricht,NL)

Learning Objectives:

Categories: Live Q&A

Scientists of Tomorrow meet the scientists of today**Session Number: 142**Chairpersons: S Bollini (Genova, IT) - M Gladka (Amsterdam, NL)

08:00 Cardiac arrhythmias: from basic research to clinical application.
S Priori (Pavia, IT)

08:11 Inflammation: molecular mechanisms and therapeutic utility.
C Weber (Muenchen, DE)

08:22 Cardiac lymphatics: a new road to cardiac repair?
T Finkel (Bethesda, US)

08:33 Scientists of Tomorrow meet the scientists of today – discussion.
M Abdellatif (Graz, AT)

Learning Objectives:

Categories: Live Q&A

Will basic science solve the problem of arrhythmias?

Session Number: 143

Chairpersons: D Thomas (Heidelberg, DE) - KE Odening (Bern, CH)

- 12:00** **Gene therapy to treat genetic arrhythmia disorders: mechanism-based approaches to correct pathophysiology.**
L Crotti (Pavia,IT)
- 12:11** **In silico approaches to prevent arrhythmias: personalised model-guided anti arrhythmic therapies and risk assessment.**
J Heijman (Maastricht,NL)
- 12:22** **Big data for cardiac arrhythmia management: ECGs, biomarkers, genetics and beyond.**
B Casadei (Oxford,GB)
- 12:33** **Will basic science solve the problem of arrhythmias? – discussion.**
AM Gomez (Chatenay-Malabry Cedex,FR)

Learning Objectives:

Categories: Live Q&A

Dietary interventions for optimised cardiovascular health**Session Number: 144**Chairpersons: R Adao (Porto, PT)

- 09:30 Caloric restriction and cardiometabolic health.**
L Fontana (Sydney,AU)
- 09:41 Time-restricted eating: effects on body weight and cardiovascular health.**
K Varady (Chicago,US)
- 09:52 Pharmacological mimicry of caloric restrictions: is it prime time for cardiovascular health without fasting?**
S Sedej (Graz,AT)
- 10:03 Dietary interventions for optimised cardiovascular health – discussion.**
R De Cabo (Baltimore,US)

Learning Objectives:

Categories: Live Chat

What's wrong with current models of cardiovascular disease?

Session Number: 145

Chairpersons: P Maffia (Glasgow, GB)

- 10:30 Pitfalls and opportunities of (different) models for arrhythmia: research.**
CA Remme (Amsterdam Z0,NL)
- 10:41 Progress and challenges in translating the biology of atherosclerosis.**
A Daugherty (Kentucky,US)
- 10:52 How to ensure your animal model is representing human disease: heart failure.**
J Hill (Dallas,US)
- 11:03 What's wrong with current models of cardiovascular disease? – discussion**
G Pasterkamp (Utrecht,NL)

Learning Objectives:

Categories: Live Chat

HFpEF: different mechanistic phenotypes require distinct therapeutic strategies**Session Number: 146**Chairpersons: M Abdellatif (Graz, AT) - J van der Velden (Amsterdam, NL)

- 12:00 HFpEF as a coronary inflammatory syndrome.**
S Heymans (Maastricht,NL)
- 12:11 HFpEF as a cardiometabolic syndrome.**
N Hamdani (Bochum,DE)
- 12:22 HFpEF as a cardiorenal syndrome.**
J Fang (Salt Lake City,US)
- 12:33 HFpEF: different mechanistic phenotypes require distinct therapeutic strategies – discussion.**
I Falcao-Pires (Porto,PT)

Learning Objectives:

Categories: Live Q&A

Great Debate: is single cell biology a door-opener for personalised medicine or just another playground?**Session Number: 147**Chairpersons:

M Gladka (Amsterdam, NL) - S Dimmeler (Frankfurt, DE)

08:00 Single cell technologies provide mechanistic insights and may pave the way to new diagnostic approaches and therapies: pro.

M Nosedá (London,GB)

08:15 Single cell technologies provide mechanistic insights and may pave the way to new diagnostic approaches and therapies: con.

M Mayr (London,GB)

08:30 Great Debate: is single cell biology a door-opener for personalised medicine or just another playground? – discussion.

N Huebner (Berlin,DE)

Learning Objectives:

Categories: Live Q&A

Single cell biology and analysis: how to make sense of single cell data**Session Number: 148**Chairpersons: A Zerneck-Madsen (Munich, DE)

- 09:30 Wet lab issues of single cell biology: from cell/nuclei isolation to library preparations: what can go wrong?**
D Wolf (Freiburg Im Breisgau,DE)
- 09:41 Bioinformatic tools: opportunities and pitfalls.**
M Heinig (Munich,DE)
- 09:52 Beyond single cell RNA sequencing: spatial transcriptomics, epigenetics and more.**
C Kuppe (Aachen,DE)
- 10:03 Single cell biology and analysis: how to make sense of single cell data – discussion.**
NR Tucker (Utica,US)

Learning Objectives:

Categories: Live Chat

What does science teach us about life with genetic heart disease?

Session Number: 149

Chairpersons: PM Elliott (London, GB) - H Schunkert (Muenchen, DE)

- 12:00 Impact of complex genetic traits on disease development and severity.**
CR Bezzina (Amsterdam,NL)
- 12:11 Precision medicine in genetic heart disease: evidence for mutation-specific pathomechanisms and drug efficacy.**
C Ferrantini (Firenze,IT)
- 12:22 Strength of human stem cell-based models to define cellular pathomechanisms and test drugs.**
C Toepfer (- ,GB)
- 12:33 What does science teach us about life with genetic heart disease? – discussion.**
KE Odening (Bern,CH)

Learning Objectives:

Categories: Live Q&A

RNA Therapeutics: from vaccination to regenerative medicine

Session Number: 150

Chairpersons: E Van Rooij (Utrecht, NL) - S Dimmeler (Frankfurt, DE)

- 08:00 RNA vaccines: an opportunity for cardiovascular diseases?**
U Sahin (Main,DE)
- 08:11 Targeting non-coding RNAs in heart failure.**
T Thum (Hannover,DE)
- 08:22 RNA therapeutics for cardiac regeneration.**
M Giacca (London,GB)
- 08:33 RNA therapeutics: from vaccination to regenerative medicine – discussion.**
R Boon (Frankfurt,DE)

Learning Objectives:

Categories: Live Q&A

Heart failure: a disease of the blood or blood vessels?**Session Number: 151**Chairpersons: D Hilfiker-Kleiner (Hannover, DE)

10:30 Dysfunctional vessels drive heart failure.
S Heymans (Maastricht,NL)

10:41 Somatic mutations that lead to excessive inflammation are drivers of heart failure.
AM Zeiher (Frankfurt,DE)

10:52 T-cells: a driving force of heart failure.
M Kallikourdis (Rozzano,IT)

11:03 Heart failure: a disease of the blood or blood vessels? – discussion.
P Alcaide (Boston,US)

Learning Objectives:

Categories: Live Chat

Myocardial adaptation and maladaptation in failing heart

Session Number: 154

**Joint with the Japanese Circulation Society (JCS) - Young
Community**

Chairpersons: K Onoue (Kashihara, JP) - M Komajda (Paris, FR)

- 10:30 DNA damage leading to heart failure.**
N Seitaro (Tokyo,JP)
- 10:41 The roles of a novel long non coding RNA Caren in failing heart.**
M Sato (Kumamoto,JP)
- 10:52 Inflammation driving maladaptative processes in heart failure.**
K Walsh (California,US)
- 11:03 Myocardial adaptation and maladaptation in failing heart – discussion.**
G Ertl (Wuerzburg,DE)

Learning Objectives:

Categories: Live Chat

Cardiology at an inflection point: where will the future take us?

Session Number: 155

Joint with the International Society for Cardiovascular Translational Research (ISCTR)

Chairpersons: J Bax (Leiden, NL) - A DeMaria (San Diego, US)

- 09:30 Cardiology at an inflection point: introduction to the topic.**
N Dib (Gilbert,US)
- 09:37 Will coronary atherosclerosis be eliminated?**
E Braunwald (Weston,US)
- 09:45 Will interventional cardiology have a role in stable angina?**
P W Serruys (Rotterdam,NL)
- 09:52 Will all valve therapy be percutaneous?**
MB Leon (New York,US)
- 10:00 Will computers interpret all cardiac imaging?**
P Douglas (Durham,US)
- 10:07 Cardiology at an inflection point: where will the future take us? – discussion.**

Learning Objectives:

Categories: Live Chat

Genetic variants and transcriptional regulators in cardiovascular disease

Session Number: 166

Chairpersons: NJ Samani (Leicester, GB) - J Erdmann (Luebeck, DE)

- 09:30 State-of-the-art: from genetic risk factors to therapeutic targets in cardiovascular disease**
H Schunkert (Muenchen,DE)
- 09:45 Genetic variants as determinants of outcome in Lamin A/C-related cardiac disease.**
S Garcia Hernandez (Granada,ES)
- 10:00 Integration of Scandinavian genetic data with UK biobank data implicates the RBM20 gene with atrial fibrillation pathogenesis**
OB Vad (Copenhagen,DK)

Learning Objectives:

Categories: Abstract-Based Programme

Highlights from the Young in basic science

Session Number: 167

Chairpersons: T Minamino (Tokyo, JP) - N Smart (Oxford, GB)

- 07:15 Direct 3D printing of hiPSC-cardiomyocytes in collagen-based bioinks**
TU Esser (Erlangen,DE)
- 07:24 Targeting the methyltransferase setd7 prevents myocardial ischemic injury: a translational study**
S Ambrosini (Schlieren,CH)
- 07:33 Tbx5 navigates through the labyrinth of adult cardiac regeneration**
I Kokkinopoulos (Athens,GR)
- 07:42 Intracellular localization of AMP deaminase and its novel role in BCAA and lipid metabolism in diabetic cardiomyopathy**
O Toshifumi (Sapporo,JP)
- 07:51 Reticulated platelet mass cytometry reveals unexplored therapeutic targets in patients with chronic coronary syndrome**

Learning Objectives:

Categories: Abstract-Based Programme

COVID-19 and basic science

Session Number: 168

Chairpersons: D Westermann (Hamburg, DE)

- 20:15 Erythrocytes induce vascular dysfunction in COVID-19**
A Mahdi (Stockholm,SE)
- 20:24 Novel SARS-CoV-2 variants induce higher toxicity in cardiovascular cells**
J Wagner (- ,DE)
- 20:33 The SARS-CoV-2 Spike protein alters human cardiac pericyte function and interaction with endothelial cells through a non-infective mechanism involving activation of CD147 receptor signalling**
E Avolio (Bristol,GB)
- 20:42 Expressing a truncated SARS-COV-2 spike protein in mouse heart induces cardiac hypertrophy**
Z Lin (- ,US)
- 20:51 The effect of canakinumab on COVID19-associated cardiomyocyte contractile dysfunction and arrhythmias**
S Dimai (Nuremberg,DE)

Learning Objectives:

Categories: Abstract-Based Programme, COVID-19

Novel insights in non-coding RNA functions**Session Number: 169**Chairpersons: C Emanuelli (Bristol, GB) - I Hoefer (Utrecht, NL)

- 07:15 A novel class of small tRNA-like noncoding transcripts arising from the human NEAT1-MALAT1 region critically influences innate immunity and angiogenesis**
- 07:24 The novel ageing-induced long non-coding RNA MIRIAL controls endothelial cell and mitochondrial function**
C Kohnle (Frankfurt Am Main,DE)
- 07:33 The long non-coding RNA Heat4 is upregulated in heart failure and decreases the immune response of non-classical monocytes**
JM Kneuer (- ,DE)
- 07:42 LncRNA Bigheart stimulates Regulator of calcineurin 1 (Rcan1) expression in an auto-amplification loop that stimulates calcineurin-NFAT signalling in heart failure**
- 07:51 Intramyocardial gene transfer of novel unprocessed VEGF-B186R127S isoform induces angiogenesis and increases myocardial perfusion reserve in ischemic porcine heart**
HJ Korpela (Kuopio,FI)

Learning Objectives:

Categories: Abstract-Based Programme

Transcriptomics and metabolomics to decipher cardiovascular disease**Session Number: 170**Chairpersons: J Sluijter (Utrecht, NL) - M Mayr (London, GB)

- 20:15 Transcriptome analysis of conditionally immortalized atrial myocytes: identification of a novel atrium-enriched protein involved in sarcomere assembly and maintenance**
P van Gorp (Leiden,NL)
- 20:24 Integrative single cell RNA-sequencing descrambles a substantial divergence of adaptive immune cell identities and transcriptional programs in mouse and human atherosclerosis**
H Horstmann (Freiburg Im Breisgau,DE)
- 20:33 Functional and transcriptional differences in monocytes from children with obesity compared to children of healthy weight**
S Bekkering (Nijmegen,NL)
- 20:42 Single-cell RNA sequencing of human fetal epicardium reveals novel markers and regulators of EMT**
- 20:51 Mapping the endothelial cell S-Sulfhydrome highlights the crucial role of integrin sulfhydration in vascular function**

Learning Objectives:

Categories: Abstract-Based Programme

Novel insights into arrhythmia mechanisms**Session Number: 171**Chairpersons: S Sossalla (Regensburg, DE) - L Fabritz (Birmingham, GB)

- 20:15 Metabolic treatment of an electrical disease? - Beneficial APD/QT prolongation by L-Carnitine in transgenic SQT1 rabbit models**
- 20:24 A variant noncoding region regulates Prrx1 and predisposes to atrial arrhythmias**
F Bosada (Amsterdam,NL)
- 20:33 Elucidating the role of Cavin1 in drug-induced long QT syndrome (diLQTS)**
Z Al Sayed (- ,FR)
- 20:42 Investigations regarding the role of NOS1AP in the heart using a conditional overexpression mouse model**
M Jaensch (Brandenburg An Der Havel,DE)
- 20:51 Cellular determinants of arrhythmic risk in hypertrophic cardiomyopathy**
L Santini (Florence,IT)

Learning Objectives:

Categories: Abstract-Based Programme

Advances in atherosclerosis research

Session Number: 172

Chairpersons: G Caligiuri (Paris, FR)

- 07:15** **Role of cFOS in mechanosensitive transcriptional regulation in diabetes associated atherosclerosis**
A Khan (Melbourne, SE)
- 07:24** **TAM receptor Axl loss promotes vascular smooth muscle cell phenotypic switching and accelerates experimental atherosclerosis**
- 07:33** **Targeted therapy against atherosclerotic plaques via CD44 mediated ceramide delivery of rosuvastatin**
- 07:42** **Adipose tissue induces trained innate immunity in patients with obesity**
J Van Tuijl (- , NL)
- 07:51** **Deficiency of myeloid prolyl hydroxylase domain proteins aggravates atherogenesis via macrophage apoptosis and paracrine fibrotic signaling**
J Sluimer (Maastricht, NL)

Learning Objectives:

Categories: Abstract-Based Programme

Novel insights into metabolic strategies to treat cardiovascular disease**Session Number: 173**Chairpersons: G Vilahur (Barcelona, ES) - J Wojta (Vienna, AT)

- 07:15 Beiging in perivascular adipose tissue suppresses vascular inflammation: a study in mice and humans**
- 07:24 Proatherogenic gut-microbiome metabolite trimethylamine elicits a gut-liver circuit to regulate TMAO metabolism and Atherosclerosis via mediation of CREBH**
Q Su (- ,GB)
- 07:33 GPNMB protects against obesity-related metabolic disorders by attenuating macrophage-derived inflammation in white adipose tissue through CD44 receptor-dependent mechanism**
A Prabata (- ,JP)
- 07:42 Endothelial-T cell crosstalk contributes to vascular injury in fatty liver disease**
- 07:51 Partial loss of Akap1 promotes cardiac dysfunction, gut barrier dysfunction and alterations of gut microbiota composition during aging**
S D'Apice (- ,IT)

Learning Objectives:

Categories: Abstract-Based Programme

Congress committee e-posters choice in basic science

Session Number: 174

Chairpersons:

S Dimmeler (Frankfurt, DE) - KE Odening (Bern, CH) - J van der Velden (Amsterdam, NL) - T Guzik (Glasgow, GB) - M Abdellatif (Graz, AT)

- 08:00 Pharmacological blockade of histone methyltransferase SETD7 restores angiogenic response in experimental diabetes**
s Mohammed (Zurich,CH)
- 08:00 Activated myofibroblasts promote cardiac hypertrophy and systolic dysfunction independently of cardiac fibrosis in experimental autoimmune myocarditis**
K Tkacz (Cracow,PL)
- 08:00 New insights into the development of radiation-induced cardiac damage using a mouse model**
SM Mrotzek (Haltern Am See,DE)
- 08:00 The m6A methyltransferase METTL3 promotes hypoxic pulmonary arterial hypertension via targeting PTEN**
Y Qin (Nanjing,CN)
- 08:00 Senescent endothelial cells exacerbate pulmonary hypertension through notch-mediated juxtacrine interaction with pulmonary artery smooth muscle cells**
R Ramadhiani (Kobe,JP)
- 08:00 The transcriptional landscape of the clustered protocadherins in the cardiovascular system**
W Zhu (Hong Kong,CN)
- 08:00 Light-controllable recellularized ventricular and atrial tissues**
M Ghiringhelli (- ,IL)
- 08:00 Extracellular vesicles derived from physiologically loaded living myocardial slices improve the contractility of healthy living myocardial slices**
L Nicastro (London,GB)
- 08:00 Massive expansion of human induced pluripotent stem cells resulting in efficient biobanking and functional 3D tissue analysis of genetic cardiomyopathies.**
R Maas (- ,NL)
- 08:00 Molecular effects of cardiac contractility modulation: do we know everything about this?**
- 08:00 Time dependent deterioration of mitochondrial oxidative capacity in heart transplantat recipients with type 2 diabetes mellitus**
C Moos (- ,DE)
- 08:00 Improvement in mitochondrial oxidative phosphorylation of cardiomyocytes derived from human-induced pluripotent stem cells using micropatterned anisotropic substrates**
C Jouve (Paris,FR)
- 08:00 The uptake of trimethylamine N-oxide (TMAO) and its influence on endothelial cell identity and inflammation**
S Rittig (- ,DE)
- 08:00 Mineralocorticoid receptor signaling is implicated in Carfilzomib-induced increase in blood pressure**
P Efentakis (Athens,GR)
- 08:00 Dapagliflozin decreases atherosclerotic plaque instability via regulating macrophage pyroptosis**
L Xu (Shanghai,CN)
- 08:00 Distinct profiles of immune cell populations underlie in-stent restenosis: a cluster analysis approach**

- 08:00** **Endothelial NADPH oxidases protect against sympathetic nervous system hyperactivity-induced cardiac dysfunction and remodeling in mice: contribution of SGLT2**
S Kerth (Munich,DE)
- 08:00** **PCSK9 deficiency rewires heart metabolism and drives heart failure with preserved ejection fraction**
G Norata (Milan,IT)
- 08:00** **The SGLT2 inhibitor ertugliflozin causes a switch of cardiac substrate utilization leading to reduced cardiac mTOR-signaling, unfolded protein response and apoptosis.**
J Moellmann (Aachen,DE)
- 08:00** **Only the NAD precursor nicotinamide riboside maintains cardioprotection under clinically relevant conditions, possibly through activation of glycolysis**
Y Xiao (Amsterdam,NL)
- 08:00** **Lifelong dietary omega-3 fatty acid reverses cardiac and vascular dysfunction via MMP-2 modulation in aged mice**
S Saeedi (Schlieren,CH)
- 08:00** **L-cysteine restores hydrogen sulfide synthesis that leads to inhibition of calcium-induced mitochondrial permeability transition pore opening in old rat hearts.**
- 08:00** **Pericardial adipose tissue-derived leptin promotes myocardial apoptosis in high fat diet-induced obese rats through JAK2/ROS/NKA signaling pathway**

Learning Objectives:

Categories: Abstract-Based Programme

**Great Debate: anticoagulation for stroke prevention in atrial
fibrillation – the grey zone****Session Number: 180**Chairpersons: B Rocca (Rome, IT) - B Lewis (Haifa, IL)

- 08:00** **Anticoagulation should be given to all patients with atrial fibrillation and
CHA2DS2-VASc score of 1: pro.**
GYH Lip (Liverpool,GB)
- 08:15** **Anticoagulation should be given to all patients with atrial fibrillation and
CHA2DS2-VASc score of 1: con.**
A Niessner (Vienna,AT)
- 08:30** **Great Debate: anticoagulation for stroke prevention in atrial fibrillation – the grey
zone – discussion.**
TS Potpara (Belgrade,RS)

Learning Objectives:

Categories: Live Q&A

Meet the Experts: new cardiorenal pharmacotherapy for diabetes

Session Number: 182

Chairpersons: B Zinman (, CA) - A Cahn (, IL)

12:00 Should all diabetic patients be treated with SGLT2 inhibitors?

PJ Grant (Leeds,GB)

12:15 Should all diabetic patients be treated with GLP-1 agonists?

L Mellbin (Bromma,SE)

12:30 Meet the Experts: new cardiorenal pharmacotherapy for diabetes – discussion.

D McGuire (Dallas,US)

Learning Objectives:

Categories: Live Q&A

Challenges of cardiovascular pharmacotherapy in the elderly

Session Number: 183

Chairpersons: JC Kaski (London, GB)

09:30 How to treat hypertension in older individuals: which drugs and which levels of blood pressure?

P Marques-Vidal (Lausanne,CH)

09:41 Antithrombotic therapy for stroke prevention in older people: whom and how to treat?

S Wassmann (Munich,DE)

09:52 Management of diabetes in older people: which drugs and what intensity?

H Drexel (Feldkirch,AT)

10:03 Challenges of cardiovascular pharmacotherapy in the elderly – discussion.

JL Tamargo (Madrid,ES)

Learning Objectives:

Categories: Live Chat

Solutions for typical clinical problems to optimise drug therapy for heart failure**Session Number: 184**Chairpersons: CS Lam (Singapore, SG)

- 10:30 Solutions for a typical problem in the treatment of heart failure: low blood pressure.**
J Januzzi (Boston,US)
- 10:41 Solutions for a typical problem in the treatment of heart failure: kidney dysfunction and hyperkalaemia.**
S Zieroth (Winnipeg,CA)
- 10:52 Solutions for a typical problem in the treatment of heart failure: bradycardia and chronotropic incompetence.**
T McDonagh (London,GB)
- 11:03 Solutions for typical clinical problems to optimise drug therapy for heart failure – discussion.**
K Dickstein (Stavanger,NO)

Learning Objectives:

Categories: Live Chat

CRISPR/Cas9 gene editing for heart disease: ready for prime time?

Session Number: 185

Chairpersons: M Giacca (London, GB)

- 10:30** **Gene editing on its way to the clinics.**
EM McNally (Chicago,US)
- 10:41** **Strategies to promote homology-directed repair in post-mitotic cardiomyocytes.**
Y Sakata (Suita,JP)
- 10:52** **Prime editing without double-strand breaks or donor DNA.**
DR Liu (Boston,US)
- 11:03** **CRISPR/Cas9 gene editing for heart disease: ready for prime time? – discussion.**
A Moretti (- ,DE)

Learning Objectives:

Categories: Live Chat

Optimising heart failure management

Session Number: 187

Chairpersons: CS Lam (Singapore, SG) - K Swedberg (Goteborg, SE)

10:30 How to optimally manage a patient with mildly reduced ejection fraction.
L Lund (Stockholm,SE)

10:45 How to optimally manage a heart failure patient with recovered ejection fraction.
O Amir (Haifa,IL)

11:00 Optimising heart failure management – discussion.
E Jankowska (Wroclaw,PL)

Learning Objectives:

Categories: Live Chat

Cardiac remuscularization: which is the best approach?**Session Number: 188**Chairpersons: T Eschenhagen (Hamburg, DE)**10:30 Stimulation of cardiomyocyte proliferation.**

M Giacca (London,GB)

10:41 Human pluripotent stem cell cardiomyocyte/patch therapy.

H Chaudhry (New York,US)

10:52 Xenotransplantation.

R Hinkel (Goettingen,DE)

11:03 Cardiac remuscularization: which is the best approach? – discussion.

Learning Objectives:

Categories: Live Chat

Enthusiasm vs. evidence for COVID-19 pharmacotherapies: what do we know and what have we learnt?

Joint with the International Society of Cardiovascular Pharmacotherapy (ISCP)

Session Number: 190

Chairpersons: JWC Tan (Singapore, SG) - C Funck-Brentano (Paris, FR)

10:30 Prevention of thromboembolism in COVID-19.

A Martinez-Rubio (Sabadell, ES)

10:41 COVID-19 myocarditis and myocardial injury: active participant or innocent bystander?

GA Dan (Bucharest, RO)

10:52 Anti-inflammatory treatment of COVID-19 patients: which drugs and which patients?

AG Semb (Oslo, NO)

11:03 Enthusiasm vs. evidence for COVID-19 pharmacotherapies: what do we know and what have we learnt? – discussion.

C Ceconi (Desenzano Del Garda, IT)

Learning Objectives: Review of the possible strategies to prevent and to treat cardiac complications in COVID patients as well as prevention of deep vein thrombosis and pulmonary embolism in COVID affected patients.

Categories: COVID-19, Live Chat

Highlights from the Young on cutting edge therapy for lowering lipids

Session Number: 206

Chairpersons: R Redberg (San Francisco, US)

- 20:15 Impact of ACLY on type 2 diabetes in UK Biobank: A Mendelian randomisation study**
A Stiby (Oxford,GB)
- 20:24 Lipid testing trends before and after hospitalization for myocardial infarction among adults in the U.S., 2008-2019**
- 20:33 The prevalence of statin intolerance worldwide: a systematic review and meta-analysis with 4,143,517 patients**
I Bytyci (Prishtina,XK)
- 20:42 Target populations and treatment cost for bempedoic acid and PCSK9 inhibitors: a simulation study in a contemporary CAD cohort**
- 20:51 Acute arterial events across all vascular territories in the FOURIER trial**
K Oyama (Boston,US)

Learning Objectives:

Categories: Abstract-Based Programme

COVID-19 and cardiovascular pharmacotherapy**Session Number: 207**Chairpersons: S Agewall (Oslo, NO) - R Lopes (Durham, US)

20:15 Effect of prophylactic and therapeutic low molecular weight heparins on mortality in 15,704 COVID-19 patients. A systematic review and a meta-analysis.

20:24 Antiplatelet therapy and outcome in patients with COVID-19. Results from a multi-center international prospective registry (HOPE-COVID19).
F Santoro (Bari,IT)

20:33 Early experience utilizing bivalirudin as anticoagulation in extracorporeal membrane oxygen in coronavirus disease 2019
C Jones (- ,US)

20:42 Effect of statins on mortality in patients with COVID-19: an updated meta-analysis of 147824 patients
C Diaz-Arocutipa (Lima,PE)

20:51 Management and impact of atrial fibrillation in the COVID 19 era; concomitancy of two procoagulant phenomena
A Arteagoitia Bolumburu (- ,ES)

Learning Objectives:

Categories: Abstract-Based Programme, COVID-19

**Congress committee e-posters choice in pharmacology and
pharmacotherapy**

Session Number: 208

Chairpersons:

B Rocca (Rome, IT) - T Eschenhagen (Hamburg, DE) - B Lewis (Haifa, IL) - S
Villevalde (Moscow, RU)

- 08:00 Gastrointestinal bleeding risk following concomitant treatment with oral glucocorticoids in patients with atrial fibrillation on direct-acting oral anticoagulants**
A Holt (Copenhagen,DK)
- 08:00 Usage and risk with phosphodiesterase type 5 inhibitors in male patients with chronic ischemic heart disease on oral organic nitrates**
A Holt (Copenhagen,DK)
- 08:00 PCSK9 inhibition with alirocumab decreases plasma lipoprotein(a) concentration by a dual kinetic mechanism of action**
Q Ying (Perth,AU)
- 08:00 Antifibrotic and anti-inflammatory effects of the selective nonsteroidal MR antagonist finerenone in preclinical pulmonary fibrosis**
M Delbeck (Wuppertal,DE)
- 08:00 Aspirin vs. P2Y12 inhibitors with anticoagulation therapy for atrial fibrillation: insights from the AFIRE trial**
H Fukaya (Sagamihara,JP)
- 08:00 Renal decline in patients with atrial fibrillation treated with rivaroxaban or warfarin: a population-based cohort study in the United Kingdom**
- 08:00 Telmisartan for treatment of Covid-19 patients: an open randomized clinical trial.**
LN Nicolosi (Buenos Aires,AR)
- 08:00 Social app to improve warfarin therapy (SMART): a randomized controlled trial**
- 08:00 Effect of genetic polymorphisms and haplotypes on the efficacy and safety of postoperative analgesia with ketoprofen in patients with coronary artery disease after cardiac surgery.**
D Shatskiy (- ,RU)
- 08:00 PCSK9 inhibitors associated hyperglycemic disorders: a real world, pharmacovigilance study**
A Goldman (- ,IL)
- 08:00 Lignocaine versus opioids in coronary intervention: assessing antiplatelet activity and ticagrelor levels (LOCAL) Study**
- 08:00 Sodium-glucose co-transporter-2 inhibitors and the risk of major arrhythmias: a meta-analysis of the cardiovascular and renal outcome trials**
- 08:00 Meta-analysis of cardiovascular outcome trials assessing the impact of glucagon-like peptide-1 receptor agonists on major cardiac arrhythmias**
- 08:00 Influence of cardiovascular drugs on the efficacy and safety of dapagliflozin in patients with type 2 diabetes mellitus in the DECLARE-TIMI 58 trial**
K Oyama (Boston,US)
- 08:00 Cardio-renal protective effects of SGLT2 inhibitors in patients with type 2 diabetes mellitus and severely impaired renal function**
M Kanai (Matsumoto,JP)
- 08:00 Efficacy and safety of dual pathway inhibition in patients with cardiovascular disease**

- 08:00** **Meta-analysis of clinical trials comparing triple versus dual antithrombotic therapy on risk reduction of stent thrombosis after percutaneous coronary intervention in atrial fibrillation patients**
S Shams (- ,GB)
- 08:00** **Net clinical benefit of direct oral anticoagulants in very elderly and high bleeding risk patients with atrial fibrillation who are often excluded from oral anticoagulation therapy: a nationwide popul**
- 08:00** **Potential risks of substituting estimated glomerular filtration rate for estimated creatinine clearance for dosing of direct oral anticoagulants in atrial fibrillation and chronic kidney disease**
J Vaclavik (Olomouc,CZ)

Great Debate: modern medical therapy makes primary prevention ICDs obsolete in patients with HFrEF**Session Number: 220**Chairpersons: B Bozkurt (Houston, US) - C Yancy (Chicago, US)**12:00 Modern medical therapy makes primary prevention ICDs obsolete in patients with HFrEF: pro.**

L Kober (Copenhagen,DK)

12:15 Modern medical therapy makes primary prevention ICDs obsolete in patients with HFrEF: con.

G Hindricks (Leipzig,DE)

12:30 Great Debate: modern medical therapy makes primary prevention ICDs obsolete in patients with HFrEF – discussion.

F Ruschitzka (Zurich,CH)

Learning Objectives:

Categories: Live Q&A

Great Debate: vasodilators no longer have a role in the treatment of acute heart failure**Session Number: 221**Chairpersons: M Metra (Brescia, IT) - N Sato (Saitama, JP)

12:00 Vasodilators no longer have a role in the treatment of acute heart failure: pro.
A Mebazaa (Paris,FR)

12:15 Vasodilators no longer have a role in the treatment of acute heart failure: con.
M Costanzo (Naperville,US)

12:30 Great Debate: vasodilators no longer have a role in the treatment of acute heart failure – discussion.
M Jessup (Hingham,US)

Learning Objectives:

Categories: Live Q&A

Hot off the press: latest updates on new therapeutic approaches to HFrEF**Session Number: 222**Chairpersons: M Boehm (Homburg, DE) - A Voors (Groningen, NL)

- 12:00 New therapies for HFrEF: omecamtiv mecarbil.**
J Teerlink (San Francisco,US)
- 12:11 New therapies for HFrEF: vericiguat.**
B Pieske (Berlin,DE)
- 12:22 New therapies for HFrEF: intravenous iron.**
E Jankowska (Wroclaw,PL)
- 12:33 Hot off the press: latest updates on new therapeutic approaches to HFrEF – discussion.**
A Coats (Warwickshire,GB)

Learning Objectives:

Categories: Live Q&A

Guidelines in Practice: management of a multimorbid patient with HFrEF

Session Number: 223

Chairpersons: CS Lam (Singapore, SG)

- 08:00 Management of a multimorbid patient with HFrEF: case presentation.**
M Cikes (Zagreb,HR)
- 08:15 Management of a multimorbid patient with HFrEF: what do the guidelines say?**
GMC Rosano (London,GB)
- 08:30 Management of a multimorbid patient with HFrEF: how to implement the guidelines and take-home message.**

Learning Objectives:

Categories: Live Q&A

Everything you need to know about SGLT2 inhibitors in heart failure

Session Number: 224

Chairpersons: P Seferovic (Belgrade, RS) - GMC Rosano (London, GB)

- 08:00 Who should be treated with an SGLT2 inhibitor?**
JJV McMurray (Glasgow,GB)
- 08:11 SGLT2 inhibitors in heart failure: do I have to worry about the kidneys?**
K Damman (Groningen,NL)
- 08:22 SGLT2 inhibitors in heart failure: adjusting other treatments and what to tell the patient.**
A Cahn (- ,IL)
- 08:33 Everything you need to know about SGLT2 inhibitors in heart failure – discussion.**
F Zannad (Paris,FR)

Learning Objectives:

Categories: Live Q&A

Remote management of heart failure 2021

Session Number: 225

Chairpersons: M Lainscak (Murska Sobota, SI)

09:30 Remote management of heart failure using implanted devices.
W Abraham (Columbus,US)

09:45 Noninvasive remote management of heart failure.
F Koehler (Berlin,DE)

10:00 Remote management of heart failure 2021 – discussion.
AC Pouleur (Brussels,BE)

Learning Objectives:

Categories: Live Chat

Symposium	Saturday, 28 August 2021	09:30 - 10:15	Heart Failure - Channel
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How-To manage HFpEF: state of the art in 2021

Session Number: 226

Chairpersons: A Voors (Groningen, NL)

- 09:30 HFpEF management: state of the art neurohumoral modulation.**
S Solomon (Boston,US)
- 09:41 HFpEF management: state of the art SGLT2 inhibitors.**
R De Boer (Groningen,NL)
- 09:52 HFpEF management: state of the art novel devices.**
D Kaye (Melbourne,AU)
- 10:03 How-To manage HFpEF: state of the art in 2021 – discussion.**
MM Redfield (Rochester,US)

Learning Objectives:

Categories: Live Chat

Valve interventions for heart failure: state of the art

Session Number: 227

Chairpersons: P Ponikowski (Wroclaw, PL) - R Hahn (New York, US)

- 12:00 Aortic valve interventions for heart failure.**
H Eltchaninoff (Rouen Cedex,FR)
- 12:11 Mitral valve interventions for heart failure.**
J Hausleiter (Muenchen,DE)
- 12:22 Tricuspid valve interventions for heart failure.**
G Nickenig (Bonn,DE)
- 12:33 Valve interventions for heart failure: state of the art – discussion.**
M Borger (Leipzig,DE)

Learning Objectives:

Categories: Live Q&A

Meet the Experts: difficult decisions in advanced heart failure

Session Number: 228

Chairpersons: J Lindenfeld (Nashville, US)

- 09:30 Advanced heart failure: mechanical circulatory support or transplantation?**
F Gustafsson (Copenhagen,DK)
- 09:45 When and how to transition to end of life care in advanced heart failure?**
L Hill (Co.Antrim,GB)
- 10:00 Meet the Experts: difficult decisions in advanced heart failure – discussion.**
D Milicic (Zagreb,HR)

Learning Objectives:

Categories: Live Chat

Atrial fibrillation in heart failure: pharmacological or ablation therapy?**Session Number: 229**Chairpersons: B Moura (Porto, PT) - C O'Connor (Durham, US)

08:00 Atrial fibrillation in heart failure: optimal pharmacological management.
J Nielsen (Aarhus N,DK)

08:15 Atrial fibrillation in heart failure: when to consider ablation therapy (and when it is too late).
K Kuck (Hamburg,DE)

08:30 Atrial fibrillation in heart failure: pharmacological or ablation therapy? – discussion.
G Hindricks (Leipzig,DE)

Learning Objectives:

Categories: Live Q&A

Preventing sudden death in heart failure

Session Number: 230

Chairpersons: G Filippatos (Athens, GR) - L Lund (Stockholm, SE)

08:00 Preventing sudden death in heart failure: pharmacological therapy.
S Priori (Pavia,IT)

08:11 Preventing sudden death in heart failure: ICDs and CRT-D.
C Linde (Stockholm,SE)

08:22 Preventing sudden death in heart failure: what else to do and not to do.
F Zannad (Paris,FR)

08:33 Preventing sudden death in heart failure – discussion.
W Mullens (Genk,BE)

Learning Objectives:

Categories: Live Q&A, Spotlight of the Congress

How should I treat my patient with acute heart failure?

Session Number: 231

Chairpersons: Y Lopatin (Volgograd, RU)

- 09:30 My patient with acute heart failure: case presentation.**
JT Parissis (Athens,GR)
- 09:41 Your patient with acute heart failure: how I would treat.**
X To be announced (X,FR)
- 09:52 My patient with acute heart failure: how I did treat.**
JT Parissis (Athens,GR)
- 10:03 How should I treat my patient with acute heart failure? – discussion.**
O Chioncel (Bucuresti,RO)

Learning Objectives:

Categories: Live Chat

Management of heart failure in special populations

Session Number: 234

Joint with the Cardiological Society of India (CSI)

Chairpersons: S Anker (Berlin, DE) - P Banerjee (Kolkata, IN)

12:00 Management of heart failure in the elderly.
G Arimpur (Thrissur,IN)

12:15 Management of heart failure in women.
C Fonseca (Oeiras,PT)

12:30 Quality improvement in heart failure management.
P Mohanan (Thrissur,IN)

Learning Objectives: Heart failure is the leading cause for hospitalisations world over and maximally occurs in Elderly. Unfortunately there are many issues when it comes to its management in elderly patients as there is a paucity of data.

Categories: Quality improvement programmes in heart failure has shown its effect in improving the GDMT. Will it improves the mortality? What are its role on lower middle income countries?
Live Chat

Diabetes and cardiovascular disease: facing the big challenge ahead

Session Number: 235

Joint with the Mexican Society of Cardiology (MSC)

Chairpersons: M Alcocer Gamba (Queretaro, MX)

08:00 The other pandemic: diabetes and cardiovascular disease in Mexico.
J Leiva (San Luis Potosi,MX)

08:11 Diabetes and heart failure in a major cardiovascular centre.
AB Alvarez Sangabriel (Cd. Mexico,MX)

08:22 How do we beat/treat the diabetes pandemic?
P Seferovic (Belgrade,RS)

08:33 Diabetes and cardiovascular disease: facing the big challenge ahead – discussion.
B Moura (Porto,PT)

Learning Objectives: The goal is to know the epidemiological differences of diabetes mellitus and its consequences in both ischemic heart disease as well as heart failure, as well as its management and prognosis in Mexico.

Categories: Live Chat

Obstructive sleep apnoea (OSA): what the cardiologist must know

Session Number: 236

Joint with the European Respiratory Society (ERS)

Chairpersons: M Humbert (Le Kremlin-Bicetre, FR) - M Piepoli (Piacenza, IT)

09:30 Gender aspects of obstructive sleep apnoea.

MR Bonsignore (Palermo,IT)

09:41 Virtual pathways in obstructive sleep apnoea: COVID and beyond.

A Simonds (London,GB)

09:52 Heart failure phenotype, comorbidity and obstructive sleep apnoea.

O Oldenburg (Muenster,DE)

10:03 Obstructive sleep apnoea (OSA): what the cardiologist must know – discussion.

M Cowie (London,GB)

Learning Objectives: The aim is to alert cardiology team members to new knowledge on the impact of gender on symptomatology, nature of sleep disordered breathing and response to treatment in OSA. As OSA is common in many patients with cardiovascular disease and may contribute to new onset hypertension or poor control of hypertension, the effect of covid-19 on performing diagnostic sleep studies and treatment, and effects of covid-19 in the OSA population, is explored to aid clinical practice.

Categories: Live Chat

Novel approaches to the treatment of heart failure: a summary

Session Number: 237

Joint with the Saudi Heart Association (SHA)

Chairpersons: M Balgaith (Riyadh, SA) - D van Veldhuisen (Groningen, NL)

- 12:00 New drugs for the treatment of heart failure with reduced ejection fraction.**
W Al Habeeb (Riyadh,SA)
- 12:11 New drugs for the treatment of heart failure with preserved ejection fraction.**
M Senni (Bergamo,IT)
- 12:22 Novel nonpharmacological treatment of heart failure.**
A Bakhsh (Riyadh,SA)
- 12:33 Novel approaches to the treatment of heart failure: a summary – discussion.**
E Goncalvesova (Bratislava,SK)

Learning Objectives: To learn how to diagnose and manage heart failure
To update your knowledge about new technique and treatments in HF

Categories: Live Chat

Advances in science in heart failure: what does the new decade hold for ventricular assist devices?

Session Number: 246

Chairpersons: M Crespo-Leiro (La Coruna, ES) - F Gustafsson (Copenhagen, DK)

10:30 State-of-the-art lecture on ventricular assist devices
M Mehra (Boston,US)

10:45 Impact of temporary mechanical circulatory support on mortality in cardiogenic shock: an emulated target trial with a prospective, multicenter, French cohort study.
A Ughetto (- ,FR)

11:00 VAD related infections and the risk of pump thrombosis and thromboembolic events: a EUROMACS study

Learning Objectives:

Categories: Abstract-Based Programme

Highlights from the Young in heart failure

Session Number: 247

Chairpersons: T McDonagh (London, GB) - E Jankowska (Wroclaw, PL)

- 07:15 Machine learning to aid in the diagnosis of acute heart failure in the emergency department**
D Doudesis (Edinburgh,GB)
- 07:24 Implication of sphingolipid metabolism gene dysregulation and cardiac sphingosine-1-phosphate accumulation in heart failure**
- 07:33 Age- and Sex-Specific Rates of Heart Failure and other Adverse Cardiovascular Outcomes in Systemic Sclerosis**
G Sun (- ,DK)
- 07:42 Applying the ESC 2016, the H2FPEF, and the HFA-PEFF diagnostic algorithms for heart failure with preserved ejection fraction to the general population - a comparative approach**
J Nikorowitsch (Hamburg,DE)
- 07:51 New foundational therapy in heart failure with reduced ejection fraction: should we keep following the 2016 European Society of Cardiology Heart Failure Guideline in 2021?**
J Brito (Lisbon,PT)

Learning Objectives:

Categories: Abstract-Based Programme

Consequences of COVID-19 in heart failure: one year on**Session Number: 248**Chairpersons: M Kosiborod (Kansas, US) - M Senni (Bergamo, IT)

- 07:15 The effect of the covid-19 pandemic on heart failure unplanned admission: a single center study**
- 07:24 Outcomes of COVID-19 infection in heart transplant recipients**
D Miklin (- ,US)
- 07:33 Heart failure as a complication of covid-19 infection: systematic review and meta-analysis**
G Rigatelli (Legnago,IT)
- 07:42 Prognostic significance of N-Terminal Pro-BNP in patients with COVID-19 pneumonia without previous history of heart failure**
T Cinar (Istanbul,TR)
- 07:51 Impact of the covid-19 pandemic on the device therapy for patients with the heart failure**
R Hall (Liverpool,GB)

Learning Objectives:

Categories: Abstract-Based Programme, COVID-19

Cutting-edge clinical investigations in heart failure

Session Number: 249

Chairpersons: B Moura (Porto, PT)

- 07:15 Atrial fibrillation impairs dynamic right ventricular-pulmonary artery coupling and increases lung congestion during exercise in heart failure and preserved ejection fraction**
K Omote (Sapporo,JP)
- 07:24 Novel antisense therapy targeting microRNA-132 in patients with heart failure**
- 07:33 Cognitive impairment is a determinant of patient response to disease management programs to reduce readmission in heart failure**
Q Huynh (Melbourne,AU)
- 07:42 Cardiovascular death risk in mid-range ejection fraction heart failure: insights from cardiopulmonary exercise test**
G Gallo (Rome,IT)
- 07:51 Deep learning for mortality prediction in patients with a de-novo or worsened heart failure**
R Herman (Wien,AT)

Learning Objectives:

Categories: Abstract-Based Programme

Novel therapies for heart failure in the early pipeline**Session Number: 250**Chairpersons: T Eschenhagen (Hamburg, DE) - G Gray (Edinburgh, GB)

- 07:15 Low level transcutaneous vagus nerve stimulation reverses cardiac dysfunction and changes left ventricular gene expression in a rat model of heart failure with preserved ejection fraction**
M Niewiadomska (- ,US)
- 07:24 The effect of BNP and sacubitrilat/valsartan on atrial function and arrhythmogenesis: in-vitro assessment in human myocardium**
- 07:33 Ketogenic diet and Beta-Hydroxybutyrate improve cardiac function in heart failure via histone acetylation**
J Gambardella (Naples,IT)
- 07:42 Empagliflozin improves prognosis and energetic properties through modulating mitochondrial function in failing murine hearts**
A Shiraki (- ,JP)
- 07:51 Therapeutic role of Prostaglandin E2 receptor 4 stimulation in inflammatory cardiomyopathy**
T Akira (- ,JP)

Learning Objectives:

Categories: Abstract-Based Programme

Biomarkers to improve prognostication in heart failure: what's new?**Session Number: 251**Chairpersons: A Bayes Genis (Badalona, ES) - E Kato (Tokyo, JP)

- 07:15 Additive prognostic value of cardiac biomarkers in patients with chronic obstructive pulmonary disease and heart failure**
G Vergaro (Pisa,IT)
- 07:24 Urate lowering therapy is associated with a lower risk of heart failure hospitalisation or mortality in hyperuricaemic patients with heart failure: a comparative effectiveness study**
S Kiddle (- ,GB)
- 07:33 Cysteine-rich angiogenic inducer 61 (CCN1) independently predicts all-cause mortality in patients with dilated cardiomyopathy**
R Klingenberg (Bad Nauheim,DE)
- 07:42 Discharge FGF23 levels predicts one year outcome in patients admitted with acute heart failure**
G Vergaro (Pisa,IT)
- 07:51 Endotrophin is significantly associated with disease severity and increased risk of adverse outcome in HFpEF but not in HFrEF patients**
A Reese-Petersen (Herlev,DK)

Learning Objectives:

Categories: Abstract-Based Programme

Diabetes and kidney disease in heart failure: how should we treat the terrible triplets?**Session Number: 252**Chairpersons: J Butler (Atlanta, US) - M Fiuzat (Durham, US)

- 20:15 Clinical outcomes and death associated with cardiorenal syndromes. A comprehensive nationwide cohort study**
L Fauchier (Tours,FR)
- 20:24 Long-term evolution of estimated glomerular filtration rate in heart failure**
C Escabia Riera (Barcelona,ES)
- 20:33 Influence of diabetes, heart failure, and NT-proBNP on cardiovascular outcomes in patients with atrial fibrillation - Insights from a cohort study of 7,412 patients with extended follow-up**
- 20:42 Outcomes of diabetic patients with end-stage heart failure listed for heart transplantation: a propensity-matched analysis**
E Akintoye (- ,US)
- 20:51 Clinical course and related costs of patients with diabetes and heart failure and/or chronic kidney disease, drawn from a sample of more than 7 million people**

Learning Objectives:

Categories: Abstract-Based Programme

Acute heart failure: think long-term outcome!**Session Number: 253**Chairpersons: JPE Lassus (Espoo, FI) - A Sionis (Barcelona, ES)

- 20:15** **Prognostic implications of pulmonary artery catheter monitoring in patients with cardiogenic shock: a systematic review and meta-analysis of observational studies**
- 20:24** **Prognostic significance of different congestion evaluation modalities in acute heart failure patients classified according to left ventricular ejection fraction**
A Palazzuoli (Siena, IT)
- 20:33** **Echocardiographic recovery changes in patients supported with veno-arterial extracorporeal membrane oxygenator and weaning success.**
- 20:42** **Outcomes of extracorporeal membrane oxygenation with or without left ventricular unloading devices in patients with non-myocardial infarction cardiogenic shock.**
- 20:51** **Temporal characteristics of duration of daily activity before and after heart failure hospitalizations in a large real-world population of patients with cardiovascular implanted electronic devices**
S Sarkar (Moundsvue, US)

Learning Objectives:

Categories: Abstract-Based Programme

New frontiers in devices and transplantation

Session Number: 254

Chairpersons: EJ Birks (Louisville, US) - RS Gardner (Linthgow, GB)

- 20:15** **Dynamic optimization of CRT pacing using a novel algorithm improves survival in a real-world cohort of patients**
MR Gold (Charleston,US)
- 20:24** **Quantification of device-related event reports associated with the CardioMEMS Heart Failure System**
- 20:33** **Twenty-year temporal and regional trends in heart transplantation in Europe: results from the Global Observatory on Donation and Transplantation (GODT)**
Y Manla (Abu Dhabi,AE)
- 20:42** **Prediction of outcomes after heart transplantation by machine learning models**
P Kampaktsis (New York,US)
- 20:51** **Changing demographics, temporal trend in waitlist and post-transplant outcomes after heart transplantation in the United States: analysis of unos database 1991-2019**
E Akintoye (- ,US)

Learning Objectives:

Categories: Abstract-Based Programme

Congress committee e-posters choice in heart failure

Session Number: 255

Chairpersons:

JJV McMurray (Glasgow, GB) - CS Lam (Singapore, SG) - R De Boer (Groningen, NL)
- Y Lopatin (Volgograd, RU) - E Jankowska (Wroclaw, PL) - A Mebazaa (Paris, FR) - J
Bauersachs (Hannover, DE)

- 08:00** **Impact of changes in weight and haematocrit on the reduction in systolic office and ambulatory blood pressure with empagliflozin in patients with type 2 diabetes**
- 08:00** **SGLT-2 inhibitors in patients with and without a history of heart failure: a meta-analysis**
- 08:00** **Cardiovascular outcome in patients treated with SGLT2 inhibitors for heart failure: a meta-analysis**
- 08:00** **Reduced tissue sodium content is related to improvement of vascular function in patients with chronic heart failure treated with the SGLT2 inhibitor empagliflozin**
J Kolwelter (Erlangen,DE)
- 08:00** **Efficacy and safety of vericiguat in patients with HFrEF treated with sacubitril/valsartan: results from the VICTORIA trial**
M Senni (Bergamo,IT)
- 08:00** **Empagliflozin reduces TNF α -induced reactive oxygen species through inhibition of the human endothelial Na $^{+}$ /H $^{+}$ exchanger 1**
L Uthman (Amsterdam,NL)
- 08:00** **Empagliflozin in heart failure with preserved ejection fraction: decoding its molecular mechanism of action using artificial intelligence**
O Iborra Egea (Badalona,ES)
- 08:00** **Impact of canagliflozin in natriuretic peptides in patients with type 2 diabetes after hospitalization for acute heart failure.**
E Martin Dorado (Sonseca,ES)
- 08:00** **Sacubitril/Valsartan in heart failure with reduced ejection fraction: clinical and echocardiographic insights from a real world population**
F Valli (Milan,IT)
- 08:00** **Gender differences in reverse cardiac remodeling following initiation of sacubitril/valsartan in heart failure with reduced ejection fraction: real world experience**
P Savage (London,GB)
- 08:00** **Effect of empagliflozin in hfrf patients treated with angiotensin receptor neprilysin inhibitor an analysis of EMPIRE HF**
M Omar (Odense,DK)
- 08:00** **The ADDition of DAPAgliflozin to Angiotensin Receptor Blocker-Neprilysin Inhibitors Non-Responders in Patient with Refractory HFrEF**
P Jariwala (Hyderabad,IN)
- 08:00** **Cardiac reverse remodelling by 2D and 3D echocardiography in heart failure patients treated with sacubitril/valsartan: a prospective study**
V Mantegazza (Milano,IT)
- 08:00** **Rapid pharmacological optimisation with an ARNI (sacubitril/valsartan) in de novo severe LV systolic dysfunction: effects on left ventricular systolic function and time to optimisation of therapy**
B Abdelsalam (Stockton-On-Tees,GB)
- 08:00** **Improving management of heart failure with reduced ejection fraction with sglt2i's using the latest clinical data: an online education intervention**
A Sendaydiego (Louisville,US)

- 08:00** **Improving management of heart failure with reduced ejection fraction with sglt2i's by exploring practical considerations: an online education intervention**
A Sendaydiego (Louisville,US)
- 08:00** **Role of inflammation and comorbidities in the association of heart failure with incident cancer in the HUNT3 cohort**
E Bertero (Wuerzburg,DE)
- 08:00** **Sex-related differences in cardiovascular risk factor accumulation and incident heart failure: data from the PREVEND observational cohort**
J Dronkers (Groningen,NL)
- 08:00** **Prognostic impact of left atrial function in heart failure with preserved ejection fraction in sinus rhythm vs. atrial fibrillation**
R Schoenbauer (Vienna,AT)
- 08:00** **Lung ultrasound in acute heart failure: association between quality of life, symptoms and B-lines**
- 08:00** **Kallistatin/ serpin3c inhibits fibrosis after myocardial infarction by regulating glycolytic pathway**
- 08:00** **Telomere shortening in heart failure due to excess neurohormonal activation is associated with loss of nuclear TRF-2 and increased telomeric DNA damage and predicts cardiac recovery**
M Brandt (Mainz,DE)
- 08:00** **Metformin improves diastolic dysfunction of non-diabetic patients with metabolic syndrome: the MET-DIME randomized trial**
- 08:00** **Features of changes in the level of fibrosis markers in lipotoxic myocardial damage in patients with epicardial obesity**
O Gritsenko (Barnaul,RU)
- 08:00** **Cancer incidence and mortality according to pre-existing heart failure in a community-based cohort**
E Bertero (Wuerzburg,DE)
- 08:00** **Proteomic profiling for detection of early-stage heart failure in the community**
N Cauwenberghs (Leuven,BE)
- 08:00** **Prevalence and time course of arrhythmia-induced cardiomyopathy in patients with newly diagnosed heart failure and concomitant tachyarrhythmia - the TACHY-HF Pilot Trial**
C Schach (Regensburg,DE)
- 08:00** **Heart failure with preserved ejection fraction (HFpEF) pathophysiology study (IDENTIFY-HF): rise in arterial stiffness associates with HFpEF with increase in comorbidities.**
D Ali (Coventry,GB)
- 08:00** **BLITZ-HF study: a nationwide initiative to assess and improve guidelines recommendations adherence in cardiology centers managing patients with acute and chronic heart failure.**
F Orso (Firenze,IT)
- 08:00** **Labile iron derived from autophagy-mediated ferritin degradation in cardiomyocytes under pressure overload increases myocardial oxidative stress and develops heart failure in mice**

S Omiya (London,GB)

- 08:00 The efficacy of using a holistic 4-domain approach in evaluating frailty in ambulatory patient with heart failure**
S Sze (Leicester,GB)
- 08:00 Effects of aerobic physical rehabilitation on muscle fiber metabolism in patients with severe heart failure**
- 08:00 How intravenous iron therapy affects arrhythmia burden and functional status in patients with advanced heart failure and implantable devices**
- 08:00 Hemoglobin, anemia, and clinical outcomes in vericiguat global study in subjects with heart failure with reduced ejection fraction (VICTORIA)**
J Ezekowitz (Edmonton,CA)
- 08:00 Cardiopulmonary exercise testing; do circulatory and ventilatory power predict cardiovascular outcomes in patients with heart failure**
J Borges-Rosa (Coimbra,PT)
- 08:00 Correlation between invasive and non-invasive quantification of myocardial amyloid load in cardiac transthyretin amyloidosis**
M Ungericht (Innsbruck,AT)
- 08:00 Prognostic value of a new systemic inflammation-nutrition index in patients admitted with acute decompensated heart failure; a comparison with malnutrition**
T Yamada (Osaka,JP)
- 08:00 Predictors and prognosis of RV function in pulmonary hypertension due to heart failure with reduced ejection fraction**
A Schmeisser (Magdeburg,DE)
- 08:00 Temporal changes in resting heart rate before and after heart failure decompensation in a large real-world population of patients with reduced ejection fraction**
S Sarkar (Moundsvew,US)
- 08:00 Derivation of an electronic frailty index for short-term mortality in heart failure: a machine learning approach**
- 08:00 Efficacy and feasibility of heart failure nurses to deliver a lungs and inferior vena cava ultrasound assessment (LUICA) protocol and prediction of outcomes.**
- 08:00 Eco color doppler evaluation of renal hemodynamic in the prognosis of acute heart failure**
F Turrini (Modena,IT)
- 08:00 Use of echocardiography and heart failure mortality from registry data in Japan**
Y Okushi (Tokushima,JP)
- 08:00 Right ventricular remodeling and prognostic relevance after ST-segment elevation myocardial infarction in patients treated with primary percutaneous coronary intervention**
S Chimed (Leiden,NL)
- 08:00 Vericiguat and health status outcomes in heart failure with reduced ejection fraction: Insights from the VICTORIA trial**
J Butler (Atlanta,US)
- 08:00 Sodium-glucose co-transporter-2 inhibitors improve cardiovascular outcomes in**

heart failure with reduced ejection fraction regardless of ischemic etiology

- 08:00** **Trends in intra-aortic balloon pump use in cardiogenic shock in the post-SHOCK II trial era**
E Nan Tie (- ,AU)
- 08:00** **Efficacy of intravenous ferric carboxymaltose in patients with acute heart failure and iron deficiency with and without anaemia: a subgroup analysis of AFFIRM-AHF**

Learning Objectives:

Categories: Abstract-Based Programme

Congress committee e-posters choice in cardiovascular nursing and allied professions

Session Number: 256

Chairpersons: F Astin (Huddersfield, GB)

- 08:00** **Validity and utility of the questionnaire-based FRAIL scale in elderly patients with heart failure: findings from the FRAGILE-HF**
K Nozaki (Sagamihara,JP)
- 08:00** **Had percutaneous coronary intervention, now what? searching the internet for health information**
- 08:00** **Cath lab nursing - it's a risky business**
K Wilson-Stewart (Holland Park,AU)
- 08:00** **Effect of a supervised exercise program on overweight and obese adolescents: a quasi-experimental study**
- 08:00** **A telephonic cardiology advice line was effective during the COVID-19 pandemic in both reassuring patients and in ensuring patients received optimal urgent care**
J Devlin (- ,GB)
- 08:00** **Panic attacks in patients with paroxysmal supraventricular tachycardia: difficulties in differential diagnosis and impact on quality of life**

Learning Objectives:

Categories: Abstract-Based Programme

e-posters	Friday, 27 August 2021	08:00 - 20:00	Abstracts and Clinical Cases - On Demand
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Chronic heart failure e-posters

Session Number: 257

Chairpersons:

- 08:00 Intermittent therapy with levosimendan in patients with advanced heart failure**
M Weis (Munich,DE)
- 08:00 Differences in long-term all-cause and cardiovascular mortality according to heart failure aetiology in ambulatory patients**
- 08:00 Comparing the central arterial stiffness indices in the decompensated and compensated states of heart failure: a cohort study**
G Youssef (Cairo,EG)
- 08:00 Opportunities for clinician education in the pharmacotherapy of stable heart failure**
P Murray (Dublin,IE)
- 08:00 Systolic blood pressure visit-to-visit variability and clinical outcomes of heart failure with preserved ejection fraction**
Q Zhang (Beijing,CN)
- 08:00 The risks and benefits of spironolactone use in heart failure with a reduced left ventricular ejection fraction and chronic kidney disease**
- 08:00 Current use of NT-proBNP in elderly patients and the impact of the selected threshold value: lessons from a big data analysis**
C Meune (Bobigny,FR)
- 08:00 The validity of heart failure diagnoses at hospital-discharge and ambulatory evaluation visits: insights from two Norwegian local hospitals**
AP Ofstad (Hosle,NO)
- 08:00 Estimating pVO₂ and prognosis through cardiac exercise stress test in a heart failure population**
JPL De Almeida (Coimbra,PT)
- 08:00 The rs2238296 polymorphism of the mitochondrial DNA polymerase gamma gene and postinfarction left ventricular remodeling in patients with heart failure**
E Kuzheleva (Tomsk,RU)
- 08:00 Total serum protein as an independent predictor of heart failure with preserved ejection fraction in obese pediatric population**
I Schusterova (Kosice,SK)
- 08:00 Sex differences on new-onset heart failure in patients with known or suspected chronic coronary syndrome**
M Lorenzo Hernandez (Valencia,ES)
- 08:00 Lipid profile in cardiac transplantation: a closer look at bad cholesterol**
E Alyaydin (Muenster,DE)
- 08:00 Immunological monitoring in cardiac allograft vasculopathy**
E Alyaydin (Muenster,DE)
- 08:00 The value of GRACE risk score for predicting mortality in heart failure patients admitted with Non ST elevation Acute Coronary Syndrome**
- 08:00 Relationship between venous congestion and systemic hypoperfusion in cardiorenal syndrome**
R Scagliola (Canelli,IT)

- 08:00** **Does raising the BNP threshold improve the diagnostic yield of chronic heart failure in atrial fibrillation and in the elderly?**
S Anpalakhan (Newcastle,GB)
- 08:00** **The role of cytomegalovirus infection in ischemic heart failure progression**
E Grakova (Tomsk,RU)
- 08:00** **BAUN score, a better predictive model of in-hospital and long-term outcomes in acute heart failure?**
J Santos (Castelo Branco,PT)
- 08:00** **AHFM score, a predictive model of in-hospital and long-term mortality in heart failure**
J Santos (Castelo Branco,PT)
- 08:00** **Peritoneal dialysis as a therapeutic solution in elderly patients with cardiorenal syndrome and heart failure: a case-series report**
C Chrysohoou (Athens,GR)
- 08:00** **IV sodium ferric gluconate complex in patients admitted due to acute decompensated heart failure and iron deficiency**
E Marcusohn (Haifa,IL)
- 08:00** **Kidney function derangements during summer in ambulatory heart failure patients**
- 08:00** **Early follow-up in the cardiological day hospital after heart surgery. Impact on hospital readmissions and emergency room visits.**
D Vaqueriza Cubillo (Getafe,ES)
- 08:00** **Pill burden and out-of-pocket medication costs of a contemporary heart failure with reduced ejection fraction cohort**
- 08:00** **The representativeness of VICTORIA and GALACTIC-HF trials in a contemporary cohort of patients with heart failure with reduced ejection fraction**
- 08:00** **The role of left ventricular remodeling in functional mitral regurgitation: functional and prognostic implications in patients with heart failure**
T Sugimoto (Tsu City,JP)
- 08:00** **Peripheral artery disease is associated with adverse outcome among hospitalized patients with decompensated heart failure**
E Itelman (Tel Hashomer,IL)
- 08:00** **Trends, risk factors and mortality of unplanned 30-day readmission after heart transplantation**
P Alvarez (Cleveland,US)
- 08:00** **Trends, risk factors and prognostic implications of postoperative stroke after heart transplantation: an analysis of the UNOS database**
P Alvarez (Cleveland,US)
- 08:00** **Door-to-Furosemide time effects on in-hospital mortality and length of stay in acute heart failure patients**
K Viriyanukulvong (Bangkok,TH)
- 08:00** **First-phase ejection fraction, a measure of pre-clinical heart failure, is strongly associated with increased mortality in patients with COVID-19**
H Gu (London,GB)

- 08:00 Rhythm control in patients with atrial fibrillation and heart failure: a meta-analysis of randomized controlled trials**
SZ Ramos (Quezon City,PH)
- 08:00 Machine learning analysis of metabolomic biomarkers for diagnosis of heart failure**
C Coorey (Moorebank,AU)
- 08:00 Estimation of possible candidates for ivabradine in rural Japan and investigation of their clinical characteristics**
M Saito (Ozu,JP)
- 08:00 Worsening renal function occurring shortly after admission is associated with in-hospital major bleeding in patients with heart failure with preserved ejection fraction**
S Wang (Fuqing, Fuzhou,CN)
- 08:00 Prediction of functional capacity by the HFA-PEFF score in patients with acute decompensated heart failure with preserved ejection fraction: a post-hoc analysis from the PURSUIT-HFpEF registry.**
K Iwakura (Osaka,JP)
- 08:00 Moderate intensity exercise training in heart failure with preserved ejection fraction: functional and structural benefits (The MIET-HFpEF trial)**
A El Amrawy (Alexandria,EG)
- 08:00 The relationship of dehydration and body mass index with the occurrence of atrial fibrillation in heart failure patients.**
A Chuda (Lodz,PL)
- 08:00 Left ventricular end-diastolic pressure predicts in-hospital outcomes in Takotsubo syndrome**
MG Del Buono (Casagiove,IT)
- 08:00 Long term prognostic value of myocardin expression levels in non-ischemic dilated cardiomyopathy**
M Marketou (Heraklio,GR)
- 08:00 Predictive ability of cardiopulmonary exercise test parameters in heart failure patients with cardiac resynchronization therapy**
JP Dias Ferreira Reis (Lisboa,PT)
- 08:00 The surgical management of heart failure: Heart Transplantation in the Era of SARS-CoV-2 Pandemic**
J Malyszczek (Tarnowskie Gory,PL)
- 08:00 Incremental value of hyponatremia to the ADHERE risk tree to predict in-hospital mortality in patients with acute heart failure.**
D Chirino (Buenos Aires,AR)
- 08:00 Walking in a straight line--the early detection of cardiomyopathy by the general physician**
J Ker (Pretoria,ZA)
- 08:00 The significance of the level of triiodothyronium in the diagnosis of the syndrome of "low triiodothyronine" in heart failure**
- 08:00 Hydration status, BMI and troponin as factors of an impaired exercise tolerance in women over 40 with arterial hypertension**
AM Bielecka-Dabrowa (Lodz,PL)

- 08:00 Reverse remodelling criteria to predict cardiovascular death in heart failure with reduced or mid-range ejection fraction**
I Fabiani (Pisa,IT)
- 08:00 Global longitudinal strain predicts clinical disease progression in stable asymptomatic heart failure patients better than left ventricular ejection fraction**
A Marschall (Madrid,ES)
- 08:00 Impact of decreased lymphocyte, total cholesterol, and albumin levels at discharge on all-cause death in patients with acute heart failure**
T Kato (Kyoto,JP)
- 08:00 Clinical significance of spleen size in patients with heart failure**
H Hiraiwa (Nagoya,JP)
- 08:00 Inhibition of CaMKII by KN-93 impaired cardiac angiogenesis and aggravated myocardial remodeling and heart function via regulating NOX2/mtROS/p-VEGFR2 pathway and decreased p-STAT3**
- 08:00 Impact of phosphodiesterase-5 inhibitors on right ventricular function and exercise capacity after left ventricular assist-device implantation: the PIVAD study**
A Jakstaite (Duesseldorf,DE)
- 08:00 Trends in beta-blocker administration and in prevalence of indications for their usage in heart failure with preserved ejection fraction: an analysis of randomized clinical trials**
E Kokhan (Vidnoye,RU)
- 08:00 Heart failure with reduced ejection fraction: predicting exercise intolerance with echocardiography**
- 08:00 Factors associated with the risk of heart failure progression in patients with non-compaction cardiomyopathy**
N Rineiska (Village Kopishche,BY)
- 08:00 Bone-vessels relationships: association between calcifications of the iliac arteries with vertebral fractures in hemodialysis patients - results from the VIKI study**
- 08:00 Self-care behaviours mediate the effect of educational intervention on health-related quality of life of patients with heart failure: causal mediation analysis**
B Hwang (Seoul,KR)
- 08:00 Clinical impact of pulmonary artery to aorta diameter ratio on left ventricular reverse remodeling in patients with dilated cardiomyopathy**
N Shibata (Ogaki,JP)
- 08:00 Low-carbohydrate diets and right ventricular structure and function: The MESA-Right ventricle study**
XD Zhuang (Guangzhou,CN)
- 08:00 Absence of exercise capacity improvement after in-hospital short-term cardiac rehabilitation is associated with long-term clinical outcome in heart failure patients**
T Fukushima (Nagasaki,JP)
- 08:00 Hospitalization and mortality in heart failure with preserved ejection fraction: real-world data from a US integrated healthcare delivery system**
G Nichols (- ,US)

- 08:00** **How predict right ventricular-pulmonary circulation coupling improvement in chronic heart failure.**
E Santiago-Vacas (Badalona,ES)
- 08:00** **Left atrial conduit flow rate at baseline and during exercise: an index of impaired relaxation in patients with heart failure and preserved ejection fraction**
A Degiovanni (Novara,IT)
- 08:00** **Prevalence and characterization of heart failure in a population of integrated care users**
- 08:00** **Predictive value of NT-proBNP in non-obstructive hypertrophic cardiomyopathy**
E Hutt (Cleveland,US)
- 08:00** **Cardiorenal syndrome and death risk in patients with heart failure or chronic kidney disease: an unmet cardiorenal need?**
- 08:00** **Early hospital trainings in patients with left ventricular mechanical support: influence on exercise tolerance and muscle strength.**
E Smolis-Bak (Warsaw,PL)
- 08:00** **Assessment of sexual and physical activity of patients after implantation of left ventricular assist device (LVAD).**
E Smolis-Bak (Warsaw,PL)
- 08:00** **Features of chronic heart failure in covid-19 pandemic**
- 08:00** **Epicardial adipose tissue, cardiovascular hemodynamics and metabolic profile in heart failure with preserved and reduced ejection fraction**
NR Pugliese (Pisa,IT)
- 08:00** **Prognostic significance of epicardial adipose tissue in heart failure with preserved and reduced ejection fraction**
NR Pugliese (Pisa,IT)
- 08:00** **Long-term evolution of estimated glomerular filtration rate in patients with type 2 diabetes and heart failure**
C Escabia Riera (Barcelona,ES)
- 08:00** **Clinical Features and Long-term Prognosis of Patients with Congestive Heart Failure Taking Tolvaptan: A Comparison Between Preserved and Reduced Left Ventricular Ejection Fraction**
- 08:00** **Comparison of prognostic value of liver dysfunction scores in acute decompensated heart failure patients with preserved left ventricular ejection fraction: insights from PURSUIT-HFpEF registry**
- 08:00** **The use of angiotensin receptor blockers is associated with greater recovery of cardiac function than angiotensin-converting-enzyme inhibitors among patients with dilated cardiomyopathy**
N Enzan (Fukuoka,JP)
- 08:00** **Validation of the HFA-PEFF and the H2FPEF scores for the diagnosis of heart failure with preserved ejection fraction in Japanese patients:a report from the Japanese multicentre registry**
A Tada (Sapporo,JP)

- 08:00** **Characteristics and prognosis in heart failure with preserved ejection fraction patients without left ventricular hypertrophy**
Y Nakagawa (Kawanishi,JP)
- 08:00** **Prospective evaluation of donor-derived cell-free DNA as a potential biomarker for cardiac allograft vasculopathy**
M Jimenez-Blanco Bravo (Madrid,ES)
- 08:00** **Risk scores for predicting incident heart failure admission in patients with chronic coronary syndromes: validation in a prospective, monocentric, long-term, cohort study.**
M Ruiz Ortiz (Cordoba,ES)
- 08:00** **Cardiac miRNAs were involved in the regulation of pathophysiological mechanisms underlying HF in pediatric patients after ventricular assist device implantation**
R Ragusa (Pisa,IT)
- 08:00** **Prevalence of heart failure with preserved ejection fraction in antiphospholipid antibodies syndrome. The multicenter ATHERO-APS study.**
D Pastori (Rome,IT)
- 08:00** **Risk factors for early concentric left ventricular remodelling in women and men at risk for heart failure**
AML Van Ommen (Bilthoven,NL)
- 08:00** **Global deterioration of cardiovascular mechanics by carfilzomib treatment is associated with proteasome activity in patients with relapsed multiple myeloma.**
N Makris (Athens,GR)
- 08:00** **Phenotyping the right heart according to left ventricular geometry patterns in severe HFrEF.**
M Casati (- ,IT)
- 08:00** **Impact of high platelet reactivity on left ventricular remodeling in patients with acute coronary syndrome**
M Tsuji (Okayama,JP)
- 08:00** **Trends, predictors and outcomes of need for hemodialysis after heart transplantation**
I Doulamis (Boston,US)
- 08:00** **Examination of the acute efficacy and safety about aggressive use of tolvaptan for early rising after admission in super-elder patients with congestive heart failure.**
T Yamaji (Kanonji,JP)
- 08:00** **Examination about more realistic prognosis evaluation method, how long the patients with congestive heart failure can spend at home**
A Takaishi (Kanonji,JP)
- 08:00** **Patients with transthyretin amyloid cardiomyopathy may have preserved, mildly reduced, or reduced ejection fraction**
P Garcia-Pavia (Madrid,ES)
- 08:00** **A nationwide registry study on heart failure in Norway from 2008-2018: variations in lookback period affect incidence estimates**
KM Odegaard (Oslo,NO)
- 08:00** **Influence of left atrial expansion and decreased interventricular septal wall motion following a weakened atrial kick on brain natriuretic peptide secretion in early-stage heart failure**

- 08:00 Distinct association of VEGF-C and VEGF-D with prognosis in patients with chronic heart failure: the PREHOSP-CHF Study**
M Iguchi (Kyoto,JP)
- 08:00 Predictability of cardiotoxicity at a Belgian cardio-oncology clinic without mandatory physician referral**
J Jacobs (Holsbeek,BE)
- 08:00 Hemodynamic arterial changes in heart failure. a proposed new paradigm of heart and vessels failure. The copernican revolution?**
G Galati (Milan,IT)
- 08:00 Death of a child and the risk of heart failure: a population-based cohort study from Denmark and Sweden**
D Wei (- ,SE)
- 08:00 Analysis of adherence to therapy and compliance of outpatient treatment with the EURO FORTA system in elderly and senile polymorbid patients with CHF**
- 08:00 Impact of right ventricular dysfunction after mitralclip treatment as a bridge to heart transplantation: insights from the MitraBridge registry**
AR Munafo (Pavia,IT)
- 08:00 Prognostic value of sST2 in heart failure patients with diabetes**
V Castiglione (Pisa,IT)
- 08:00 Right ventricular ejection fraction as predictor of outcome in acute heart failure using RV ellipsoid model. A retrospective analysis of a prospective cross-sectional study**
E Ashcroft (Bedford,GB)
- 08:00 Proportionality of tricuspid regurgitation determines outcome in acute heart failure.**
E Ashcroft (Bedford,GB)
- 08:00 The odyssey to dethrone LV ejection fraction continues: the prognostic value of LV global function index in heart failure**
- 08:00 The right ventricle: pairing structural with functional assessment**
- 08:00 In hospital mortality and outcomes of patients with acute decompensated diastolic heart failure with and without amyloidosis**
- 08:00 Non-vitamin K oral anticoagulants versus warfarin for treating left ventricular thrombus**
JSK Chan (Tseung Kwan O,HK)
- 08:00 Impact of idiopathic pulmonary fibrosis on the clinical outcomes of patients admitted for acute decompensated heart failure: an analysis of U.S national inpatient sample**
M Almani (Chicago,US)
- 08:00 Mortality among patients hospitalized with heart failure and type 2 diabetes mellitus, results from United States national inpatient sample 2008 to 2018**
M Almani (Chicago,US)

- 08:00 Heart transplantation and antibody-mediated rejection: role of myocardial strain as an early marker of cardiac dysfunction in patients with anti-HLA antibody**
- 08:00 Development of diagnostic criteria of physical frailty in Japanese patients with heart failure: a multicentre nationwide prospective cohort study (FLAGSHIP)**
- 08:00 Impact of induction therapy on outcomes after heart transplantation**
A Briasoulis (Athens,GR)
- 08:00 Estimating treatment effect of tafamidis on hospitalisation in NYHA class III ATTR-CM patients in the presence of death using principal stratification**
H Li (- ,US)
- 08:00 Hybrid, minimally invasive left ventricular reconstruction compared with conventional surgery for symptomatic ischemic heart failure after acute anterior myocardial infarction.**
E Kaiser (Frankfurt,DE)
- 08:00 Post-processing measurement of left ventricular ejection fraction compared to direct measurement in patients with heart failure with reduced ejection fraction**
N Schwegel (- ,AT)
- 08:00 Association of soluble ST2, M235T polymorphism of ATG with insulin resistance in diabetic patients with heart failure with preserved ejection fraction**
- 08:00 Incidence and predictors of eosinophilic myocardial hypersensitivity in patients receiving home dobutamine**
M Dagan (Flemington,AU)
- 08:00 Alcohol consumption in young men and risk of heart failure and all-cause mortality- a cohort study**
- 08:00 Optimal effectiveness of heart failure management: an umbrella review examining the effectiveness of interventions to reduce (re)hospitalizations in heart failure**
- 08:00 Efficiency of endovascular revascularization in patients with chronic heart failure with reduced left ventricular ejection fraction and diabetes mellitus according to a five-year observation**
A Svarovskaya (Tomsk,RU)
- 08:00 Clinical and prognostic significance of the inflammatory markers GlycA and GlycB in chronic heart failure of both ischemic and non-ischemic etiologies.**
G Cediél Calderon (Badalona,ES)
- 08:00 Resting and exercise hemodynamic determinants of daily activity measured by accelerometer in stable heart failure patients**
M Omar (Odense,DK)
- 08:00 Recurrent heart failure hospitalizations in patients with preserved ejection fraction: predictors and outcome**
- 08:00 Natriuretic peptide referral thresholds and heart failure diagnosis: population-based cohort study**

- 08:00** **Prevalence of and factors associated with undiagnosed stage 3 chronic kidney disease in patient with a history of heart failure: A report from REVEAL-CKD**
- 08:00** **One year outcomes of heart failure multispecialty multidisciplinary team virtual meetings**
H Essa (Liverpool,GB)
- 08:00** **The effect of prolonged Intraaortic ballon pump (IABP) support on right ventricular function in end-stage heart failure**
M Bonios (Athens,GR)
- 08:00** **Does an empowerment-based self-care supportive intervention save cost for improving self-care and health service utilization among heart failure patients**
D Yu (Hong Kong,HK)
- 08:00** **The cardiac amyloidosis clinical pathway implementation: a real world experience**
M Brons (Zwolle,NL)
- 08:00** **Beta-blocker could show the prognostic impact in heart failure patients even on the regular hemodialysis**
M Kishihara (- ,JP)
- 08:00** **The development of a new, simple electrocardiographic method for the estimation of the latest activated left ventricular site**
A Vereckeï (Budapest,HU)
- 08:00** **Low plasma levels of B-type natriuretic peptide predict the insulin resistance and left ventricular concentric remodeling in subjects without heart diseases: the observational arita cohort study**
C Okamoto (Suita,JP)
- 08:00** **Assessing the impact of cardiovascular events on health-related quality of life outcomes in DAPA-HF**
- 08:00** **Right ventricular dysfunction is a predictor of non-response to cardiac resynchronization therapy**
M Neves Pereira (Guimaraes,PT)
- 08:00** **Evaluating the key predictors of health-related quality of life in patients with heart failure and reduced ejection fraction: results from the DAPA-HF trial**
- 08:00** **Protection of bone mineral density in heart failure patients:audit on current clinical practice in a busy tertiary care hospital cardiology department in ireland**
- 08:00** **Impact of right ventricular function and ventriculo-arterial coupling in prognosis after percutaneous edge-to-edge mitral repair**
M Gordillo (La Punta,PE)
- 08:00** **Impact of polypharmacy on prognosis in patients with acute decompensated heart failure: from the CURE-HF registry**
M Kanai (Matsumoto,JP)
- 08:00** **Interleukin-6 and outcomes in patients recently hospitalized with heart failure and preserved ejection fraction**
I Mooney (Glasgow,GB)
- 08:00** **Hyperkalemia as a cause of undertreatment with mineralcorticoid receptor antagonists for patients with newly onset of heart failure with reduced ejection**

fraction

J Henrysson (- ,SE)

- 08:00 The impact of COVID 19 on heart failure hospitalization and management from an Asian perspective**
X Ruan (Singapore,SG)
- 08:00 Cardiac allograft vasculopathy and acute rejection surveillance in the same procedure through a single vascular access. High volume center experience**
C Arellano Serrano (Majadahonda,ES)
- 08:00 Treating patients with advanced heart failure in a community-based multidisciplinary team clinic is associated with significant reduction of healthcare utilization and costs**
J Weinstein (Beer-Sheva,IL)
- 08:00 Concordance between quantitative and semi-quantitative analysis of Tc-99m-pyrophosphate scintigraphy for the diagnosis of transthyretin cardiac amyloidosis in patients with HFpEF**
S Murat (Odunpazari,TR)
- 08:00 Chronic heart failure in intensive care unit: can we accurately predict the risk?**
- 08:00 Area strain predicts clinical course in patients with heart failure with midrange ejection fraction**
- 08:00 Deformation imaging by strain in chronic heart failure over sacubitril/valsartan: a multicenter echocardiographic registry (DISCOVER) ARNI**
- 08:00 Prognostic advantage of optimal medical therapy is not cancelled in hospitalized heart failure patients receiving regular hemodialysis**
T Takada (- ,JP)
- 08:00 Differences in left ventricular twisting and different strains in patients with heart failure with preserved ejection fraction versus patients with arterial hypertension.**
- 08:00 Impact of gastrointestinal hemorrhage on hospital outcomes of patients with hypertrophic cardiomyopathy**
- 08:00 Value of a chest X-ray and CT to diagnose acute heart failure in acute patients with dyspnoea: a prospective comparative diagnostic study in the emergency department**
K Miger (Copenhagen,DK)
- 08:00 Decreasing time on sick leave for patients with heart failure in Sweden during two decades**
S Ekestubbe (Gothenburg,SE)
- 08:00 A concentration-QTc analysis of vericiguat**
- 08:00 Pneumococcal and influenza vaccination coverage of heart failure patients: still a long way to go**
A Maire (- ,FR)
- 08:00 Prediction of major adverse cardiovascular events in heart failure patients using face recognition: rationale and study design of the CARDIOMIRROR trial**

- 08:00 Right bundle branch block and male sex may help predict appropriate ICD therapies in patients with non-ischemic dilated cardiomyopathy and a prophylactic implantable cardioverter defibrillator**
M Amores Luque (Malaga,ES)
- 08:00 Patients with suspected cardiac amyloidosis. Role of endomyocardial biopsy.**
- 08:00 The need and duration of BB therapy in post MI patients with preserved left ventricular ejection fraction: a meta-analysis**
S Abdelmawgoud (- ,EG)
- 08:00 STEMI with mid-range ejection fraction: a group of intermediate risk not to be forgotten**
J Ferreira (Lisbon,PT)
- 08:00 MicroRNA-223 might be a predictive biomarker for major adverse cardiovascular events prognosis in patients undergoing transcatheter aortic valve implantation procedure**
- 08:00 Linking extracellular inhibitors of Wnt/beta-catenin signaling to carotid intima-media thickness in heart failure with reduced ejection fraction**
T Szabo (Targu Mures,RO)
- 08:00 Clinical effects of the enhanced external counterpulsation therapy in patients with ischemic chronic heart failure exacerbation COVID-19**
I Shashenkov (Moscow,RU)
- 08:00 Arterial stiffness in patients with chronic heart failure: the role of visceral obesity**
- 08:00 The monocyte/high-density lipoprotein ratio predicts coronary artery disease in heart failure**
- 08:00 The prognostic value of monocyte/ high-density lipoprotein ratio in chronic heart failure**
- 08:00 Elevated markers of liver function are associated with poorer outcomes in HFREF: an analysis of DAPA-HF**
- 08:00 Prognostic value of relative wall thickness in heart failure with preserved ejection fraction: what is the best method for its calculation?**
M Pires (Viseu,PT)
- 08:00 Targeted delivery controlled release of hepatic growth factor and insulin-like growth factor-1 improves left ventricular repair in a porcine model of myocardial ischemia reperfusion injury**
M Wu (Leuven,BE)
- 08:00 Cardiac rest and stress metabolism in type 2 diabetes (T2D): can the diabetic heart flex under stress?**
L Athithan (Nottingham,GB)
- 08:00 Patterns of pulmonary function and mortality in chronic heart failure, results from the MyoVasc study**

- 08:00 Outcomes of remote pulmonary artery hemodynamic monitoring in heart failure patients with obstructive sleep apnea**
M Oberoi (Sioux Falls,US)
- 08:00 Improvement of exercise tests and reduction of heart failure biomarkers in short term follow up after comprehensive rehabilitation program of patients with implanted LVAD**
- 08:00 Non-sustained ventricular tachycardia on remote patient monitoring in heart failure patients**
- 08:00 Impact of COVID-19 on heart failure hospitalizations: one year after**
R Gonzalez-Manzanares (Cordoba,ES)
- 08:00 Prognostic significance of non-sustained ventricular tachycardia on stored electrograms of heart failure patients with cardiovascular implantable electronic devices**
- 08:00 Serum uric acid is associated with the progression of left ventricular diastolic dysfunction in apparently healthy subjects**
CD Yang (Shanghai,CN)
- 08:00 Impact of kidney disease on left ventricular assisted device outcomes: Insight from National Readmission Database.**
I Shatla (Overland Park,US)
- 08:00 Validation of a novel framework defining the acceptable standard of care for heart failure with reduced ejection fraction**
P Lopes (Lisbon,PT)
- 08:00 Reassessing the NYHA classification for heart failure: a comparison between classes I and II using cardiopulmonary exercise testing**
A Zimerman (- ,BR)
- 08:00 Internal jugular vein ultrasound in patients with chronic congestive heart failure**
P Thacker (Bethlehem,US)
- 08:00 The impact of psychiatric diagnoses on two-year outcomes in patients with ventricular assist devices**
S Tolia (- ,US)
- 08:00 Mortality and long-term outcomes of palliative inotropes in ischemic and non-ischemic cardiomyopathy**
S Tolia (- ,US)
- 08:00 Improving the quality of discharge care plan in the heart failure with reduced ejection fraction (HFrEF) cohort: a quality improvement study**
C Hey (Great Yarmouth,GB)
- 08:00 Increased risk of heart failure is associated with chronic habitual hypohydration that elevates serum sodium above 142 mmol/l suggesting lifelong optimal hydration as preventive measure**
N Dmitrieva (Bethesda,US)
- 08:00 Left ventricular contractile reserve, coronary flow reserve, and heart rate reserve during dipyridamole stress echocardiography predict survival in non-ischemic heart failure**

- 08:00** **Patterns of left ventricular recovery in patients with heart failure with mid-range ejection fraction**
- 08:00** **The role of visceral obesity and insulin resistance in right ventricular function in patients with metabolic syndrome**
E Sedaia (Chisinau,MD)
- 08:00** **Peak atrial longitudinal strain predicts exercise tolerance in heart failure with preserved ejection fraction**
S Sengupta (Nagpur,IN)
- 08:00** **Is heart failure associated with worse outcomes in patients admitted with pneumonia - nationwide analysis**
- 08:00** **Impaired health status is independently associated with persistently elevated NT-proBNP levels despite medical therapy for heart failure with reduced ejection fraction**
T Chaikijurajai (Bangkok,TH)
- 08:00** **Low serum chloride level gives renin-angiotensin system inhibitor a prognostic impact in heart failure patients with preserved ejection fraction**
S Shirotani (Tokyo,JP)
- 08:00** **The efficacy of vericiguat on improving quality of life among patients with heart failure with preserved ejection fraction: a systematic review and meta-analysis**
BM Marino (Manila,PH)
- 08:00** **Chronic ischemic heart failure in humans is associated with changes in expression of antigen processing HLA types and activation of T-cells**
M Merten (Frankfurt Am Main,DE)
- 08:00** **Short and long term outcomes of cardiac amyloidosis patients listed for heart transplantation in the united states: a propensity-matched analysis**
E Akintoye (- ,US)
- 08:00** **Relation of left atrial function with exercise capacity and muscle endurance in patients with heart failure**
T Bekfani (Berlin,DE)
- 08:00** **Third generation continuous flow left ventricular assist devices; a comparative outcome analysis by device type**
M Mihalj (Bern,CH)
- 08:00** **The prognostic value of hypoxia biomarkers in older patients with chronic heart failure**
- 08:00** **Echo-guided LVAD speed optimization for exercise maximization.**
M Stapor (Krakow,PL)
- 08:00** **Kynurenine as a potential biomarker in detecting reduced muscle endurance: Metabolomic profiling of patients with heart failure and exercise intolerance**
T Bekfani (Berlin,DE)
- 08:00** **The value of physiotherapeutic tests next to cardiopulmonary exercise test to assess exercise capacity in left ventricular assist device patients**
- 08:00** **Underlying causes of under-utilization of cardiac resynchronization therapy in real-world heart failure settings**

- 08:00** **Are there predictor variables for the diagnosis of transthyretin cardiac amyloidosis?**
C Goena Vives (San Sebastian,ES)
- 08:00** **Heart failure in low risk patients with atrial fibrillation, nationwide registry case-control study based on 227811 patients**
- 08:00** **Quantifying long-term improvements in exercise capacity after cardiac transplantation**
- 08:00** **Comparison of one-year survival prediction tools in patients with advanced heart failure**
M Blum (- ,DE)
- 08:00** **10-year survival in patients undergoing cardiac resynchronization therapy**
M Mazurek (Zabrze,PL)
- 08:00** **Prevalence of left bundle branch block and CRT treatment in a large regional unselected ECG database**
- 08:00** **Slow flow or prolonged arterial phase in coronary arteries is the cause of ischemia or sudden death in patients with dilated cardiomyopathy**
- 08:00** **Prevalence and outcome of cardiac amyloidosis in an all-comer population of patients with non-ischaemic heart failure**
S Goebel (Mainz,DE)
- 08:00** **Inhalation of peptide-loaded nanoparticles improves cardiac function in pacing-induced heart failure.**
- 08:00** **The role of iron supplementation in reducing all-cause mortality of heart failure patients with iron deficiency: a systematic review and meta-analysis**
R Dewangga (- ,ID)
- 08:00** **Predictors of left ventricular ejection fraction recovery after transcatheter aortic valve replacement (TAVR)**
B Peiro Aventin (Zaragoza,ES)
- 08:00** **Risk stratification and survival in patients with HFmrEF: the role of cardiopulmonary exercise testing**
- 08:00** **Leveraging translational approaches for accelerated clinical development of vericiguat**
- 08:00** **Using group concept mapping software to develop a conceptual framework of left ventricular assist device recipients' experiences**
A Slade (Birmingham,GB)
- 08:00** **Similar incidence of over and underdiagnosis of heart failure in hospitalized patients with type 2 diabetes mellitus**
V Medovchshikov (Moscow,RU)

- 08:00 Differences in clinical characteristics and outcomes in real-world HFpEF patients according to clinical definitions**
- 08:00 Lack of pro-arrhythmic potential for the novel soluble guanylate cyclase stimulator vericiguat: results from preclinical studies**
H Himmel (Wuppertal,DE)
- 08:00 Aetiology and ejection fraction in patients with heart failure and chronic kidney disease**
D Ryan (- ,GB)
- 08:00 Vericiguat: A QTc interval study in patients with coronary artery disease**
M Boettcher (Wuppertal,DE)
- 08:00 In-depth phenotyping by cardiovascular magnetic resonance uncovering differences between ethnic groups in hypertensive heart disease**
A Mohamed (- ,GB)
- 08:00 Updated results of hybrid transcatheter and minimally invasive left ventricular reconstruction for the treatment of ischemic cardiomyopathy**
P Klein (Nieuwegein,NL)
- 08:00 Increased VO2 peak after a structured exercise-training program is associated with reduced levels of cardiac myosin binding protein C in patients with symptomatic chronic heart failure.**
EA Riveland (Stavanger,NO)
- 08:00 Left atrial coupling index versus left atrial function index in heart failure with reduced ejection fraction and iron deficiency**
- 08:00 Statin use is associated with lower risk of new onset dementia in patients with heart failure**
QW Ren (- ,CN)
- 08:00 Glycemic control in diabetes is associated with heart failure with recovered ejection fraction: a prospective study**
- 08:00 The predicting system of prognosis for transthyretin amyloid cardiomyopathy**
N Nakashima (- ,JP)
- 08:00 The Impact of HbA1c level on heart failure with recovered rjection fraction in patients with Type 2 Diabetes**
CD Yang (Shanghai,CN)
- 08:00 Effects of repeated administration of Levosimendan in advanced heart failure in the elderly patient**
F Fiore (Acerra,IT)
- 08:00 Can the need for extracorporeal membrane oxygenation be predicted in patients undergoing heart valve surgery**
- 08:00 Sex related differences and genetic variations associated with circulating galectin -3 in patients with heart failure after first myocardial infarction**
- 08:00 Heart failure re-hospitalization differently affects the following mortality in patients with reduced, mid-range and preserved LVEF**

T Abe (Tokyo,JP)

- 08:00** **Prognostic impact of heart mate risk score among elderly heart failure patients with non-responder for cardiac resynchronization therapy**
A Yoshimura (Tokyo,JP)
- 08:00** **Follow-up on new marker confirming the optimal status in the treatment of heart failure with reduced ejection fraction**

Learning Objectives:

Categories: Abstract-Based Programme

e-posters	Friday, 27 August 2021	08:00 - 20:00	Abstracts and Clinical Cases - On Demand
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Acute heart failure e-posters

Session Number: 258

Chairpersons:

- 08:00 The value of Cystatin C in the diagnosis of cardiorenal syndrome type 1**
Hao Phan (Hcm City,VN)
- 08:00 Value of combined Plasma NGAL, Cystatin C And NT-proBNP in the diagnosis of cardiorenal syndrome type 1**
Hao Phan (Hcm City,VN)
- 08:00 Relationship of early intensive- or coronary care unit admission and post-discharge performance of activities of daily living in patients with acute decompensated heart failure**
M Kanda (Chiba,JP)
- 08:00 Dexamethasone in acute cardiopulmonary syndrome with hyperinflammatory state**
D Cosmi (Perugia,IT)
- 08:00 Natriuretic peptide dynamics with remote pulmonary artery pressure monitoring**
- 08:00 Prognostic value of the combination of pulmonary-systemic pressure ratio and a new systemic inflammation-nutrition index in patients admitted for acute decompensated heart failure**
T Yamada (Osaka,JP)
- 08:00 Long-term prognostic value of the combination of malnutrition and fib-4 index in patients admitted with acute decompensated heart failure**
T Yamada (Osaka,JP)
- 08:00 Prognostic value of simple risk index and plasma volume status in patients with acute decompensated heart failure**
T Yamada (Osaka,JP)
- 08:00 Impact of pulse pressure on clinical outcome in extracorporeal cardiopulmonary resuscitation (eCPR) patients**
- 08:00 Left atrial venous arterial extracorporeal membrane oxygenation for biventricular failure in cardiogenic shock**
M Eng (Detroit,US)
- 08:00 Compression wraps as adjuvant therapy in the management of acute systolic heart failure: a pilot clinical trial**
R Fadel (Detroit,US)
- 08:00 Left ventricular global longitudinal strain as an indicator of myocardial injury in non-hospitalized COVID-19 survivors**
M Hassan Abdelnabi (Alexandria,EG)
- 08:00 Right ventricular dysfunction but not left ventricular ejection fraction is associated with length of stay in acute heart failure**
M Berrill (Chertsey,GB)
- 08:00 Disproportionate mitral regurgitation is associated with survival in acute heart failure with moderate range ejection fraction**
M Berrill (Chertsey,GB)
- 08:00 Acute heart failure in women: phenotypes and outcomes in Mexico. Gender differences?**
- 08:00 Right heart dysfunction and readmission risk across left ventricular ejection fraction status in patients with acute heart failure**

- 08:00 Follistatin-like 3 (FSTL3) levels are increased in acute heart failure patients**
D Chen (Newcastle,AU)
- 08:00 Both short-and long-term treatment with the direct AMP kinase activator PXL770 improves cardiac function in ZSF-1 rats.**
Y Stephan (- ,FR)
- 08:00 Prognostic value of sarcopenia and malnutrition in patients admitted for acute decompensated heart failure with reduced or preserved left ventricular ejection fraction**
S Ito (Osaka,JP)
- 08:00 Enhancing sweat rate using a novel device for the treatment of congestion in heart failure**
- 08:00 Association macrophage subpopulation with cardiac biomarkers in patients with acute decompensated ischemic heart failure with reduced ejection fraction**
E Kruchinkina (Tomsk,RU)
- 08:00 Association between malnutrition status and incident heart failure in community population**
XD Zhuang (Guangzhou,CN)
- 08:00 Impact of cardiac amyloidosis on outcomes of patients hospitalized with heart failure in germany**
S Goebel (Mainz,DE)
- 08:00 Starting Neurohormonal Antagonists in Patients with Acute Heart Failure with Mid-Range and Preserved Ejection Fraction**
Y Seko (Osaka,JP)
- 08:00 "Target Heart Rate" calculated aiming at zero overlap of mitral E and A waves is useful for prediction of long-term outcome for patients with heart failure and reduced ejection fraction**
- 08:00 CA 125 in the diagnosis and risk stratification of acute heart failure**
D Wussler (Basel,CH)
- 08:00 Predictors of one year all-cause death in acute heart failure patients enrolled in the nationwide BLITZ-HF study.**
F Orso (Firenze,IT)
- 08:00 Clinical characteristics, management and outcomes in patients with new onset or worsening acute heart failure enrolled in the nationwide BLITZ-HF study.**
F Orso (Firenze,IT)
- 08:00 Impact of cardiac rhythm abnormality on hospital outcomes of patients with hypertrophic cardiomyopathy**
- 08:00 Frailty phenotypes in patients with heart failure in the early post-discharge period: insights from the iCOR randomised controlled trial and a machine learning-based clustering analysis**
- 08:00 Consequences of adding standardized levosimendan infusion in VA-ECMO weaning protocol.**

- 08:00** **Stroke volume but not ejection fraction predicts prognosis in acute heart failure**
M Barki (Segrate,IT)
- 08:00** **Outcomes and resource utilization in patients with heart failure and type 2 myocardial infarction**
- 08:00** **Peripheral RyR glycation predicts the response to cardiac resynchronization therapy**
J Gambardella (Naples,IT)
- 08:00** **Trends of premature mortality in women due to heart failure in the United States from 2010-2018: insights from Wide-Ranging Online Data for Epidemiologic Research database**
- 08:00** **Increasing premature mortality in males due to heart failure in the United States from 2010-2018: insight from Wide-Ranging Online Data for Epidemiologic Research (WONDER) database**
- 08:00** **Long-term prognosis of tachycardiomyopathy without underlying heart disease**
G Stronati (Agugliano,IT)
- 08:00** **Prognostic value of self-reported subjective exercise capacity in patients with acute dyspnea**
- 08:00** **Safety of endomyocardial biopsy in new-onset acute heart failure requiring veno-arterial extracorporeal membrane oxygenation**
RMA Van Der Boon (Rotterdam,NL)
- 08:00** **Predictors of Acute Heart Failure Decompensation at 30 days After Discharge. Results from a Multidisciplinary Heart Failure unit**
J Gorriz Magana (Getafe,ES)
- 08:00** **Role of myocardial work index in early detection of cardiotoxicity in breast cancer patient**
A Moya (Leuven,BE)
- 08:00** **Sex-related differences in mortality following an admission for acute heart failure across left ventricular ejection fraction spectrum**
- 08:00** **Discordance in prognostic ability between physician assessed NYHA classification and self-reported health status in patients with acute heart failure**
- 08:00** **Association of heart failure readmission with results of lung ultrasound at discharge and follow-up**

Learning Objectives:

Categories: Abstract-Based Programme

Lipoprotein(a): an emerging lipid risk factor

Session Number: 260

Chairpersons: U Landmesser (Berlin, DE)

- 08:00 Lipoprotein(a) and cardiovascular risk.**
B Nordestgaard (Herlev,DK)
- 08:11 Current treatment for elevated lipoprotein(a).**
A Goldberg (Saint Louis,US)
- 08:22 Future treatments for lipoprotein(a).**
SJ Nicholls (Adelaide,AU)
- 08:33 Lipoprotein(a): an emerging lipid risk factor – discussion.**
KK Ray (London,GB)

Learning Objectives:

Categories: Live Q&A

What's next to reduce cardiovascular risk?

Session Number: 261

Chairpersons: J Armitage (Oxford, GB)

09:30 LDL lowering: does it matter how?

J Boren (Goteborg,SE)

09:41 Inflammatory targets in atherosclerosis.

PM Ridker (Boston,US)

09:52 Triglycerides: the underestimated player.

E Stroes (Amsterdam,NL)

10:03 What's next to reduce cardiovascular risk? – discussion.

H Ginsberg (New York,US)

Learning Objectives:

Categories: Live Chat

Great Debate: controversy – do patients benefit from omega-3 fatty acids?**Session Number: 262**Chairpersons: M Back (Stockholm, SE) - U Laufs (Leipzig, DE)

12:00 Patients benefit from omega-3 fatty acids: pro – REDUCE IT data.
C Ballantyne (Houston,US)

12:15 Patients benefit from omega-3 fatty acids: con – STRENGTH data.
AM Lincoff (Cleveland,US)

12:30 Great Debate: controversy – do patients benefit from omega-3 fatty acids? – discussion.
C Packard (Glasgow,GB)

Learning Objectives:

Categories: Live Q&A

Meet the Experts: fuel up! – targeting cardiac energy metabolism in type 2 diabetes and heart failure...

Session Number: 263

Chairpersons: F Amati (Lausanne, CH) - C Maack (Wuerzburg, DE)

- 12:00 Pharmacological interventions: SGLT2 inhibitors in diabetic heart failure.**
C Santos-Gallego (- ,US)
- 12:15 Lifestyle interventions: optimising cardiac energy metabolism by exercise.**
M Snyder (Stanford,US)
- 12:30 Meet the Experts: fuel up! – targeting cardiac energy metabolism in type 2 diabetes and heart failure... – discussion.**
SC Kolwicz Jr (Collegeville,US)

Learning Objectives:

Categories: Live Q&A

**Great Debate: metformin – still first-line therapy in type 2 diabetes
and heart disease?****Session Number: 264**Chairpersons:

MJ Davies (Leicester, GB) - F Cosentino (Stockholm, SE)

08:00 Metformin: the cornerstone of antidiabetic therapy in 2021: pro.**08:15 Metformin: the cornerstone of antidiabetic therapy in 2021: con.**
N Marx (Aachen,DE)**08:30 Great Debate: metformin – still first-line therapy in type 2 diabetes and heart
disease? – discussion.**
C Bailey (Birmingham,GB)

Learning Objectives:

Categories: Live Q&A

Meet the Experts: invasive treatment of hypertension

Session Number: 265

Chairpersons: R Schmieder (Erlangen, DE) - M Schlaich (Perth, AU)

08:00 Renal denervation: mechanisms, methods and evidence.
F Mahfoud (Homburg/Saar,DE)

08:15 The clinical view: when would I consider renal denervation?
I Sudano (Zurich,CH)

08:30 Meet the Experts: invasive treatment of hypertension – discussion.
T Kahan (Stockholm,SE)

Learning Objectives:

Categories: Live Q&A

Meet the Experts: hypertension, atrial fibrillation and dementia

Session Number: 266

Chairpersons: R Lemmens (Leuven, BE)

09:30 Hypertension and risk for dementia: prevention strategies.

09:45 Atrial fibrillation: moving beyond stroke to cognition.

10:00 Meet the Experts: hypertension, atrial fibrillation and dementia – discussion
RM Bruno (Paris,FR)

Learning Objectives:

Categories: Live Chat

Meet the Experts: how to approach the combination of hypertension and atrial fibrillation

Session Number: 267

Chairpersons: T Fredriksson (Stockholm, SE) - G Mancina (Milano, IT)

12:00 Treatment of hypertension in atrial fibrillation.
TS Potpara (Belgrade,RS)

12:15 Treatment of atrial fibrillation in hypertension.
J-E Bager (Goteborg,SE)

12:30 Meet the Experts: how to approach the combination of hypertension and atrial fibrillation – discussion.
GA Dan (Bucharest,RO)

Learning Objectives:

Categories: Live Q&A

Symposium	Friday, 27 August 2021	10:30 - 11:15	Preventive Cardiology, Special Populations - Channel
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Telerehabilitation in cardiology: is it the future?

Session Number: 268

Chairpersons: F Koehler (Berlin, DE)

- 10:30 Telerehabilitation: are there proven effects on clinical outcome?**
E Piotrowicz (Warsaw,PL)
- 10:41 Telerehabilitation during the COVID pandemic: a model for the future?**
R Brouwers (Eindhoven,NL)
- 10:52 Telerehabilitation: will the future last?**
P Dendale (Hasselt,BE)
- 11:03 Telerehabilitation in cardiology: is it the future? – discussion.**
A Poppas (Providence,US)

Learning Objectives:

Categories: Live Chat

Cardiotoxicity of cancer therapy: a clinical update

Session Number: 271

Chairpersons: T Lopez Fernandez (Madrid, ES)

- 09:30 How to estimate risk for cardiotoxicity in clinical practice.**
A Lyon (London,GB)
- 09:41 How to diagnose cardiotoxicity of anticancer treatment.**
JL Zamorano Gomez (Madrid,ES)
- 09:52 How to monitor cardiovascular toxicity of anticancer treatment.**
BA Popescu (Bucharest,RO)
- 10:03 Cardiotoxicity of cancer therapy: a clinical update – discussion.**
T Suter (Bern,CH)

Learning Objectives:

Categories: Live Chat

Meet the Experts: the How-To of exercise prescription in cardiovascular disease

Session Number: 272

Chairpersons: M Halle (Munich, DE) - J Niebauer (Salzburg, AT)

12:00 Exercise prescription in patients with cardiovascular risk factors.
J Hawley (Melbourne,AU)

12:15 Exercise prescription in heart failure.
E Van Craenenbroeck (Edegem,BE)

12:30 Meet the Experts: the How-To of exercise prescription in cardiovascular disease – discussion.
M Haykowsky (Mansfield,US)

Learning Objectives:

Categories: Live Q&A

**Guidelines in Practice: sports participation of athletes with coronary
disease – finding the right balance**

Session Number: 273

Chairpersons: M Wilhelm (Bern, CH) - A Pelliccia (Rome, IT)

- 08:00 A veteran athlete with coronary artery disease: case presentation.**
S Gati (London,GB)
- 08:15 A veteran athlete with coronary artery disease: what do the guidelines say?**
M Borjesson (Vastra Frolunda,SE)
- 08:30 A veteran athlete with coronary artery disease: how to implement the guidelines
and take-home message.**
VL Aengevaeren (Nijmegen,NL)

Learning Objectives:

Categories: Live Q&A

Meet the Experts: endurance training – is it all good news?

Session Number: 274

Chairpersons: K Haugaa (Oslo, NO) - C James (Lutherville Timonium, US)

08:00 Endurance exercise: mostly good but a few concerns.
S Sharma (London,GB)

08:15 Endurance training and heart disease: are there differences between women and men?
L Mont (Barcelona,ES)

08:30 Meet the Experts: endurance training – is it all good news? – discussion.
A La Gerche (Melbourne,AU)

Learning Objectives:

Categories: Live Q&A

Preventing sudden cardiac death in young athletes

Session Number: 275

Chairpersons: K Harmon (Seattle, US) - M Sanz-de la Garza (Barcelona, ES)

12:00 The role of imaging for sudden cardiac death prevention in young athletes.
M Papadakis (London,GB)

12:15 The role of genetics and familial evaluation for young athletes.
S Castelletti (Milan,IT)

12:30 Preventing sudden cardiac death in young athletes – discussion.
D Corrado (Padova,IT)

Learning Objectives:

Categories: Live Q&A, Spotlight of the Congress

Primary prevention in the Asia-Pacific region

Session Number: 276

Joint with the Asian Pacific Society of Cardiology (APSC)

Chairpersons: T Chua (Singapore, SG) - DE Grobbee (Utrecht, NL)

10:30 Risk scores and their applicability in the Asia-Pacific region.
K Nochioka (Sendai,JP)

10:41 Smoking as a modifiable risk factor.
HI Yeh (Taipei,TW)

10:52 Diet and heart disease: differences between Asia and Europe.
A Mente (Hamilton,CA)

11:03 Reducing the cardiovascular burden worldwide – discussion.
D Gaita (Timisoara,RO)

Learning Objectives: Primary Prevention in the Asia Pacific

Categories: Live Chat

Preventing atherosclerotic vascular disease throughout life: the earlier the better

Joint with the European Atherosclerosis Society (EAS)

Session Number: 277

Chairpersons: KK Ray (London, GB) - F Mach (Geneva, CH)

10:30 Preventing risk factors from occurring in early childhood: impact on ASCVD and related diseases.

R Frikke-Schmidt (Copenhagen,DK)

10:41 Prevention in asymptomatic middle age-plus individuals.

S Tokgozoglu (Ankara,TR)

10:52 Optimal medical therapy in chronic coronary syndromes.

U Laufs (Leipzig,DE)

11:03 Preventing atherosclerotic vascular disease throughout life: the earlier the better – discussion.

BA Ference (Cambridge,GB)

Learning Objectives: Health care systems and health care providers need to move from one that treats disease to one which preserves health. From the Global Burden of Diseases studies and the UN 2030 goal statement we know that ASCVD even in low-middle income countries is increasing. In part due to massive increases in obesity, hypertension, type 2 diabetes and dyslipidemias. Unless society and healthcare moves to early interventions including policy, health behaviours and potentially therapies healthcare will be overwhelmed, productivity diminished entering a vicious cycle. This session will provide insights into who to treat, how to treat, the science behind early prevention and the potential benefits of different approaches at different stages of the life course. At the end of the session the attendee will have a comprehensive overview of contemporary thinking and a holistic approach to prevention and earlier changes at individual and population level.

Categories: Live Chat

Important aspects of cardiovascular disease in patients with diabetes

Session Number: 278

Joint with the European Association for the Study of Diabetes (EASD)

Chairpersons: K Lalic (Belgrade, RS) - F Cosentino (Stockholm, SE)

09:30 How can we converge glucocentric and cardiocentric management of diabetes?
A Ceriello (Barcelona,ES)

09:41 Hypoglycaemic events in patients with CVD: what are the causes and implications?
E Standl (Munich,DE)

09:52 Optimal diabetic treatment in patients with type 2 diabetes at very high/high cardiovascular risk.
PJ Grant (Leeds,GB)

10:03 Important aspects of cardiovascular disease in patients with diabetes – discussion.
N Marx (Aachen,DE)

Learning Objectives: The aim is to share with cardiologists two aspects which are relevant to endocrinologists for the management of diabetes, which, at the same time have an important role in the favoring CVD in diabetes.

Categories: Live Chat

Hypertension and sudden cardiac death

Session Number: 279 **Joint with the European Society of Hypertension (ESH)**

Chairpersons: R Kreutz (Berlin, DE) - B Williams (London, GB)

- 10:30 Echocardiographic risk markers of sudden cardiac death.**
E Gerds (Bergen,NO)
- 10:41 Antihypertensive drug classes and risk of sudden cardiac death.**
P Sarafidis (Thessaloniki,GR)
- 10:52 Treatment of common causes for hypertensive emergencies: an update.**
ML Muiesan (Brescia,IT)
- 11:03 Hypertension and sudden cardiac death – discussion.**
T Kahan (Stockholm,SE)

Learning Objectives: Suggest how hypertensive patients at risk for sudden cardiac death can be identified.
 Show how uncontrolled hypertension can be a deadly disease.
 Give an overview on the risk associated with different drug classes and fatal arrhythmias, e.g. diuretics and electrolyte disturbances, beta blockers and arrhythmias, and RAAS blockers and arrhythmia protection.
 Provide an update on the treatment of common causes for hypertensive emergencies.

Categories: Live Chat, Spotlight of the Congress

Influenza, COVID-19, vaccinations, and cardiovascular risk

Session Number: 280

Joint with the Inter-American Society of Cardiology (IASC)

Chairpersons: F Wyss Quintana (Guatemala, GT) - P Juni (Toronto, CA)

- 09:30 Influenza, COVID-19, and the risk of cardiac events.**
F Wyss Quintana (Guatemala,GT)
- 09:41 Vaccination for influenza and prevention of cardiovascular events.**
A Sosa-Liprandi (Buenos Aires,AR)
- 09:52 Vaccination for COVID-19 and cardiovascular risk prevention.**
M Mapelli (Milano,IT)
- 10:03 Influenza, COVID-19, vaccinations, and cardiovascular risk – discussion.**
B Raman (Oxford,GB)

Learning Objectives: Discuss the importance of achieving secondary prevention objectives and the role of respiratory infection immunization as a cardiovascular prevention strategy, particularly focused on the situation in the Americas during the COVID19 pandemic.

Categories: COVID-19, Live Chat

Management of risk factors in the elderly

Session Number: 281

Joint with the Argentine Society of Cardiology (ASC)

Chairpersons: A Hershsen (Buenos Aires, AR) - H Katus (Heidelberg, DE)

- 09:30 Hypertension in the elderly.**
B De La Vega (- ,AR)
- 09:41 Dyslipidaemia in the elderly.**
G Giunta (Buenos Aires,AR)
- 09:52 Diabetes in the elderly cardiac patient.**
L Ryden (Stockholm,SE)
- 10:03 Management of risk factors in the elderly – discussion.**
U Nixdorff (Duesseldorf,DE)

Learning Objectives: Review the management of risk factor control.

Categories: Live Chat

**Primary prevention guidelines: a comparison between the Chinese Society of Cardiology and the European Society of Cardiology
Joint with the Chinese Society of Cardiology (CSC)**

Session Number: 282

Chairpersons: Y Han (Shenyang, CN) - IM Graham (Wicklow, IE)

- 12:00 CSC primary prevention guidelines: key points.**
J Liu (Beijing,CN)
- 12:11 CSC primary prevention guidelines: controversial issues.**
Y Sun (Peking,CN)
- 12:22 ESC primary prevention guidelines: comparisons with the CSC.**
F Visseren (Utrecht,NL)
- 12:33 Primary prevention guidelines: a comparison between the Chinese Society of Cardiology and the European Society of Cardiology – discussion.**
M Halle (Munich,DE)

Learning Objectives: The first primary prevention guideline by CSC has been published in the early 2021. In this Joint session, the key points of the guideline will be discussed, particularly some of the controversy points. The comparison between CSC and ESC guideline will be of most interests for audience.

Categories: Live Chat

Congress committee e-posters choice in hypertension

Session Number: 285

Chairpersons: R Schmieder (Erlangen, DE)

- 08:00 Hypertensive heart disease burden attributable to high salt intake in the United States compared to the European Union and the global status: trends from 1990 to 2019**
Z Aryan (La Jolla,US)
- 08:00 Effect of the renin angiotensin system inhibitors on inflammatory markers: a systematic review and meta-analysis of 32 randomized controlled trials.**
M Banach (Lodz,PL)
- 08:00 Tissue Doppler E prime velocity and E/E prime predict 19-year cardiovascular mortality in hypertension**
A Ratneswaren (London,GB)
- 08:00 "Stiffflammation" in hypertension is a predictor of future cardiovascular hospitalizations**
- 08:00 Arterial stiffness in adolescence predicts elevated blood pressure in young adulthood: The ALSPAC study**
A O Agbaje (Kuopio,FI)
- 08:00 Blood pressure control in the general and high risk populations, longitudinal trends.**
J Bruthans (Praha 4,CZ)

Learning Objectives:

Categories: Abstract-Based Programme

Cardiac biomarkers for atherosclerotic cardiovascular disease risk prediction

Session Number: 286

Chairpersons: W Koenig (Munich, DE)

- 10:30 State-of-the-art lecture on cardiac biomarkers of the future**
BA Ference (Cambridge,GB)
- 10:45 Trajectories of high-sensitivity cardiac troponin I in the two decades before cardiovascular death in whitehall II**
D Kimenai (Edinburgh,GB)
- 11:00 Association of physical signs with genotype, lipid- and inflammation-related markers, coronary stenosis or calcification, and outcomes in patients with heterozygous familial hypercholesterolemia**
M Liu (Beijing,CN)

Learning Objectives:

Categories: Abstract-Based Programme

Diastolic blood pressure: should we care?

Session Number: 287

Chairpersons: A Heagerty (Manchester, GB) - P Verdecchia (Perugia, IT)

09:30 State-of-the-art lecture on diastolic blood pressure: should we care?

F Messerli (Bern,CH)

09:45 Individualizing the target diastolic blood pressure in patients being treated for hypertension and diabetes

10:00 The relationship between diastolic blood pressure and the risk of cardiovascular events in patients with atrial fibrillation whose systolic blood pressure was treated to less than 130 mmHg

Learning Objectives:

Categories: Abstract-Based Programme

Highlights from the Young in risk factors revisited

Session Number: 288

Chairpersons: D Wood (London, GB)

- 20:15 Hypertensive disorders of pregnancy in women with structural heart disease: data from the ESC EORP Registry of Pregnancy and Cardiac disease (ROPAC)**
KP Ramlakhan (Rotterdam,NL)
- 20:24 Prognostic value of the hemodynamic gain index in different groups of patients undergoing cardiopulmonary exercise stress testing**
T Chaikijurajai (Bangkok,TH)
- 20:33 Cardiovascular events in metabolically healthy obese. A nationwide cohort study**
L Fauchier (Tours,FR)
- 20:42 Population genomic screening of all young adults in Australia to detect familial hypercholesterolemia: a cost-effectiveness analysis**
Z Ademi (Melbourne,AU)
- 20:51 Burden of arrhythmias in patients with obstructive sleep apnea and its impact on mortality: a descriptive study from the National Inpatient Sample**
A Gopalakrishnan (- ,US)

Learning Objectives:

Categories: Abstract-Based Programme

Risk factors for outcome in COVID-19

Session Number: 289

Chairpersons: M Pfeffer (Boston, US) - JP Schmid (Barmelweid, CH)

- 20:15 Sars-CoV2- infection as a trigger of humoral response against apolipoprotein a-1**
N Vuilleumier (Geneva 14,CH)
- 20:24 Sarcopenia and its prognostic role on hospital stay and at mortality in COVID 19 patients with at least one cardiovascular risk factor**
MA Erdol (Ankara,TR)
- 20:33 Cardiopulmonary exercise test in patients with persistent dyspnea after covid-19 disease**
J Borrego Rodriguez (Leon,ES)
- 20:42 Obesity and COVID-19 in the octogenarians**
M Scarpone (Cellino Attanasio,IT)
- 20:51 COVID-19 in pregnant women with heart diseases. Adverse maternal and fetal outcomes. Case series from InCor- Registry of Pregnancy and Heart Disease**
M Kirschbaum (Sao Paulo,BR)

Learning Objectives:

Categories: Abstract-Based Programme, COVID-19

Recent advances in diagnosis/treatment of hypertension

Session Number: 291

Chairpersons: A Schutte (Sydney, AU) - S Kjeldsen (Oslo, NO)

- 07:15** **Assessment of visit-to-visit blood pressure variability in adults with optimal blood pressure: a new player in the evaluation of residual cardiovascular risk?**
XD Zhuang (Guangzhou,CN)
- 07:24** **Cardiovascular protection by combination of the selective nonsteroidal MR antagonist finerenone and the SGLT2 inhibitor empagliflozin in a preclinical model of hypertension-induced end-organ damage**
P Kolkhof (Wuppertal,DE)
- 07:33** **Potential therapeutic efficacy via α vB3-integrin dependent interaction of developmental endothelial locus-1 (Del-1) after established angiotensin-II dependent hypertension**
M Amponsah-Offeh (Dresden,DE)
- 07:42** **Protective effects of renal denervation based on MRI assessment of the brain in patients with resistant hypertension**
A Sukhareva (- ,RU)
- 07:51** **24-month results and technical approach of catheter-based renal denervation in patients with resistant hypertension**
D Maximkin (Moscow,RU)

Learning Objectives:

Categories: Abstract-Based Programme

Diabetic metabolism and cardiovascular risk

Session Number: 292

Chairpersons: J Deanfield (, GB)

- 20:15** **Liver steatosis, metabolically healthy obesity and ten-year cardiovascular disease risk: results from a population based cohort study.**
M Kouvari (Athens,GR)
- 20:24** **Neutrophil-to-lymphocyte ratio predicts cardiovascular events in patients with type 2 diabetes: post hoc analysis of SUSTAIN 6 and PIONEER 6**
S Verma (Toronto,CA)
- 20:33** **Impact of diabetes on coronary severity and cardiovascular outcomes in patients with heterozygous familial hypercholesterolemia: an analysis of genotype and phenotype**
M Liu (Beijing,CN)
- 20:42** **Inflammasome activation in epicardial, pericardial and subcutaneous adipose tissue in patients with coronary heart disease**
S Solheim (Oslo,NO)
- 20:51** **High peri-coronary inflammation assessed by coronary CT angiography predicts cardiovascular events in type 2 diabetes mellitus patients**
K Ichikawa (Okayama,JP)

Learning Objectives:

Categories: Abstract-Based Programme

Can we improve outcomes by targeting metabolic risk?

Session Number: 293

Chairpersons: JP Schmid (Barmelweid, CH) - J Perk (Oskarshamn, SE)

- 20:15 Association of statin use in older people primary prevention group with risk of cardiovascular events and mortality: a systematic review and meta-analysis of observational studies.**
M Banach (Lodz,PL)
- 20:24 Mediation analyses of the effect of ertugliflozin on hospitalisation for heart failure in patients with type 2 diabetes and atherosclerotic cardiovascular disease from the VERTIS CV trial**
MW Segar (Dallas,US)
- 20:33 Impact of early initiation of SGLT2 inhibitor on cardiovascular outcomes in diabetic patients with known atherosclerotic cardiovascular disease or risk factors: propensity score matched analysis**
W Sun (Hong Kong,HK)
- 20:42 Changes in EPA and DHA during supplementation with Omega-3 fatty acids and incident cardiovascular events: secondary analysis from the OMEMI trial**
P Myhre (Oslo,NO)
- 20:51 Cardiorenal outcomes with ertugliflozin by baseline metformin use: post-hoc analyses of the VERTIS CV trial**
F Cosentino (Stockholm,SE)

Learning Objectives:

Categories: Abstract-Based Programme

Psychosocial aspects for cardiovascular risk**Session Number: 294**Chairpersons: K Kotseva (London, GB) - M Hollander (Utrecht, NL)

- 07:15 Psychological assessment of depression and anxiety in patients with implantable cardioverter-defibrillator: DEFibrillator-related distress and depression survey in Chiba 2**
Y Kondo (Chiba,JP)
- 07:24 Emotional and cardiovascular health: the impact of depression on cardiac autonomic activity**
- 07:33 Socioeconomic disparity in cardiovascular disease: a proteomic approach**
B Shafi (- ,DK)
- 07:42 Impact of socioeconomic position on coronary artery disease burden in men and women with de-novo symptoms suggestive of chronic coronary syndrome**
- 07:51 Association between short-term pulse pressure variability and cardiovascular death among normotensive adults**
A Visaria (- ,US)

Learning Objectives:

Categories: Abstract-Based Programme

Rehabilitation and sports cardiology

Session Number: 295

Chairpersons: M Papadakis (London, GB) - A La Gerche (Melbourne, AU)

- 07:15 Right Ventricular Assessment of The Adolescent Footballers Heart: Impact of Ethnicity**
S Sivalokanathan (London,GB)
- 07:24 Prevalence and diagnostic yield of investigating t wave inversion in a large unselected pre-participation cohort of young asian males**
WHH Ho (Singapore,SG)
- 07:33 Endurance training increases ventricular refractoriness and wavelength of the cardiac impulse without participation of parasympathetic postganglionic neurons. A study in isolated rabbit heart**
A Rodrigo-Garcia (Valencia,ES)
- 07:42 Effect of exercise training on vascular function and endothelial repair in heart failure with preserved ejection fraction: results from the OptimEx trial**
A Gevaert (Groningen,NL)
- 07:51 Long-term prediction of mortality and comparative treatment benefit following percutaneous or surgical revascularization**
H Hara (Amsterdam,NL)

Learning Objectives:

Categories: Abstract-Based Programme

Autoimmune disorders in cardiac disease**Session Number: 296**Chairpersons: K Stellos (Newcastle Upon Tyne, GB)

- 07:15 Sex-specific difference in cardiac function in patients with systemic sclerosis: association with cardiovascular outcomes**
T Gegenava (Leiden,NL)
- 07:24 Hydroxychloroquine does not increase the risk of cardiac arrhythmia in patients with common autoimmune diseases**
- 07:33 Speckle tracking echocardiography as a promising tool for the prognostic assessment of patients with sarcoidosis**
- 07:42 Endothelial glycocalyx integrity and microvascular perfusion are associated with novel echocardiographic markers and carotid intima-media thickness in patients with psoriasis**
- 07:51 Coronary lesions suggestive of kawasaki disease in young patients presenting with acute myocardial infarction**
F Solis-Jimenez (Mexico,MX)

Learning Objectives:

Categories: Abstract-Based Programme

New insights into cardio-oncology

Session Number: 297

Chairpersons: T Lopez Fernandez (Madrid, ES) - A Cohen-Solal (Paris, FR)

- 07:15 Development of heart failure in long-term survivors of childhood cancer: results from the cvss study**
S Goebel (Mainz,DE)
- 07:24 Rates of cardiovascular events are significantly different across cancer types**
J Mitchell (- ,US)
- 07:33 Risk factors of recurrence in patients with cancer-associated venous thromboembolism: from the COMMAND VTE Registry**
Y Nishimoto (Amagasaki,JP)
- 07:42 Antithrombotic therapy and bleeding complications in patients with atrial fibrillation and active cancer**
- 07:51 Incident cardiovascular events among healthy subjects are associated with increased risk of subsequent cancer diagnosis**
A Fardman (Ramat Gan,IL)

Learning Objectives:

Categories: Abstract-Based Programme

Burning questions for cardiovascular nursing and allied professions**Session Number: 298**Chairpersons: F Astin (Huddersfield, GB)

- 07:15 Does the addition of frailty and disability to EuroSCORE II affect the predictive value of this model for predicting morbidity and mortality in elderly cardiac surgery patients?**
- 07:24 A web-based self-management program to improve lifestyle and blood pressure control in patients with primary hypertension: a randomized controlled trial**
TY Chen (Chiayi,TW)
- 07:33 Value is more than financial and surgical outcomes: Bringing in the patient perspective**
- 07:42 Role of a hospital pharmacist in cardiac day procedure ward: a prospective observational study.**
G Lau (Melbourne,AU)
- 07:51 Perceptions of efficacy and safety of generic medicines in patients after percutaneous coronary intervention**
T Pettersen (Kleppesto,NO)

Learning Objectives:

Categories: Abstract-Based Programme

Congress committee e-posters choice in preventive cardiology and special populations

Session Number: 299

Chairpersons:

M Papadakis (London, GB) - A Konradi (St.Petersburg, RU) - JP Schmid (Barmelweid, CH) - N Kraenkel (Berlin, DE) - U Laufs (Leipzig, DE) - M Halle (Munich, DE)

- 08:00 Masters Athlete Screening Study (MASS): incidence of cardiovascular disease and major adverse cardiac events over five years of screening**
B Morrison (Vancouver,CA)
- 08:00 Cardiopulmonary examinations of athletes returning to high-intensity sport activity following SARS-CoV-2 infection**
O Kiss (Budapest,HU)
- 08:00 The effect of endurance exercise on right ventricular morphology and function in female master athletes.**
- 08:00 Exercise training induces benign right ventricular hypertrophy along with functional improvement and without pathological processes or arrhythmogenicity in a rodent model of athletes heart**
A Olah (Budapest,HU)
- 08:00 Characterisation of ventricular premature beats during exercise testing in masters athletes**
- 08:00 Determinants of high-risk coronary artery disease in ostensibly healthy male master endurance athletes.**
G Parry-Williams (Cardiff,GB)
- 08:00 Association between body mass index and the risk of atrial fibrillation and ischemic stroke according to age: a nationwide population-based cohort study**
- 08:00 Association of daily coffee consumption with cardiovascular health - Results from the UK Biobank**
J Simon (Budapest,HU)
- 08:00 Risk stratification model for telemedicine-based cardiac rehabilitation.**
H Ilarraz-Lomeli (Mexico City,MX)
- 08:00 Dairy intake and risk of major cardiovascular events: a prospective cohort study of 0.5 million Chinese adults**
- 08:00 Prevalence of metabolic syndrome in the United States National Health and Nutrition Examination Survey (nhanes) 2011-2018**
- 08:00 The real-world cost and health resource utilization associated to the CNIC-polypill compared to usual care**
A Cordero (Alicante,ES)
- 08:00 The impact of physical activity on arterial stiffness and inflammation; results from the "Corinthia" study**
P Theofilis (Vari,GR)
- 08:00 Prognostic impact of achieving LDL cholesterol guidelines-recommended target in secondary prevention: a real-world study**
M Casula (Iglesias,IT)
- 08:00 Organizational and patient-level predictors for reaching key risk factor targets in cardiac rehabilitation after myocardial infarction - the perfect-CR study**
H Ogmundsdottir Michelsen (Helsingborg,SE)
- 08:00 Very long-term benefits of cardiac rehabilitation on mortality and cardiovascular events after percutaneous coronary intervention.**

- 08:00** **A randomized clinical study evaluating effects of high-intensity interval training on myocardial microvascular dysfunction**
- 08:00** **Predictors of long-term survival in patients undergoing residential cardiac rehabilitation (rCR) after transcatheter aortic valve replacement (TAVR): a multicenter retrospective study**
F Tarro Genta (Turin,IT)
- 08:00** **Long-term benefits of cardiac rehabilitation after incomplete percutaneous revascularization**
C Otte Alba (Sevilla,ES)
- 08:00** **Impaired endothelial glycocalyx predicts adverse outcome in subjects without overt cardiovascular disease: a 6 year follow up study**
- 08:00** **Altered circulating microRNA profiles after endurance training: an ultramarathon runner cohort study**
- 08:00** **IL6 trans-signalling is associated with a higher risk of cardiovascular events in individuals with diabetes**
L Ziegler (Stockholm,SE)
- 08:00** **The combination of a neprilysin inhibitor (sacubitril) and angiotensin-II receptor blocker (valsartan) improves ejection fraction and longitudinal strain in mice treated with doxorubicin through NLRP3**
N Maurea (Naples,IT)
- 08:00** **Longitudinal impacts of greenness on cardiovascular disease conditions**
W Aitken (Biscayne Park,US)
- 08:00** **Cardiovascular morbidity and mortality related to non-alcoholic fatty liver disease: a systematic review and meta-analysis of prospective studies**
G Bisaccia (Chieti,IT)
- 08:00** **Associations between saturated fatty acids from different dietary sources and cardiovascular disease risk in 114,285 UK Biobank study participants**
R Kelly (Hobart,GB)
- 08:00** **External validation of prediction models for obstructive coronary artery disease in patients with suspected stable coronary artery disease**
L Bjerking (Chopenhagen,DK)
- 08:00** **Prevalence, genotype and phenotype of familial hypercholesterolemia in 10,194 Finnish men**
L Korhonen (Kuopio,FI)
- 08:00** **Treatment of high- and very high-risk patients for the prevention of cardiovascular events in Europe: baseline demographics from the multinational observational SANTORINI study**
KK Ray (London,GB)
- 08:00** **Assessing the clinical utility of a genetic risk score associated with type 2 diabetes in a southern European population**
- 08:00** **Modifiable lifetime risk for recurrent major cardiovascular events: observations in a contemporary pooled cohort**

- 08:00** **Effects of canagliflozin on hyperkalaemia and serum potassium in people with diabetes and chronic kidney disease: Insights from the CREDENCE trial**
B Neuen (Sydney,AU)
- 08:00** **Training- and sex related alterations of global feature-tracking strain values of highly trained athletes using cardiac magnetic resonance imaging**
L Szabo (Budapest,HU)
- 08:00** **Out-of-hospital cardiac arrest and ambient air pollution: a dose-effect relationship and a predictive role in OHCA risk.**
F Gentile (Rieti,IT)
- 08:00** **The associations of serum homoarginine to long-term prognosis in patients with chronic coronary syndrome and non-obstructive coronary artery disease**
SK Storesund (Bergen,NO)
- 08:00** **Cardiovascular benefits outweigh risks in patients with atrial fibrillation in REDUCE-IT (Reduction of Cardiovascular Events with Icosapent Ethyl-Intervention Trial)**
B Olshansky (Iowa,US)
- 08:00** **Prediction ability for new-onset hypertension by machine learning model using medical examination data**
S Kawasoe (Kagoshima,JP)
- 08:00** **Yield from family screening in a national adolescent cardiac screening program**
M Abela (Naxxar,MT)
- 08:00** **Impact of cumulative exposure to LDL cholesterol on cardiovascular events in patients with familial hypercholesterolemia**
H Tada (Kanazawa,JP)

Learning Objectives:

Categories: Abstract-Based Programme

Great Debate: is left ventricular dyssynchrony in imaging relevant for the selection of patients for cardiac resynchronization therapy?**Session Number: 300**Chairpersons: J Bergler-Klein (Vienna, AT) - O Smiseth (Oslo, NO)**08:00 Left ventricular dyssynchrony in imaging is important to select patients for cardiac resynchronization therapy: pro.**

N Ajmone Marsan (Leiden,NL)

08:15 Left ventricular dyssynchrony in imaging is important to select patients for cardiac resynchronization therapy: con.

W Mullens (Genk,BE)

08:30 Great Debate: is left ventricular dyssynchrony in imaging relevant for the selection of patients for cardiac resynchronization therapy? – discussion.

JU Voigt (Leuven,BE)

Learning Objectives:

Categories: Live Q&A

Echocardiography: doing it right in 2021 and beyond

Session Number: 303

Chairpersons: V Delgado (Leiden, NL) - E Donal (Rennes, FR)

- 12:00 Why speckle tracking should be routine in echocardiography.**
T Marwick (Melbourne,AU)
- 12:11 New echocardiographic approaches to measure diastolic function.**
JU Voigt (Leuven,BE)
- 12:22 Artificial intelligence in the echo lab.**
PP Sengupta (Morgantown,US)
- 12:33 Echocardiography: doing it right in 2021 and beyond – discussion.**
R Jurcut (Bucharest,RO)

Learning Objectives:

Categories: Live Q&A

New frontiers in cardiovascular computed tomography**Session Number: 304**Chairpersons: R Blankstein (Boston, US)

- 09:30 Cardiac computed tomography: the one-stop shop for coronary anatomy and ischaemia.**
K Nieman (Stanford,US)
- 09:41 Advanced plaque analysis using coronary CT angiography: how, when and why?**
P Maurovich-Horvat (Budapest,HU)
- 09:52 Vascular inflammation and cardiovascular risk assessment using coronary CT angiography.**
C Antoniades (Oxford,GB)
- 10:03 New frontiers in cardiovascular computed tomography – discussion.**
D Dey (Los Angeles,US)

Learning Objectives:

Categories: Live Chat

Meet the Experts: computed tomography evaluation prior to transcatheter aortic valve implantation

Session Number: 305

Chairpersons: WG Weigold (Washington, US) - T Rudolph (Bad Oeynhausen, DE)

- 08:00 Challenging aortic root anatomies in CT: a case-based presentation.**
J Leipsic (Vancouver, Bc,CA)
- 08:15 Challenging vascular access: transfemoral and alternative access routes and the role of CT imaging.**
H Jilaihawi (- ,US)
- 08:30 Meet the Experts: computed tomography evaluation prior to transcatheter aortic valve implantation – discussion.**
M Marwan (Erlangen,DE)

Learning Objectives:

Categories: Live Q&A

Nuts and bolts of using cardiac CT in preventive cardiology**Session Number: 306**Chairpersons: R Rubinshtein (Holon, IL)

- 10:30** **When to use coronary artery calcium testing or coronary CTA in primary prevention.**
M Blaha (Baltimore,US)
- 10:41** **Use of coronary calcium imaging to enhance the efficiency of cardiovascular outcome trials.**
B Lopez Melgar (Madrid,ES)
- 10:52** **Patient management following CT angiography (result communication, shared decision-making, lifestyle therapies, medical therapies).**
M Ferencik (Portland,US)
- 11:03** **Nuts and bolts of using cardiac CT in preventive cardiology – discussion.**
M Bittencourt (Sao Paulo,BR)

Learning Objectives:

Categories: Live Chat

What is the role of cardiac magnetic resonance for risk stratification in cardiomyopathies?**Session Number: 307**Chairpersons: R Nijveldt (Nijmegen, NL)

- 10:30 The role of cardiac magnetic resonance in hypertrophic cardiomyopathies.**
J Rodriguez Palomares (Barcelona,ES)
- 10:41 The role of cardiac magnetic resonance in dilated cardiomyopathies.**
C Bucciarelli-Ducci (Bristol,GB)
- 10:52 The role of cardiac magnetic resonance in ischaemic heart disease.**
R Kwong (Boston,US)
- 11:03 What is the role of cardiac magnetic resonance for risk stratification in cardiomyopathies? – discussion.**
J Bax (Leiden,NL)

Learning Objectives:

Categories: Live Chat

Meet the Experts: 4D flow cardiac magnetic resonance in clinical practice**Session Number: 308**Chairpersons: AMG Almeida (Lisbon, PT) - SG Myerson (Oxford, GB)**08:00 4D flow cardiac magnetic resonance in clinical practice: evaluation of valvular heart disease.**

P Garg (Sheffield,GB)

08:15 4D flow cardiac magnetic resonance in clinical practice: evaluation of congenital heart disease.

G Greil (Dallas,US)

08:30 Meet the Experts: 4D flow cardiac magnetic resonance in clinical practice – discussion.

MM Bissell (Leeds,GB)

Learning Objectives:

Categories: Live Q&A

Meet the Experts: cardiac magnetic resonance perfusion imaging

Session Number: 309

Chairpersons: S Raman (Indianapolis, US) - R Nijveldt (Nijmegen, NL)

08:00 Stress perfusion MR: tips, tricks and pitfalls.
J Garot (Massy,FR)

08:15 Stress perfusion MR: do we need quantification?
E Nagel (Frankfurt,DE)

08:30 Meet the Experts: cardiac magnetic resonance perfusion imaging – discussion.
A Chiribiri (London,GB)

Learning Objectives:

Categories: Live Q&A

Multimodality cardiac imaging to solve challenging diagnostic questions**Session Number: 310**Chairpersons: P Chareonthaitawee (Rochester, US)

- 09:30 Cardiac imaging in sarcoidosis.**
D Birnie (Ottawa,CA)
- 09:41 Endocarditis: when to choose which imaging technique (or which combination).**
C Graeni (Bern,CH)
- 09:52 Imaging to detect and characterise cardiac amyloidosis.**
S Dorbala (Boston,US)
- 10:03 Multimodality cardiac imaging to solve challenging diagnostic questions – discussion.**
PA Erba (Pisa,IT)

Learning Objectives:

Categories: Live Chat

Great Debate: post-ISCHEMIA and SCOT-HEART – anatomy is all we need for risk stratification and treatment**Session Number: 312**Chairpersons: L Shaw (New York, US) - D Neglia (Pisa, IT)

12:00 Anatomy is all we need for risk stratification and treatment: pro.
M Dweck (Edinburgh,GB)

12:15 Anatomy is all we need for risk stratification and treatment: con.
A Gimelli (Pisa,IT)

12:30 Great Debate: post-ISCHEMIA and SCOT-HEART – anatomy is all we need for risk stratification and treatment – discussion.
R Buechel (Zurich,CH)

Learning Objectives:

Categories: Live Q&A

Guidelines in Practice: working up acute chest pain – imaging in a patient with a nondiagnostic ECG

Session Number: 313

Chairpersons: J Knuuti (Turku, FI) - B Cosyns (Brussels, BE)

- 12:00 A patient with NSTEMI and a nondiagnostic ECG: case presentation.**
S Halvorsen (Oslo,NO)
- 12:15 A patient with NSTEMI and a nondiagnostic ECG: what do the guidelines say?**
C Berry (Glasgow,GB)
- 12:30 A patient with NSTEMI and a nondiagnostic ECG: how to implement the guidelines and take-home message.**
MF Di Carli (Boston,US)

Learning Objectives:

Categories: Live Q&A

When echocardiography is not enough: multimodality imaging to the rescue**Session Number: 314**Chairpersons: L Sade (Ankara, TR) - M Sitges (Barcelona, ES)

- 12:00 Multimodality imaging to determine the source of cardiac embolism.**
A Cohen (Paris Cedex 12,FR)
- 12:11 Multimodality imaging to quantify mitral regurgitation.**
J Bax (Leiden,NL)
- 12:22 Multimodality imaging to quantify low-flow low-gradient aortic stenosis.**
- 12:33 When echocardiography is not enough: multimodality imaging to the rescue – discussion.**
N Ajmone Marsan (Leiden,NL)

Learning Objectives:

Categories: Live Q&A

e-posters	Friday, 27 August 2021	08:00 - 20:00	Abstracts and Clinical Cases - On Demand
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Cardiovascular nursing and allied professions e-posters

Session Number: 315

Chairpersons:

- 08:00 Christmas holiday triggers of myocardial infarction**
A Olsson (Lund,SE)
- 08:00 Geriatric assessment in elderly patients receiving oral anticoagulants: results of the nursing study**
- 08:00 Patients with heart failure education: the effectiveness of interventions**
R Paleckiene (Kaunas,LT)
- 08:00 Uncontrolled diabetes predicts anxiety and depression in CAD patients**
I Bytyci (Prishtina,XK)
- 08:00 Obesity predicts anxiety and depression in HFpEF patients**
K Rrustemi (Prishtina,XK)
- 08:00 The greek version of the professional quality of life (ProQoL) scale version 5**
I Lakatamitou (Nicosia,CY)
- 08:00 The needs of older persons undergoing heart surgery: unveiling a nursing intervention through focus groups**
S Nicola Martins Rodrigues (Vila Nova De Gaia,PT)
- 08:00 Linking salt preference to enjoyment of low sodium diet in patients with heart failure**
ML Chung (Lexington,US)
- 08:00 Barriers to cardiac rehabilitation: a first national survey**
R Farah (Brussels,BE)
- 08:00 Factors related to hospital readmission of patients with acute coronary syndrome: a prospective cohort study**
- 08:00 Efficacy of mindfulness-based cognitive therapy on symptoms of depression and anxiety in patients with coronary artery disease: insights from a prospective registry**
- 08:00 The use of ECG by triage nurses may improve the stratification of patients with cardiological symptoms admitted to the emergency department: a prospective observational study.**
A Zaboli (Merano,IT)
- 08:00 Can triage correctly stratify cardiogenic syncope in patients admitted to the emergency department for a transitory loss of consciousness?**
A Zaboli (Merano,IT)
- 08:00 The relationship between comorbidities and physical activity and kinesiophobia of patients with heart rhythm disorders in covid-19 pandemic**
D Saklica (Ankara,TR)
- 08:00 Proband and family member disease penetrance in cardiac genetic secondary findings**
- 08:00 Developing a multi-disciplinary program for routine acetylcholine vasoreactivity testing in the cardiac catheterization laboratory**
- 08:00 Supportive care reinforces telemonitoring in heart failure patients: pilot results of**

the "SupportHeart".

- 08:00** **Postoperative respiratory complications affect improvement of postoperative respiratory muscle strength in patients undergoing cardiac surgery**
T Nishinakagawa (- ,JP)
- 08:00** **Analysis of telephone demand in a heart failure unit: something more than a simple call**
M Luna (Malaga,ES)
- 08:00** **The influence of drug therapy for obstructive sleep apnoea on couple life. Qualitative study grounded theory**

Learning Objectives:

Categories: Abstract-Based Programme

Basic science e-posters

Session Number: 316

Chairpersons:

- 08:00 Monounsaturated fatty acid antagonizes saturated fatty acid-induced cardiomyopathy via improving membrane fatty acid composition and endoplasmic reticulum stress**
T Yamamoto (- ,JP)
- 08:00 MicroRNA let-7a, -7e and -133a attenuate hypoxia-induced atrial fibrosis via targeting collagen expression and the JNK pathway in HL1 cardiomyocytes**
- 08:00 Acute administration of the olive constituent, oleuropein, combined with post-conditioning mechanism exerts cardioprotective effects by modulating oxidative defense**
I Andreadou (Athens,GR)
- 08:00 Coronary artery cavitation as a trigger for atherosclerotic plaque progression: a numerical and computational fluid dynamic demonstration**
G Rigatelli (Legnago,IT)
- 08:00 Melatonin receptor blockade slows ventricular conduction by IK1 downregulation**
- 08:00 HMGB1 mediates coronary dysfunction by inducing Kv1.5 translocation in vascular smooth muscle cells of diabetic rats**
W Su (Beijing,CN)
- 08:00 STING inhibition in myocardial remodelling following myocardial infarction**
L Rech (Graz,AT)
- 08:00 Lung comets ultrasound and prediction of one year mortality and chronic ischemic heart failure**
F Menzou (Blida,DZ)
- 08:00 The effects, and importance of lipid panel parameters on lipoprotein (a): a cross-sectional cardiometabolic risk assessment**
SO Amusat (Birnin-Kebbi,NG)
- 08:00 Efficacy and safety of direct oral anticoagulants in morbidly obese patients with non-valvular atrial fibrillation: a systematic review and meta-analysis**
M Mhanna (Toledo,US)
- 08:00 Progression markers of coronary calcification**
V Kashtalap (Kemerovo,RU)
- 08:00 Vitamin D binding protein as a potential biomarker for heart failure in myocarditis: translational animal model reveals mechanism**
- 08:00 Sex differences in cardio-oncology: utilizing a genetic variant as a therapeutic target doxorubicin-induced cardiomyopathy**
K Bruno (St Augustine,US)
- 08:00 Quercetin enhances the efficacy of telmisartan in myocardial ischaemia/reperfusion injury in rats**
- 08:00 Effect of the rs9939609 FTO gene polymorphism on the choice of the metabolic oxidation substrate in patients with arterial hypertension and obesity.**
I Lapik (Moscow,RU)
- 08:00 The correlation of anti-heart antibodies levels with clinical manifestations and outcomes in patients with COVID-19.**

- 08:00 Associations of the ITGB3 gene rs5918T>C and the APOA1 gene rs1799837C>T markers with serum lipid metabolism in coronary artery disease patients**
C Conkbayir (Nicosia (North),CY)
- 08:00 Effects of chronic exposure to usual and high doses of Bisphenol A on cardiac arrhythmias, electrophysiology, and autonomic modulation**
A Scridon (Santana De Mures,RO)
- 08:00 Meta-analysis assessing cardiovascular outcomes with febuxostat versus allopurinol for patients with gout**
- 08:00 Altered spatio-specific CaMKII activation in autophagy deficient mice**
J Voglhuber (Graz,AT)
- 08:00 two types of humoral response in acute myocardial infraction**
E Konstantinova (Moscow,RU)
- 08:00 Association between NPC1L1 and HMGCR gene polymorphisms with residual cholesterol risk in patients with premature triple-vessel disease**
- 08:00 Prostaglandin E1 attenuates AngII-induced cardiac hypertrophy via EP3 receptor activation and Netrin-1upregulation**
- 08:00 Pulmonary artery radiofrequency ablation in an acute porcine model of pulmonary arterial hypertension**
N Goncharova (Saint Petersburg,RU)
- 08:00 Autophagy-related gene 5 (Atg5) is required for maintaining subcellular calcium homeostasis during acute cardiac stress**
N Djalinac (Graz,AT)
- 08:00 Muscle stretching induces twitch contractions without activation of stretch-activated channels in intact rat trabeculae**
W Satoh (Sendai,JP)
- 08:00 Metabolic reprogramming in pulmonary arterial hypertension: is it a cancer-like disease?**
C Ferreira (Coimbra,PT)
- 08:00 MicroRNA-126 mimic administration accelerates vascular perfusion recovery and angiogenesis in a hind limb ischemia model**
P Theofilis (Vari,GR)
- 08:00 Finerenone reduces renal RORgt gd T-Cells and protects against cardiorenal damage**
- 08:00 Kynurenic acid- a key metabolite protecting the heart from an ischemic damage**
M Entin-Meer (Holon,IL)
- 08:00 Growth differentiation factor-15 and plasminogen activator inhibitor-1 are possible predictors of cardiovascular events in atrial fibrillation patients after elective PCI**
E Krivosheeva (Moscow,RU)
- 08:00 Binding of gamma-glutamyl transferase to TLR-4 allows the activation of tissue factor expression in human monocytes**

- 08:00 Specialized pro-resolving mediators prevents cardiac dysfunction by modulating Ca²⁺ handling and NRF2 axis**
A Val-Blasco (Chatenay-Malabry,FR)
- 08:00 Inhibition of RAS components attenuates progression of heart failure and its adverse consequences on myocardial remodeling in both normotensive and hypertensive rats**
M Sykora (Bratislava,SK)
- 08:00 Cardiac hypertrophy as a response to volume overload in normotension and hypertension, and possible cardioprotection with angiotensin (1-7)**
M Sykora (Bratislava,SK)
- 08:00 The influence of metabolic activity of platelets on sensitivity to Acetylsalicylic acid in patients with coronary heart disease**
A Kosinova (Krasnoyarsk,RU)
- 08:00 Autoantibodies directed against apolipoprotein-a-1 as a potential contributor to non-alcoholic fatty liver disease**
S Pagano (Geneva,CH)
- 08:00 URAT1-selective inhibition ameliorates insulin resistance by attenuating diet-induced hepatic steatosis and BAT whitening in mice**
Y Tanaka (Tokyo,JP)
- 08:00 Myocardial infarction versus COVID-19 blood secretome**
V Sadykov (- ,RU)
- 08:00 Renocardiac protective effects of SGLT2 inhibitor combined with angiotensin receptor blocker in salt sensitive Dahl rats**
H Ito (Tsu,JP)
- 08:00 Empagliflozin significantly prevents QTc prolongation due to Amitriptyline intoxication via intracellular calcium regulation**
V Baris (Ankara,TR)
- 08:00 Epigenetic regulation of oxidative and inflammatory phenotypes in women with gestational diabetes and offspring**
N Di Pietrantonio (Chieti,IT)
- 08:00 A rare nonsense variant of the X-gene in a paediatric patient with severe peripheral pulmonary stenosis**
A Chida-Nagai (Sapporo,JP)
- 08:00 Tubulin-folding cofactor E deficiency is associated with vascular dysfunction and endoplasmatic reticulum stress of vascular smooth muscle cells**
P Efentakis (Athens,GR)
- 08:00 The novel proteomic signature for the detection of cardiac allograft vasculopathy**
D Wei (Leuven,BE)
- 08:00 The urinary proteomic profile of arterial stiffness in the general population**
D Wei (Leuven,BE)
- 08:00 The endothelial-enriched lncRNA LINC01235 regulates hypoxia response via HIF-3a**
AT Gimbel (Frankfurt Am Main,DE)
- 08:00 Qualitative and quantitative proteomic approach of epicardial cell secretome from**

atrial fibrillation patients after cholinergic stimulation

M Couselo Seijas (Santiago De Compostela,ES)

- 08:00 Acetyl-CoA carboxylase inhibition alters tubulin acetylation and aggregation in thrombin-stimulated platelets**
M Octave (Bruxelles,BE)
- 08:00 Platelet-specific deletion of acetyl-CoA carboxylase 1 decreases phospholipid content and impairs platelet functions**
M Octave (Bruxelles,BE)
- 08:00 Multi-species transcriptomic data analysis reveal three candidate genes, responsible for the transition from compensated left ventricle hypertrophy to heart failure**
M Abreu (- ,PT)
- 08:00 Telomerase and myocardin co-expressing mesenchymal cells increase survival and induce cardiac and vascular markers in cardiac stromal cells undergoing simulated ischemia/reperfusion**
R Madonna (Pisa,IT)
- 08:00 Sex-related differential susceptibility to ponatinib-induced cardiotoxicity and its relationship to modulation of Notch signaling in a murine model**
R Madonna (Pisa,IT)
- 08:00 Improvement of outcome prediction of hospitalized patients with COVID-19 by a dual marker strategy using high-sensitive cardiac troponin I and copeptin**
- 08:00 The role of obesity in structural and functional characteristics of left cardiac chambers.**
- 08:00 Not-high before-treatment platelet reactivity in patients with STEMI:prevalence, clinical characteristics, response to therapy and outcomes**
ME Canonico (Napoli,IT)
- 08:00 Lymphocytes telomere length and left ventricle heart functional state in emergency workers of Chernobyl accident who survived myocardial infarction**
D Belyi (Kiev,UA)
- 08:00 Role of the glycemic level on in the functional state of the myocardium in patients with coronary heart disease and type 2 diabetes mellitus**
- 08:00 Ventricular arrhythmia susceptibility in a new porcine model of heart failure (HF) with reduced ejection fraction.**
- 08:00 Activation of GPER limits adverse changes to Ca²⁺ signalling and arrhythmogenic activity in cardiomyocytes of ovariectomised guinea pigs**
- 08:00 Beta-blocker/ACE inhibitor therapy differentially impacts the steady state signaling landscape of failing and non-failing hearts**
A Sorrentino (Copenhagen,DK)
- 08:00 Increased NaV1.8 expression in patients with sleep-disordered breathing induces pro-arrhythmic activity**
S Lebek (Regensburg,DE)
- 08:00 Role of S100A4 in atherosclerosis development**

- 08:00** **Fall in the ATP levels in the red blood cells in ApoE-LDLR double-deficient mice model prior to atherosclerosis development**
FC Alcicek (Cracow,PL)
- 08:00** **Time and frequency domain analysis of long-term heart rate variability in an experimental model of diet-induced metabolic syndrome**
WM Lozano (Valencia,ES)
- 08:00** **Role of platelet GARP in TGFB activation**
J Bodart (- ,BE)
- 08:00** **Combination of immune microenvironment reconstruction and regeneration therapy by exploiting neutrophil-like nanoparticles improves heart repair post ischemic injury**
Q Wang (Shanghai,CN)
- 08:00** **Extracellular vesicles (EVs)-transmitted long noncoding RNA GAS5 is dysregulated in patient with coronary artery disease (CAD) and regulates recipient endothelial cell function**
- 08:00** **Zfhx3 decreases expression of cardiac Nav1.5 channels and inhibits sodium current.**
R Caballero (Madrid,ES)
- 08:00** **Role of QRS amplitude, fractionation and duration in predicting clinical response to anti-inflammatory treatment in cardiac sarcoidosis**
M Arceluz (Madrid,ES)
- 08:00** **Exosome engineering for targeted regulation on angiogenesis and inflammation in injured myocardium using platelet membrane fusion**
QY LI (Shanghai,CN)
- 08:00** **Assessment of heart rate variability and tone of the autonomic nervous system in puberty-aged children with undifferentiated connective tissue dysplasia**
O V Sidorovich (Saratov,RU)
- 08:00** **Fibroblast growth factor (FGF23) levels in dialysis patients correlate with supraventricular arrhythmias**
- 08:00** **Endotoxemia and cardiometabolic biomarkers in patients with acute myocardial infarction. Data from the RICO survey**
- 08:00** **Adipose-targeted overexpression of mitochondrial-targeted catalase does not improve cardio-metabolic parameters in mice with diet-induced obesity**
A Croft (- ,AU)
- 08:00** **Tofogliflozin improved pulmonary hypertension due to heart failure with preserved ejection fraction in mice**
- 08:00** **Sacubitril/valsartan ameliorates doxorubicin-induced cardiomyocyte toxicity through inhibiting oxidative stress in rats**
T Miyoshi (Okayama,JP)
- 08:00** **Genesis of epicardial adipocytes and its association with progenitor markers, muscarinic receptor type 3 and b-blockers intake in patients with cardiovascular disease**
X Fu (- ,ES)

- 08:00 Biological markers of endothelial dysfunction and fibrosis, macro- and microcirculation alterations in patients with obstructive and nonobstructive coronary artery disease and diabetes mellitus.**
A Iusupova (Moscow,RU)
- 08:00 MMP-2 gene silencing attenuates age-dependent carotid stiffness via reduction of elastin degradation and increased eNOS activation**
YM Puspitasari (Schlieren,CH)
- 08:00 TET2 modulates proliferation and migration of vascular smooth muscle cells via LEMD2/NOX1/NOX4 signaling pathway**
- 08:00 NADPH oxidase 4 has a crucial impact on the microcirculation of hypercholesteremic LDL receptor deficient mice**
P Diaba-Nuhoho (Dresden,DE)
- 08:00 Sodium glucose co-transporter 2 inhibitors ameliorate endothelium barrier dysfunction induced by cyclic stretch through inhibition of reactive oxygen species**
X Li (- ,NL)
- 08:00 Mid-term endothelial dysfunction post COVID-19**
S Lampsas (- ,GR)
- 08:00 Increase of serum Cyclophilin C levels in the follow-up of coronary artery disease: a biomarker and possible clinical predictor**
- 08:00 No direct involvement of Phactr-1 in non-atherosclerotic arteriopathies : results from 3 different Phactr-1 transgenic knockout mice**
S Rubin (Bordeaux,FR)
- 08:00 C0-C1f region of cardiac myosin binding protein-C induces pro-inflammatory responses in fibroblasts**
C Lipps (Giessen,DE)
- 08:00 Structural and molecular markers of aging heart: Sechenov university classification**
O Blagova (Moscow,RU)
- 08:00 Extracellular vesicles (EVs)-transmitted long noncoding RNA GAS5 is dysregulated in patient with coronary arterydisease (CAD) and regulates recipient endothelial cell function**
Dr Hosen (Bonn,DE)
- 08:00 Reduced RNA editing in the failing human heart mediates alternative circular RNA splicing**
K Kokot (Leipzig,DE)
- 08:00 Enhancement of engineered cardiac tissues by promotion of hiPSC-cardiomyocyte proliferation**
R Hesselbarth (Erlangen,DE)
- 08:00 Quantitative and qualitative composition of the innate immune response are equally important in wound healing after myocardial infarction**
J Wrobel (- ,DE)
- 08:00 3D organotypic culture of large mammal epicardial slices reveals abundant progenitor pool with migratory and reparative potential**

- 08:00 Cardiomyogenesis in adult mammals is not based on dedifferentiation and division of mature cardiomyocytes**
- 08:00 Gene and protein expression profiles of selected molecular targets mediating electrophysiological function in pgc-1-alpha deficient murine ventricles**
K Saadeh (- ,GB)
- 08:00 Parathyroid hormone affects right heart hemodynamics and exacerbates pulmonary hypertension.**
Y Joki (- ,JP)
- 08:00 Expression and roles of N-type Ca channel in cardiaomyocytes**
M Kobara (Kyoto,JP)
- 08:00 Development of a human heart-on-a-chip model using induced pluripotent stem cells, fibroblasts and endothelial cells**
Y Liu (Okayama,CN)
- 08:00 The role of cellular senescence in aortic dissection**
E Nakao (Kurume,JP)
- 08:00 Tissue factor cytoplasmic domain exacerbates post-infarct left ventricular remodeling via orchestrating cardiac inflammation and angiogenesis**
JW Wang (Singapore,SG)
- 08:00 SIRT1 protects the heart against doxorubicin-induced cardiotoxicity by mediating the DNA damage response via deacetylation of histone H2AX.**
A Kuno (Sapporo,JP)
- 08:00 The role of alpha1 AMP-activated protein kinase in haemostatic dysfunctions induced by sepsis.**
- 08:00 Chondroitin sulfate n-acetylgalactosaminyltransferase-2 (ChGn-2) plays a significant role in cardiac remodeling and heart failure following pressure overload**
A Haryono (- ,JP)
- 08:00 Increased CaMKII-dependent pro-arrhythmic activity in a novel mouse model of obstructive sleep apnoea**
B Schaner (- ,DE)
- 08:00 Is the TCF21 gene protection or risk for coronary artery disease?**
- 08:00 A multivariate analysis identifies genetic loci associated with atherosclerotic plaque composition and cardiovascular disease trajectory**
- 08:00 Comparative study on the cardioprotective effects against ischemia/reperfusion injury of the selective SGLT2 inhibitors, empagliflozin, dapagliflozin and ertugliflozin in non-diabetic mice**
N Mylonas (Athens,GR)
- 08:00 Modeling ischemic heart disease: Only matured human iPS-derived cardiomyocytes are sensitive to ischemic injury**
M Peters (Utrecht,NL)
- 08:00 Is HNF4A gene, a risk factor or protection against coronary artery disease?**

- 08:00 Genetic predisposition in pediatric acute myocarditis: a pilot study**
P Gourzi (- ,GR)
- 08:00 Induction of RAGE-NFkB signalling axis enhances SHP-2 tyrosine phosphatase expression resulting in deviant activation of diabetic monocytes**
M Dorenkamp (- ,DE)
- 08:00 A genetic risk score predicts recurrent events after myocardial infarction in young patients with a low level of traditional risk factors**
- 08:00 Neutrophil PAD4 negatively influences cardiac function and remodeling with increasing age**
S Van Bruggen (Leuven,BE)
- 08:00 Differences in extent of mechano-induced QT-changes in SQTS, WT and LQTS rabbit models**
S Nimani (- ,CH)
- 08:00 Crucial role of extra-domain A containing fibronectin for the development of pulmonary hypertension and associated right heart failure**
I Singerer (- ,DE)
- 08:00 High-density lipoprotein lipid peroxidation in association with presence of coronary artery disease and atrial fibrillation in a large cross-sectional study**
N Pagonas (Brandenburg,DE)
- 08:00 Transcriptional profiles of genes related to electrophysiological function in scn5a+/- murine hearts**
K Saadeh (- ,GB)
- 08:00 IL-8 promotes the calcification of human aortic valve interstitial cells, which is prevented through antagonizing CXCR1 and CXCR2 receptors.**
K Dhayni (Amiens,FR)
- 08:00 Untargeted metabolomics towards understanding molecular mechanisms of pulmonary arterial hypertension**
R Wawrzyniak (- ,PL)
- 08:00 Clinical and morphological characteristics of COVID-19-associated myocarditis**
O Blagova (Moscow,RU)
- 08:00 Epicardial adipose tissue-derived leptin induce MMPs/TIMPs imbalance and promotes myocardial remodeling in high fat diet-induced obese rats**
L Liu (Xi'an,CN)
- 08:00 Endothelial progenitor cells modulate the phenotype of smooth muscle cells and increase their neointimal accumulation following vascular injury**
- 08:00 Overexpression of genes involved in lymphocyte activation and regulation are associated with reduced CRM-derived cardiac remodelling after STEMI**
- 08:00 Antisenescence in vitro potency of extracellular vesicles secreted by cardiosphere-derived cells predicts the antihypertrophic effect in a rat model of cardiac ageing**
L Gomez-Cid (Fuenlabrada,ES)
- 08:00 The relationship between epigenetic age and myocardial infarction /acute coronary syndrome and in a population based nested case-control study**

- 08:00 Blockade of the innate immune checkpoint CD47 decreases infarct size by modulation of oxidative stress and immune response**
S Korste (Essen,DE)
- 08:00 Extracellular vesicles secreted by human cardiosphere-derived cells attenuate electrophysiological remodelling in an in vitro model of atrial fibrillation**
L Gomez-Cid (Fuenlabrada,ES)
- 08:00 The importance of metabolic balance in the cardiac response to stress**
M Sorge (Torino,IT)
- 08:00 Prospective analysis of inflammatory response markers, endothelial dysfunction and hemostasis parameters in COVID-19 associated pneumonia patients with and without type 2 diabetes mellitus**
- 08:00 Omega-3 fatty acids differentially alter the expression of detoxification enzymes and nitric oxide bioavailability in endothelial cells during IL-6 exposure**
P Mason (Beverly,US)
- 08:00 Bromodomain and extraterminal (BET) protein inhibitor, apabetalone, reduces ACE2 expression and attenuates SARS-CoV-2 infection in vitro**
D Gilham (Calgary,CA)
- 08:00 Pace of arterial aging and its association with cardiovascular risk factors**
A Akopyan (Moscow,RU)
- 08:00 Exercise training inhibits left ventricular collagen upregulation in mice with hypertrophic cardiomyopathy**
K Andreassen (Oslo,NO)
- 08:00 Eicosapentaenoic acid inhibits lipopolysaccharide (LPS)-induced nitrite production and cytokine release from J774 macrophages**
P Mason (Beverly,US)
- 08:00 The vascular clock: a new insight into endothelial cells and pericytes crosstalk**
- 08:00 Improvement of retinal microvascular function after initiation of lipid-lowering therapy with PCSK9 inhibitors - an observational study**
- 08:00 Omega-3 fatty acids differentially reduced expression of neutrophil degranulation-associated proteins in endothelial cells during IL-6 exposure**
P Mason (Beverly,US)
- 08:00 Circulating metabolome does not predict development of aortic stenosis**
E Koljonen (Kuopio,FI)
- 08:00 The impact of daily troponin-I and d-dimer serum levels on mortality of moderate-to-severe covid-19 pneumonia patients**
B Stavileci (Istanbul,TR)
- 08:00 Influence of highest dominant frequency area on fibrillation dynamics and frequency spectrum on electrograms**
AM Sanchez de la Nava (Madrid,ES)
- 08:00 HDAC inhibition regulates cardiac function by increasing myofilament calcium sensitivity and decreasing diastolic tension**

- 08:00 Combined deletion of PR-domain containing 16 (Prdm16) in cardiomyocyte and non-cardiomyocyte lineages results in spontaneous early-onset lethality and progressive left ventricular dysfunction in mice.**
J Van Wauwe (- ,BE)
- 08:00 Formation of human cardiomyocytes is impaired in a fibrotic environment: unravelling human cardiac regeneration**
A Ramkisoensing (The Hague,NL)
- 08:00 Vitamin k epoxide reductase complex subunit 1-like 1 (VKORC1L1) inhibition induces a proliferative and pro-inflammatory vascular smooth muscle cell phenotype**
M Al Zaidi (Bonn,DE)
- 08:00 Different myocardial microRNA expression patterns are observed in pressure overload- and volume overload-induced chronic heart failure**
M Ruppert (Gyor,HU)
- 08:00 Sodium-glucose co-transporter 1 and 2 expression in the mammary artery of patients with bypass surgery: role of the pro-inflammatory response and contribution to oxidative stress**
V Schini-Kerth (Illkirch Cedex,FR)
- 08:00 Thromboinflammatory profiling in atrial cardiopathy**
A Claessen (- ,DE)
- 08:00 Interleukin 6 -174 G/C polymorphism: its relation to coronary artery disease and circulating IL-6 levels- a systematic review and meta-analysis**
H Rai (Dublin,IE)
- 08:00 Genetic deletion of aryl hydrocarbon receptor activates cardiac NLRP3-inflammasome and suppresses apoptosis in mice with acute myocardial infarction**
M Tamayo Garcia (Madrid,ES)
- 08:00 Inhibition of ceramide synthesis improves the outcome in ischemia/reperfusion injury using human-induced pluripotent stem cell derived cardiomyocyte**
P Haxhikadrija (- ,XK)
- 08:00 Morphological features of mitral annular calcification leading to systolic anterior motion of the mitral valve**
- 08:00 Interconnection of the level of uric acid at risk of development of type 2 diabetes mellitus on FINDRISC scale in women moderate and high cardiovascular risk**
I Komir (- ,UA)
- 08:00 Contributions of small dense LDL and oxidized LDL on the formation of neoatherosclerosis in patients under statin treatment**
- 08:00 Aerobic exercise training prevents skeletal myopathy by myomiRs regulation in heart failure**
BRA Pelozin (Sao Paulo,BR)
- 08:00 Medical model of the diagnosis of multifocal atherosclerosis in patients with stable ischemic heart disease**
- 08:00 Study and modulation of cardiac electroporation with a novel model utilizing human induced pluripotent stem cells**

- 08:00 Proprotein convertase subtilisin/kexin Type 9 links inflammation to vascular endothelial cell dysfunction**
T Leucker (Baltimore,US)
- 08:00 A pro-resolving phenotype underpins the anti-inflammatory effects of inorganic nitrate**
C Primus (London,GB)
- 08:00 Features of disorders of uric acid metabolism in male patients with hypertension and atrial fibrillation**
T Barysenka (Hrodna,BY)
- 08:00 Cutting-free application of CRISPR-mediated endogenous gene activation in human induced pluripotent stem cell derived cardiomyocytes and engineered human myocardium**
E Schoger (Goettingen,DE)
- 08:00 Infrared study and computational simulations of coronary arteries atherosclerotic lesions for early diagnosis of disease progression**
I Mamarelis (Athens,GR)
- 08:00 Single-cell transcriptome analysis yields new insights into the pathogenic mechanisms and possible genetic etiology of cardiomyopathies**
W Zhu (Hong Kong,CN)
- 08:00 Protective effects of different types of bariatric surgeries on myocardial ischemia-reperfusion injury in non-obese non-diabetic rats**
A Fdfff (Saint Petersburg,RU)
- 08:00 The role of Activin A and ALK4 in epicardial to mesenchymal transition (EpiMT) and epicardium-driven repair of the heart**
- 08:00 Endothelial dysfunction in the acute phase of the SARS-CoV-2 infection**
- 08:00 Acute induction of psoriasis-like skin inflammation disturbs vascular tone and provokes a rapid blood pressure response in mice**
J Wild (Mainz,DE)
- 08:00 Human pericardial fluid exosomes regulate macrophage immunophenotype: new prospective for cardiovascular myocardium-epicardium crosstalk in coronary artery disease**
S Ben-Aicha (London,GB)
- 08:00 Doxorubicin induced cardiotoxicity is mediated by increased CerS2 expression and ceramide accumulation in vitro and in vivo**
T Kretzschmar (- ,DE)
- 08:00 Detection of direct oral anticoagulants with the dilute Russels viper venom time - Observations in a real life setting**
T Kloeter (Leipzig,DE)
- 08:00 Left ventricular SGLT1 expression correlates with the extent of myocardial nitro-oxidative stress in rat models of heart failure**
AA Sayour (Budapest,HU)
- 08:00 Haemocompatibility testing allows selective adaption of GA-free SULEEI-preparation strategy for bovine pericardium**

- 08:00 Impaired transcriptional compensation for oxidative damage in a porcine model of ischaemic cardiomyopathy**
- 08:00 Quantitative evaluation of coronary artery occlusion by 3D coronary volume reconstruction in a large animal model of acute myocardial infarction**
- 08:00 Cardiac reparative therapy with adipose graft transposition procedure (AGTP) improves electrophysiological remodeling of chronic myocardial infarction**
R Adelino Recasens (Barcelona,ES)
- 08:00 Positronium life-time as a new approach for cardiac masses imaging**
- 08:00 Distinct metabolic transcriptional patterns and Warburg effect in porcine model of ischaemic cardiomyopathy**
- 08:00 Circadian dependence of the acute immune response to myocardial infarction**
A Kilgallen (Utrecht,NL)
- 08:00 Identification of miRNA-497 and miRNA-27b-5p as potential diagnostic markers of cardiac fibrosis**
R Tikhomirov (Milan,IT)
- 08:00 Protective effects of dapagliflozin on vascular remodeling in the carotid artery following balloon injury - potential role of angiotensin and purinergic signaling**
- 08:00 Isolated superfused rats atrial model for the investigation of atrial fibrillation mechanisms and treatment**
S Glatstein (- ,IL)
- 08:00 Attenuated cardiac post-ischemic injury and endothelial dysfunction by stimulation of soluble guanylyl cyclase in red blood cells from patients with type 2 diabetes**
T JIAO (Stockholm,SE)
- 08:00 Effect of inflammation-mediated endothelial metabolic shift on endothelial barrier function**
M Aslam (Giessen,DE)
- 08:00 Increased nerve fibers and decreased perivascular adipose tissue in coronary arteries of acute myocardial infarction patients indicate structural changes before AMI episode**
- 08:00 Functional and proteomic investigation of potential role of steroid hormones in regulating early cardiac recovery in a rat model of isoproterenol induced intermittent myocardial ischemia**
BA Barta (Budapest,HU)
- 08:00 PI 3-kinase isoform PI3K α controls smooth muscle cell functionality and protects against aortic aneurysm formation**
- 08:00 Selective inhibition of the PI3K isoform p110 α using BYL719 protects against tyrosine kinase-mediated processes in PASMCs and reduces experimental pulmonary hypertension in mice and rats**

- 08:00 The BET protein inhibitor apabetalone (RVX-208) restores angiogenic response in type 1 and type 2 diabetes by transcriptional regulation of thrombospondin-1**
s Mohammed (Zurich,CH)
- 08:00 Genome-wide association study of atrial fibrillation in 114,539 Finnish individuals reveals novel locus associated with cardiac remodelling**
C Paludan-Muller (Copenhagen O,DK)
- 08:00 Sphingosine-1-phosphate receptors modulate platelet activation and thrombin formation**
- 08:00 Long-term post-discharge coagulation abnormalities in patients with moderate to severe COVID-19**
- 08:00 Resveratrol regulates cytokine secretion by cardiac microvascular endothelium under hypoxia/reoxygenation condition**
H Cui (Beijing,CN)
- 08:00 Thrombin and factor Xa promote premature senescence and remodeling in areas at risk of the left appendage and in atrial endothelial cells: Potential modulation by SGLT1 and/or SGLT2 inhibition**
W Fakih (Illkirch Graffenstaden,FR)
- 08:00 Defining the relationship between lipids and immune traits in TwinsUK**
- 08:00 Effects of atrial fibrillation on ventricular remodeling in the human heart**
- 08:00 Distribution of monocyte subsets and atherosclerotic plaque phenotyping**
R Vinci (Roma,IT)
- 08:00 The microvascular endothelial redoxome established through tandem mass tag mass spectrometry.**
S Cottrill (- ,GB)
- 08:00 Early microvascular modifications in patients previously hospitalized for COVID-19: comparison with healthy individuals**
- 08:00 No dynamic changes in plasma ACE2 activity in patients with acute coronary syndrome**
G W Hamilton (Heidelberg,AU)
- 08:00 The emerging role of reassessment of genetic testing results in the diagnosis of the unexplained sudden cardiac arrest's causes**
- 08:00 Characterizing the cardiovascular phenotype of a new zebrafish model of Marfan syndrome**
P Sips (- ,BE)
- 08:00 Casein kinase 2 activity is a regulator of AAV transduction efficiency in human iPSC-derived cardiomyocytes and epicardial fibroblasts**
- 08:00 Autonomic and cardiac evaluation upon sub-therapeutic doxorubicin**

- 08:00 **Novel perfusion ex-vivo culture system enables physiological and pathological studies on porcine arteries**
R Matos (Guildford,GB)
- 08:00 **Stabilisation of HIF signalling in the epicardium extends embryonic potential and the neonatal regenerative window**
- 08:00 **Fiber-optic laser energy for pulmonary artery denervation: results of an experimental study**
HI Condori Leandro (Saint Petersburg,RU)
- 08:00 **Realization of fully biological restoration of cardiac rhythm: a computational translational exploration**
T De Coster (Leiden,NL)
- 08:00 **Is endothelial dysfunction a driving force of COVID-19 induced coagulopathy?**
O Dukhin (Moscow,RU)
- 08:00 **Small nucleolar RNA SNORD3A: a potential new biomarker and molecular player in heart failure**
R Paolillo (Torre Del Greco,IT)
- 08:00 **Cytokine storm induced coagulopathy in septic shock and critical Covid-19: head-to-head comparison.**
M Dechamps (Brussels,BE)
- 08:00 **S-glutathionylation, a redox switch disrupting angiogenic balance to promote the preeclampsia phenotype**
A Lermant (- ,GB)
- 08:00 **Sterile inflammation through Ca²⁺/ Calmodulin-dependent protein kinase II signaling is essential for adverse cardiac remodeling**
T Suetomi (Ube,JP)
- 08:00 **Molecular background of impairments in skeletal muscle of heart failure patients**
O Ivanova (Saint-Petersburg,RU)
- 08:00 **Monoamine oxidase contributes to the valvular oxidative stress in patients with mitral valve regurgitation**
R Sosdean (Timisoara,RO)
- 08:00 **Activation of adenosine receptors improved cardiac dysfunction induced by myocardial infarction**
- 08:00 **Smooth muscle cell specific ablation of CXCL12 downregulates endothelial CXCR7 leading to defective coronary arteries and cardiac hypertrophy**
- 08:00 **The predictive power of biomarker macrophage migration inhibitory factor in patients with st- segment elevation myocardial infarction**
I Vishnevskaya (Kharkov,UA)
- 08:00 **Long-term safety and efficacy of intramyocardial adenovirus-mediated VEGF-DdNdC gene therapy: eight-year follow-up of phase 1 KAT301 study**
AJ Leikas (Kuopio,FI)

- 08:00 Hypolipidemia associated with inactivation of TM6SF2 is due to decreased VLDL-lipids secretion**
F Luo (Changsha,CN)
- 08:00 The biomarker macrophage migration inhibitory factor as a predictor of no-reflow phenomenon and other adverse events in patients with st-segment elevation myocardial infarction**
I Vishnevskaya (Kharkov,UA)
- 08:00 Altered atrial restitution dynamics and refractoriness in metabolic syndrome due to up-regulation of potassium repolarizing currents increases susceptibility to atrial fibrillation**
- 08:00 Simultaneous atrial and ventricular restitution and fibrillation analyses using a low-cost scalable panoramic whole-heart optical mapping configuration for whole-heart imaging of translational models**
- 08:00 Quercetin, a novel traditional Chinese drug for the prevention of atherosclerosis by targeting NRF2/KEAP1 pathway**
X Luo (- ,CN)
- 08:00 Development an ovine myocardial infarction- induced heart failure model and characterisation of altered calcium homeostasis mechanisms**
B Niort (Manchester,FR)
- 08:00 Impact of COVID-19 disease on platelet reactivity and association with inflammatory parameters**
M Ascencio Lemus (Sevilla,ES)

Learning Objectives:

Categories:

e-posters	Friday, 27 August 2021	08:00 - 20:00	Abstracts and Clinical Cases - On Demand
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Arrhythmias e-posters

Session Number: 317

Chairpersons:

- 08:00 Low voltage in limb leads in arrhythmogenic cardiomyopathy.**
S Peters (Norden,DE)
- 08:00 Secondary prevention implantable cardioverter-defibrillator (ICD) therapy in octogenarians: effective and safe**
C Hauck (Regensburg,DE)
- 08:00 Features of changes in left ventricular mechanics in patients with epicardial obesity**
O Gritsenko (Barnaul,RU)
- 08:00 Heart rate turbulence as potential adjuvant index for optimal treatment guidance in severe pulmonary artery hypertension.**
E Simeonidou (Athens,GR)
- 08:00 Experience with a wearable cardioverter defibrillator in 436 patients**
H Naegele (Hamburg,DE)
- 08:00 Comparison of clockwise and counterclockwise right atrial flutter using high-resolution mapping**
- 08:00 Characterization of superresponders to cryoballoon ablation.**
J Marti Almor (Barcelona,ES)
- 08:00 Role of ranolazine in the prevention and treatment of atrial fibrillation in patients with systolic heart failure: a meta-analysis of randomized clinical trials**
- 08:00 Is there an antiarrhythmic benefit from switching to sacubitril/valsartan therapy? A systematic review and meta-analysis.**
- 08:00 Clinical factors predicting asymptomatic atrial fibrillation in middle eastern patients**
A Obiedat (Amman,JO)
- 08:00 Association between atrial high rate episode burden and autonomic and vascular function in patients with implanted cardiac device**
A Khan (Birmingham,GB)
- 08:00 Device for modeling of intra-arterial circulation: application in experimental cardiology**
O Germanova (Samara,RU)
- 08:00 Multipoint left ventricular pacing effects on hemodynamic parameters and functional status: HUMVEE single-arm clinical trial**
P Xydis (Athens,GR)
- 08:00 Location of sinoatrial artery and atria**
- 08:00 Recurrences of atrial fibrillation in patients with heart failure without reduced ejection fraction: a role for CA125**
JA Perez Rivera (Burgos,ES)
- 08:00 Long-term outcomes among a cohort of 4296 implantable cardioverter-defibrillator patients: insights from the UMBRELLA study**
S Briongos Figuero (Madrid,ES)
- 08:00 Prospective evaluation of the learning curve and electrical characteristics of left**

bundle branch area pacing.
LIB Heckman (Maastricht,NL)

- 08:00 Novel rhythm conversion approach in unsuccessful electric cardioversion of persistent atrial fibrillation**
- 08:00 Utility of miR-155, miR-21 and miR-16 in plasma as biomarkers of atrial fibrillation**
JA Ortega-Hernandez (Df,MX)
- 08:00 Genetic polymorphisms of matrix metalloproteinase - 9, tissue inhibitor of matrix metalloproteinase - 1 and development of postoperative atrial fibrillation in elderly patients**
O Rubanenko (Samara,RU)
- 08:00 Long-term implications of pacemaker insertion in younger adults: a single centre experience**
A Shirwaiker (Melbourne,AU)
- 08:00 Higher incidence of stroke in severe COVID-19 is not associated with a higher burden of arrhythmias: Comparison to other types of severe pneumonia**
P Jirak (Salzburg,AT)
- 08:00 Significance of mitral L wave to predict late recurrence of atrial fibrillation after radiofrequency catheter ablation**
- 08:00 Cryoablation versus anti-arrhythmic therapy for initial treatment of atrial fibrillation: a systematic review and meta-analysis.**
M Patel (Westerville,US)
- 08:00 Atrial functional mitral regurgitation in patients qualified for pulmonary vein isolation: a negative prognostic factor for catheter ablation efficacy.**
M Cichon (Jaworzno,PL)
- 08:00 Accuracy and acute efficacy of a novel occlusion tool to guide cryoballoon-based pulmonary vein isolation**
L Rottner (Hamburg,DE)
- 08:00 Characteristics and outcomes of ventricular tachycardia and premature ventricular contractions ablation in patients with prior mitral valve surgery**
F Khalil (- ,US)
- 08:00 Genetic polymorphisms of interleukin-6 and interleukin-10 are not associated with new onset atrial fibrillation after coronary artery bypass graft surgery**
O Rubanenko (Samara,RU)
- 08:00 Increasing use of amiodarone in Norway**
O-G Anfinssen (Strommen,NO)
- 08:00 Initial clinical experience of pulmonary vein isolation using the novel ultra-low temperature cryoablation catheter for patients with atrial fibrillation**
- 08:00 Catheter ablation supported by extracorporeal membrane oxygenation -last resort treatment of arrhythmic storm?**
- 08:00 Evolution in lesion index durability using the new third generation laser balloon catheter for pulmonary vein isolation - Does the mechanical innovation mean also clinical innovation?**

- 08:00 Dyssynchronous cardiomyopathy in patients with WPW syndrome and its reversibility after RFA of accessory pathway**
- 08:00 Complications of epi- and endocardial pacing in children**
- 08:00 Predictors and outcomes of TLE via femoral vein bailout**
Y Shafir (Kiryat Ono,IL)
- 08:00 Increased FDG uptake in AF individuals suggesting atrial inflammation visualized by FDG PET/CT with glucose uptake suppression protocols**
J Kupusovic (Essen,DE)
- 08:00 Cardiac implantable electronic devices: a marker for poor outcome in patients with COVID-19 infection**
B Green (Bear Sheva,IL)
- 08:00 Patients with reflex syncope have a higher prevalence of atrial fibrillation than general population which is predicted by the type of the tilt table test response**
JM Farinha (Lisboa,PT)
- 08:00 Subcutaneous ICD combined with VT ablation for the secondary prevention of sudden cardiac death: pilot data from the prospective multinational SICD-VTAbl study**
I Goldenberg (Rochester,US)
- 08:00 Impact of comorbidities and ablation strategy on outcome after pulmonary vein isolation with cryo-balloon in patients with non- paroxysmal atrial fibrillation**
A Berkowitsch (Bad Nauheim,DE)
- 08:00 A randomised, controlled trial of meditation and yoga in permanent atrial fibrillation: the MAYA study**
A Kodliwadmth (Belgaum,IN)
- 08:00 Emery-Dreifuss muscular dystrophy presenting as a heart rhythm disorders in children**
- 08:00 Earliest pulmonary vein potential guided cryoballoon ablation is associated with better clinical outcomes than conventional cryoballoon ablation: a result from two randomized clinical studies**
J Yonekawa (Yokkaichi,JP)
- 08:00 The most common ECG findings in hospitalized COVID-19 patients: analysis of 47 292 records in Moscow ECG IT Centre**
- 08:00 Catheter contact angle influences local impedance drop during radiofrequency catheter ablation: Insight from a porcine experimental study**
G Matsuura (- ,JP)
- 08:00 Characteristics and long-term ablation outcomes of supraventricular arrhythmias in hypertrophic cardiomyopathy: a 10-year, single-center experience**
HD ZHANG (Beijing,CN)
- 08:00 Linear increase in the number of non-pulmonary vein triggers from paroxysmal to persistent and long-standing persistent AF in patients undergoing repeat procedure after successful isolation of pulmona**

- 08:00 Efficacy of left bundle branch area pacing in patients with indication for cardiac resynchronization therapy**
- 08:00 Cardiac arrest in patients hospitalized for COVID-19: a tertiary medical center retrospective cohort study**
S Luo (Chicago,US)
- 08:00 Sinus bradycardia as the initial manifestation of multisystem inflammatory syndrome in children**
I Mendoza (Caracas,VE)
- 08:00 Myocardial injury after pulmonary vein isolation: fire versus ice**
A R Morgado Gomes (Coimbra,PT)
- 08:00 Nationwide study of sudden cardiac death among children and young adults in Iceland**
V Jonsdottir (Gothenburg,SE)
- 08:00 Long-term outcomes of 265,737 patients hospitalised with atrial fibrillation and atrial flutter from 2008 to 2015**
L Ngo (Brisbane,AU)
- 08:00 Ongoing antiarrhythmic drug therapy type does not affect the rate of first-pass pulmonary vein isolation: data from a multicenter registry**
N Gasimova (Saint-Petersburg,RU)
- 08:00 Predictive value of QRS duration normalized to left ventricular volume for responding to cardiac resynchronization therapy in patients with mid-QRS duration enrolled in the multicenter registry**
N Yamamoto (- ,JP)
- 08:00 Atrial Fibrillation is Characterized by a Failure to Augment Left Atrial Emptying Fraction in Response to Exercise.**
- 08:00 Arrhythmic risk stratification in patients with clinically-suspected left ventricular arrhythmogenic cardiomyopathy**
G Peretto (Milan,IT)
- 08:00 Clinical impact of continuous electrical monitoring in patients with arrhythmic myocarditis: a prospective cohort study**
G Peretto (Milan,IT)
- 08:00 Novel cryoballoon to isolate pulmonary veins in patients with paroxysmal atrial fibrillation: one-year outcomes in a multicenter study**
AP Martin (Auckland,NZ)
- 08:00 Does radiofrequency with contact force supersede cryoballoon for atrial fibrillation ablation ? A one-year follow-up retrospective study.**
F Farnir (Warsage,BE)
- 08:00 A mixed-reality holographic viewing platform enabling interaction with 3D electroanatomical maps using the HoloLens**
- 08:00 Evaluation of ventricular tachycardia inducibility after implementation of a standardized programmed ventricular stimulation protocol in patients with repaired Tetralogy of Fallot.**

L Herrador Galindo (San Joan Despi,ES)

- 08:00 Differences in ventricular tachycardia inducibility in patients with Tetralogy of Fallot depending on the clinical indication for the electrophysiologic study.**
L Herrador Galindo (San Joan Despi,ES)
- 08:00 Amiodarone and amplitude spectral area of ventricular fibrillation in patients with out-of-hospital cardiac arrest.**
F Gentile (Rieti,IT)
- 08:00 Antibiotic selection and risk profiles in patients receiving antibacterial cardiovascular implantable electronic device envelopes - a real world sample and analysis**
T Deering (Atlanta,US)
- 08:00 Utilization and complications of catheter ablation for ventricular arrhythmias in patients with mechanical valves**
G Rozen (Yuvalim,IL)
- 08:00 Activity levels influence frequency of premature atrial contractions**
LSB Johnson (Malmoe,SE)
- 08:00 Electrograms from the coronary sinus as a predictor for the outcome of a re-do pulmonary vein isolation.**
Y Mohsen (Koeln,DE)
- 08:00 Impact of clinical risk factor profile vs. atrial fibrillation phenotype on outcome after pulmonary vein isolation**
- 08:00 Detection of left atrial fibrosis in LGE-MRI and high-density electroanatomical mapping: finding a threshold for the best match**
Y Mohsen (Koeln,DE)
- 08:00 Same-day discharge vs hospital admission after cardiac device implantations: A Systematic review and meta-analysis**
A Trongtorsak (Evanston,US)
- 08:00 Defibrillation testing of subcutaneous versus transvenous defibrillators in the clinical practice: a nationwide survey in Italy**
F Migliore (Padova,IT)
- 08:00 Impact of the COVID-19 pandemic on emergent pacemaker implantation during lockdown and its aftermath**
D De Almeida Fernandes (Coimbra,PT)
- 08:00 Atrial fibrillation in unexplained syncope: observations from the reveal linq registry**
- 08:00 Rotational activity presence and its impact in persistent atrial fibrillation follow-up**
GR Rios-Munoz (Madrid,ES)
- 08:00 Arrhythmia ablation in congenital heart disease patients - a single centre retrospective study**
- 08:00 Cryoballoon versus radiofrequency guided by ablation index for atrial fibrillation ablation: a retrospective propensity-matched study**
P Ribeiro Queiros (Porto,PT)

- 08:00** **Peripheral vascular access from the arms for invasive cardiac investigation using ultrasound guidance**
- 08:00** **A novel machine learning algorithm has the potential to reduce by 1/3 the quantity of ILR episodes needing review**
- 08:00** **Safety of high power and short duration ablation (70 watts over 5-7 seconds) in patients with persistent atrial fibrillation undergoing pulmonary vein isolation and additional substrate modification**
M Bartkowiak (Munich,DE)
- 08:00** **Long-term outcomes of catheter ablation for ventricular arrhythmias in post-myocarditis patients; Insights from a meta-analysis of current data**
- 08:00** **Comparing predictors of permanent pacemaker insertion after TAVR in new-generation versus early generation heart valves**
R Gupta (Allentown,US)
- 08:00** **Resting ECG measurements can identify abnormalities in children with catecholaminergic polymorphic ventricular tachycardia**
M Fridman (- ,CA)
- 08:00** **Usefulness of a smartphone-based event recorder for ambulatory patients presenting with palpitations**
- 08:00** **Correlation of signal averaged electrocardiography findings with fibrosis on cardiac magnetic resonance imaging**
S Saad (- ,US)
- 08:00** **Beat-to-beat P-wave analysis outperforms conventional P-wave indices in identifying patients with a history of paroxysmal atrial fibrillation, during sinus rhythm**
D Tachmatzidis (Thessaloniki,GR)
- 08:00** **Intracardiac 3D Mapping of Phrenic Nerve Course to determine safe site for radiofrequency pulmonary vein isolation for atrial fibrillation**
- 08:00** **Causative organisms in cardiac implantable electronic device infections- a single center experience**
- 08:00** **Outcomes of novel pacing technologies with right ventricular pacing as a primary strategy for patient undergoing transvenous permanent pacing regardless of pacing indication**
A Abdin (Homburg,DE)
- 08:00** **Unearthing the evidence: post-mortem interrogation of cardiac implantable electronic devices**
- 08:00** **Contrast-enhanced image guided lead deployment for left bundle branch pacing**
X Liu (Beijing,CN)
- 08:00** **Concomitant real-time measurement and correlation of contact force to baseline local impedance and local impedance drops in RF ablation of left and right atrial procedures**

- 08:00 Initial experience and follow up on the PolarX cryoablation system compared to the established Arctic Front cryoablation system in PVI ablations**
- 08:00 Epicardial adipose tissue and nonvalvular atrial fibrillation**
M Arakelyan (Moscow,RU)
- 08:00 Feasibility and efficacy using the kodex-epd imaging system in right atrial flutter ablation: a single center experience**
V Schillaci (Mercogliano,IT)
- 08:00 Left atrial appendage size is a marker of atrial fibrillation recurrence after radiofrequency catheter ablation in patients with persistent atrial fibrillation**
J Simon (Budapest,HU)
- 08:00 The effect of patient weight and amiodarone use on the energy of a successful shock in cardioversion of atrial arrhythmias - single-center experience study**
O Jiravsky (Horni Sucha,CZ)
- 08:00 Assessment of heart rate agreement on continuous photoplethysmography monitoring using a smartwatch versus beat-to-beat synchronized ECG monitoring**
H Gruwez (Antwerp,BE)
- 08:00 The photoplethysmography dictionary: practical guidance on signal interpretation and clinical scenarios from TeleCheck-AF.**
R Van Der Velden (- ,NL)
- 08:00 Atrial fibrillation as a risk factor of severe course of COVID-19**
- 08:00 Comparative analysis of life-threatening arrhythmic events in patients with different types of long QT syndrome**
N Chakova (- ,BY)
- 08:00 Performance of transcatheter pacing system use in Relation to Patient Age**
- 08:00 Predicting silent atrial fibrillation in the elderly - NOMED-AF study**
K Mitrega (Zabrze,PL)
- 08:00 Local areas of earlier repolarization cause epicardial repolarization heterogeneity in patients with apparently idiopathic ventricular fibrillation**
- 08:00 Electrophysiological predictors of ventricular tachycardia recurrence in patients with structural heart disease after combined endo-epicardial substrate catheter ablation.**
K A Simonova (Saint-Petersburg,RU)
- 08:00 Clustering of healthy lifestyle behaviors is associated with a lower incidence of adverse events in patients with newly diagnosed atrial fibrillation: a nationwide cohort study**
- 08:00 Prognostic value of atrial fibrillation in COVID-19 admitted patients**
- 08:00 Microvolt t-wave alternans its clinical significance in the assessment of the risk of sudden cardiac death among patients with hypertrophic cardiomyopathy**

- 08:00 The role of ILR monitoring in patients with a family history of SADS, a view from real clinical practice**
R Durand (Derry,GB)
- 08:00 Real-world experience with a new implantable cardiac monitor**
T Deneke (Bad Neustadt,DE)
- 08:00 The reinvented old player - an antazoline is effective in pharmacological cardioversion of atrial fibrillation**
- 08:00 Gender differences in ICD-related complications in the PRAETORIAN trial**
- 08:00 A new method for ECG recording in the prone position**
- 08:00 Predictors of survival in patients submitted to typical atrial flutter ablation**
S Couto Pereira (Lisboa,PT)
- 08:00 a tertiary centre experience comparing new temperature-controlled high-power short-duration ablation technology with standard radiofrequency and cryo-energy ablation**
A Mavilakandy (- ,GB)
- 08:00 Nine year experience of the Northern Ireland Inherited Cardiac Conditions Service(NI ICC of slow vs. rapid ajmaline infusion protocols for the diagnosis of Brugada syndrome(BrS)**
H Sulaiman (Dun Laoghaire,IE)
- 08:00 Role of LA strain assessed by speckle tracking echocardiography in predicting patients who develop POAF after a coronary artery bypass surgery**
R Rukmani Prabha (Chennai,IN)
- 08:00 Implantable loop recorder follow-up**
J Pena Mellado (Mairena Del Alcor,ES)
- 08:00 Prediction of sites of wall thickening and abnormal late enhancement on cardiac CT and magnetic resonance imaging using electrocardiography findings in patients with confirmed cardiac amyloidosis**
N Funabashi (Chiba,JP)
- 08:00 Clinical impact of high density mapping in atypical atrial flutters ablation: outlining critical circuits in complex atrial tachycardias**
A Di Cori (Pisa,IT)
- 08:00 Social-occupational impact and level of satisfaction in patients included in a remote monitoring pacemaker programme.**
- 08:00 LSI guided-high power short duration is safe and improves pulmonary vein isolation efficiency.**
A Di Cori (Pisa,IT)
- 08:00 Carbon footprint as a marker of environmental impact in patients included in a remote monitoring pacemaker programme.**
- 08:00 Direct oral anticoagulants vs warfarin in non-valvular atrial fibrillation. Meta-analysis, includes all published trials.**
D Evangelista (Guayaquil,EC)

- 08:00** **Anatomical dilation for the coronary sinus ostium in patients with pulmonary arterial hypertension and its impact to trigger the atrioventricular reentrant tachycardia: a case control study**
L Ding (Beijing,CN)
- 08:00** **Fast-slow atrioventricular nodal reentrant tachycardia phenotype mimicking the slow-slow type**
Y Kaneko (Maebashi,JP)
- 08:00** **A new electrophysiological triad for atrial flutter critical isthmus identification and localization**

Learning Objectives:

Categories: Abstract-Based Programme

Atrial fibrillation e-posters

Session Number: **318**

Chairpersons:

- 08:00 The impact of abnormal conduction zone on outcomes after catheter ablation for atrial fibrillation**
T Mine (Nishinomiya,JP)
- 08:00 Thromboembolic risk of movable type left atrial appendage thrombi in patients with atrial fibrillation under widespread use of anticoagulants**
M Sugitani (Nishinomiya,JP)
- 08:00 Rate and rhythm control treatment in the elderly and very elderly patients with atrial fibrillation: an observational cohort study of 1,497 patients**
T Klamer (- ,NL)
- 08:00 One year outcome and analysis of peri-device leak of left atrial appendage occlusion devices**
- 08:00 Risk prediction of atrial fibrillation and its complications in the community using high-sensitivity cardiac Troponin I: Results from the BiomarCaRE Consortium**
- 08:00 Outcomes and resource utilization of atrial fibrillation hospitalizations with type 2 myocardial infarction**
- 08:00 Prognostic implications of valvular heart disease in patients with non-valvular atrial fibrillation**
- 08:00 Negative impact of socioeconomic deprivation on clinical outcomes after cryoablation for atrial fibrillation: 18-month study**
O Cimpanu (Glasgow,GB)
- 08:00 Assessment of cardiac autonomic function in patients with permanent and paroxysmal atrial fibrillation**
A Khan (Birmingham,GB)
- 08:00 Adherence to the 4S-AF Scheme in the Balkan region: insights from the BALKAN-AF survey**
M Koziel (Zabrze,PL)
- 08:00 Predictors for intra cranial haemorrhage in frail elderly patients with frequent falls using antithrombotic medication**
LAR Zwart (Amsterdam,NL)
- 08:00 Subjective identification and ablation of drivers in persistent atrial fibrillation**
E Franco (Madrid,ES)
- 08:00 Association between personalized evidence-based anticoagulation therapy and outcomes at 1-year follow-up in patients with atrial fibrillation: an analysis from the Atrial Fibrillation registry**
E Pokushalov (Novosibirsk,RU)
- 08:00 Safety and efficacy using second-generation cryoballoon in patients with atrial fibrillation with a common ostium of inferior pulmonary veins**
H Xie (- ,CN)
- 08:00 Pharmacological cardioversion of recent-onset atrial fibrillation in patients with chronic kidney disease: sub-analysis of the CANT Study**
M Wybraniec (Katowice,PL)
- 08:00 Circulatory microRNAs as potential biomarkers for major adverse cardiac events in patients with atrial fibrillation**

- 08:00 Socioeconomic status and trends in utilization of catheter ablation in patients hospitalized with atrial fibrillation in united states**
C Rojulpote (King Of Prussia,US)
- 08:00 Radiofrequency pulmonary vein isolation using catheter dragging technique guided by grid annotation vs. point-by-point technique guided by Ablation Index: a randomized controlled trial**
M J Mulder (Amsterdam,NL)
- 08:00 Patients with symptomatic permanent atrial fibrillation show quantitative signs of pain sensitisation**
A Jackson (Orebro,SE)
- 08:00 DOAC versus warfarin in patients with atrial fibrillation and stage IV-V chronic kidney disease including patients on dialysis.**
A Wartanian (- ,SE)
- 08:00 Stroke prevention with non-vitamin K antagonist oral anticoagulants in high risk elderly atrial fibrillation patients at increased bleeding risk**
T Chao (Taipei,TW)
- 08:00 Predictors and risk model for heart failure hospitalization in atrial fibrillation patients without pre-existing heart failure: The Fushimi AF Registry**
Y Hamatani (Kyoto,JP)
- 08:00 Association of left ventricular end-diastolic diameter with incidence of thromboembolism in patients with non-valvular atrial fibrillation: The Fushimi AF Registry**
Y Tezuka (Kyoto,JP)
- 08:00 Reappraising the role of baseline plasma C-reactive protein levels on recurrence after catheter ablation of persistent atrial fibrillation: insight from EARNEST-PVI trial**
M Okada (Osaka,JP)
- 08:00 Association between myocardial wall thickness and left ventricular functional recovery after catheter ablation of atrial fibrillation in patients with reduced ejection fraction**
M Okada (Osaka,JP)
- 08:00 Association of low total cholesterol level with clinical outcomes in patients with atrial fibrillation: The Fushimi AF registry**
M Iguchi (Kyoto,JP)
- 08:00 Features of the expression of fibroblast growth factor in patients with idiopathic atrial fibrillation and verified myocarditis**
A Gusakova (Tomsk,RU)
- 08:00 Higher mortality in frail elderly with atrial fibrillation using oral anticoagulants.**
J Walgers (Alkmaar,NL)
- 08:00 Cancer and atrial fibrillation/flutter: an analysis of patients referred to electrical cardioversion**
R Menezes Fernandes (Loule,PT)
- 08:00 Should we keep performing electrical cardioversion in atrial fibrillation/flutter?**
R Menezes Fernandes (Loule,PT)
- 08:00 Maintaining sinus rhythm after electrical cardioversion**

- 08:00 Risk of ischemic stroke in patients with atrial fibrillation and concomitant hyperthyroidism: a nationwide cohort study**
- 08:00 Renal function and use of medication preceding new-onset atrial fibrillation - results from the nationwide FinACAF study**
H Jyrkila (- ,FI)
- 08:00 Impact of haemodialysis in the development of atrial fibrillation: a retrospective cross-sectional study**
D De Almeida Fernandes (Coimbra,PT)
- 08:00 Comparing the adverse outcomes of left atrial appendage occlusion in patients with diabetes**
J Gill (North Chicago,US)
- 08:00 Impact of rate control medications on one-year outcomes with atrial fibrillation and heart failure**
R Mo (Beijing,CN)
- 08:00 Quarterly versus annual ECG screening for atrial fibrillation in older Chinese (AF-CATCH): a prospective, randomised, controlled trial**
W Zhang (- ,CN)
- 08:00 Clinical utility of genetic testing in atrial fibrillation**
- 08:00 Impacts of hemoglobin levels and platelet counts on clinical outcomes in patients with atrial fibrillation: oral anticoagulant use for patients with anemia and/or thrombocytopenia**
T Chao (Taipei,TW)
- 08:00 Outcomes of radiofrequency catheter ablation for persistent and long-standing persistent atrial fibrillation**
- 08:00 Incidence of cardiovascular events in patients with atrial fibrillation anticoagulated with rivaroxaban after 2.5 years of follow-up: not all is stroke or bleeding**
M Anguita Sanchez (Cordoba,ES)
- 08:00 Impact of polypharmacy on clinical outcomes in elderly patients with nonvalvular atrial fibrillation: sub-analysis of the ANAFIE Registry**
T Yamashita (Tokyo,JP)
- 08:00 Predictors for major bleeding in elderly (75 years and over) patients with non-valvular atrial fibrillation at high risk of bleeding: sub-analysis of the ANAFIE Registry**
K Okumura (Kumamoto,JP)
- 08:00 Predictors of adverse clinical outcomes in atrial fibrillation patients with concomitant renal impairment under rivaroxaban therapy**
- 08:00 Pharmacist management of atrial fibrillation: a pilot educational intervention study**
S Al-Arkee (- ,GB)
- 08:00 Prevalence and incidence rates of atrial fibrillation in Denmark 2004-2018**
I Ariansen (Oslo,NO)

- 08:00** **Left atrial stiffness measured by echocardiography is a stronger predictor of atrial fibrillation recurrence after radiofrequency catheter ablation than left atrial volume**
JM Farinha (Lisboa,PT)
- 08:00** **Effectiveness and safety of edoxaban in atrial fibrillation patients from the ETNA-AF global registry**
- 08:00** **An off-pump biatrial mini-maze procedure for treatment of long-standing persistent atrial fibrillation**
T Yan (Shanghai,CN)
- 08:00** **The effect of shared decision-making for stroke prevention on treatment adherence and safety outcomes in patients with atrial fibrillation: a randomized clinical trial**
P Noseworthy (Rochester,US)
- 08:00** **Exploring the temporal relationship between atrial fibrillation and heart failure development. Analysis from nationwide database**
- 08:00** **Impact of NOAC and VKA on outcome of patients with newly diagnosed atrial fibrillation and diabetes: A report from the GARFIELD-AF registry**
J Bassand (Thise,FR)
- 08:00** **Comparative effectiveness of NOAC vs VKA in patients representing common clinical challenges: results from the GARFIELD-AF registry**
S Virdone (London,GB)
- 08:00** **Rivaroxaban dosing in patients with atrial fibrillation: results from the RIVER registry- is dosing according to renal function appropriate?**
AJ Camm (London,GB)
- 08:00** **Safety and efficacy of apixaban and rivaroxaban versus warfarin in real-world atrial fibrillation patients are similar to their randomized trials: insights from GARFIELD-AF registry**
JCL Himmelreich (Amsterdam,NL)
- 08:00** **Comparing Rivaroxaban and Apixaban in GARFIELD-AF according to ROCKET AF and ARISTOTLE trial selection criteria**
JCL Himmelreich (Amsterdam,NL)
- 08:00** **Diagnostic accuracy of D-dimer to detect left atrial thrombus in patients with atrial fibrillation: a systematic review and meta-analysis**
- 08:00** **Burden of atrial fibrillation in influenza hospitalizations: analysis from 2018 national inpatient sample**
H Thyagaturu (Cooperstown,US)
- 08:00** **Signs of heart failure with preserved ejection fraction in atrial fibrillation patients normalise in many patients after restoration of sinus rhythm.**
- 08:00** **Low haemoglobin is associated with increased risk of complications in left atrial appendage closure patients**
D Zweiker (Vienna,AT)
- 08:00** **Effect of internet-delivered cognitive behavioral therapy on quality of life in patients with symptomatic atrial fibrillation**

- 08:00 Clinical significances of prothrombin time-international normalized ratio and activated partial thromboplastin time in patients with atrial fibrillation treated with direct oral anticoagulants**
T Chao (Taipei,TW)
- 08:00 Efficacy and safety of intravenous beta-blockers in acute atrial fibrillation and flutter is dependent on beta-1 selectivity: a systematic review and meta-analysis of randomised trials**
M Perrett (Birmingham,GB)
- 08:00 Comparison of the HAS-BLED, ORBIT and ATRIA bleeding risk scores in 399,344 patients with atrial fibrillation and cancer.**
D Pastori (Rome,IT)
- 08:00 Unveiling the impact of fibrosis presence in fibrillatory electrograms**
GR Rios-Munoz (Madrid,ES)
- 08:00 Incidence of left atrial appendage thrombus on pre-procedural TOE before catheter ablation of atrial tachyarrhythmias**
F Wegner (Muenster,DE)
- 08:00 Effect of pulmonary vein isolation on left atrial remodeling and muscle sympathetic nerve activity in patients with atrial fibrillation.**
Y Mukai (Kanazawa,JP)
- 08:00 The association between cumulative exposure to elevated serum gamma-glutamyltransferase level and risk of atrial fibrillation: a large population-based cohort study**
W Jeon (- ,KR)
- 08:00 Differences in quality of life improvement with pulmonary vein isolation alone vs. more extensive ablation of persistent atrial fibrillation: insights from the EARNEST-PVI trial**
T Kanda (- ,JP)
- 08:00 Ischemic stroke in low risk patients with atrial fibrillation: A nationwide, registry-based cohort study**
- 08:00 The impact of substrate and trigger ablation for reduction of functional mitral regurgitation in patients with persistent atrial fibrillation**
- 08:00 Impact of low-dose or under-dose direct oral anticoagulant on coagulation and fibrinolytic markers in patients with atrial fibrillation**
- 08:00 Impact of the introduction of an integrated multi-professional pathway for atrial fibrillation on long-term outcomes**
- 08:00 Clinical application of the novel 4S-AF scheme for the characterisation of patients with atrial fibrillation: a report from the ESC-EHRA EORP Atrial Fibrillation General Long-Term (AFGen LT) Registry**
WY Ding (Liverpool,GB)
- 08:00 Long-term clinical outcomes in patients after catheter ablation for atrial fibrillation or atrioventricular node ablation : a french nationwide cohort study**
- 08:00 Digoxin vs. beta-blocker therapy in atrial fibrillation: analysis from the ESC-EHRA EORP Atrial Fibrillation General Long-Term (AFGen LT) Registry**

WY Ding (Liverpool,GB)

- 08:00** **Stroke risk based on classification of atrial fibrillation: real-world vs clinical trial**
WY Ding (Liverpool,GB)
- 08:00** **Clinical features, management and outcomes of gastrointestinal bleeding in patients treated with oral anticoagulants**
D Marti Sanchez (Madrid,ES)
- 08:00** **Population screening for atrial fibrillation in subjects with sleep apnea**
H Zhang (Beijing,CN)
- 08:00** **Real-world clinical outcomes and anticoagulant therapy in elderly non-valvular atrial fibrillation patients with heart failure: sub-analysis of the ANAFIE Registry**
S Ikeda (- ,JP)
- 08:00** **One-year follow-up results of the optimal thromboprophylaxis in elderly Chinese patients with atrial fibrillation (ChiOTEAF) registry**
Y Wang (Beijing,CN)
- 08:00** **Previous pacemaker therapy was not associated with the risk of clinical events in patients with atrial fibrillation: The Fushimi AF Registry**
H Ogawa (Kyoto,JP)
- 08:00** **Poor glycemic control in diabetic patients increases the risk of recurrent atrial arrhythmia and cardiovascular hospitalizations among morbidly obese patients undergoing atrial fibrillation ablation**
K Stout (Omaha,US)
- 08:00** **Comparative adherence between DOAC and VKA in patients with atrial fibrillation: a 23-year retrospective observational study in Canada**
S Salmasi (- ,CA)
- 08:00** **Characterization of long-term oral anticoagulant adherence trajectories among patients with atrial fibrillation: a retrospective observational study**
S Salmasi (- ,CA)
- 08:00** **Predictors of atrial fibrillation recurrence after surgical ablation of long-standing persistent AF with concomitant coronary artery bypass grafting**
A Kalybekova (Novosibirsk,RU)
- 08:00** **Local impedance characteristics and advanced mapping capabilities to better understand pulmonary veins reconnections during repeat AF ablation procedures: insight from the CHARISMA registry**
L Segreti (Vecchiano,IT)
- 08:00** **Key characteristics for effective acute pulmonary vein isolation when using a novel cryo-balloon technology: insight from the CHARISMA registry**
- 08:00** **Novel cryo-balloon technology for a successful pulmonary vein isolation: preliminary experience from a multicenter Italian clinical setting**
C Tondo (Milan,IT)
- 08:00** **Impacts of off-label dosing noacs on clinical outcomes in very elderly patients with atrial fibrillation**
T Chao (Taipei,TW)
- 08:00** **The association between novel ST2, BNP, atrial fibrillation and heart failure**
K Al-Wahaibi (A'seeb,OM)

- 08:00** **Cross-sectional and longitudinal characterisation of cognitive function and outcomes in patients presenting to hospital with cardiovascular risk factors.**
W Chua (Birmingham,GB)
- 08:00** **Cryoablation of atrial fibrillation: first results from the Cool-TreatS study**
- 08:00** **Left atrial cardiomyopathy and 10-year risk of atrial fibrillation**
- 08:00** **Predictive performance of different bleeding risk scores in patients with atrial fibrillation and acute coronary syndrome or undergoing percutaneous coronary intervention**
- 08:00** **Antidiabetic drugs use and new-onset atrial fibrillation in patients with diabetes mellitus**
L Fauchier (Tours,FR)
- 08:00** **The individual approach to management of patients with atrial fibrillation and its influence on patient adherence to anticoagulant therapy**
T Novikova (St-Petersburg,RU)
- 08:00** **Yield of two week holter monitoring and diagnostic accuracy of intermittent single-lead electrocardiogram recordings in screening for paroxysmal atrial fibrillation in primary care**
EPM Karregat (Amsterdam,NL)
- 08:00** **Third-generation laser balloon ablation: rapid mode applicability is associated with shorter time to pulmonary vein isolation**
- 08:00** **Real use of a novel automatic motorized laser balloon for the ablation of atrial fibrillation**
- 08:00** **Immunothrombosis and new-onset atrial fibrillation in the general population**
MJ Tilly (Rotterdam,NL)
- 08:00** **10-year clinical outcomes after radiofrequency catheter ablation for atrial fibrillation. A single center experience.**
J Alderete Martinez (Kyoto,JP)
- 08:00** **Association between atrial fibrillation and coronary slow flow**
XD Zhuang (Guangzhou,CN)
- 08:00** **Third-generation laser balloon ablation for atrial fibrillation treatment: a multicenter experience**
- 08:00** **Use of oral anticoagulation for people with atrial fibrillation post-stroke and associations with recurrent stroke and mortality: a systematic review**
M Shahid (- ,GB)
- 08:00** **Implantable defibrillator-computed respiratory disturbance index predicts new-onset atrial fibrillation: the DASAP-HF Study**
- 08:00** **Catheter ablation of atrial fibrillation in patients under 45 years of age. Longterm outcome**
S Calero Nunez (Albacete,ES)

- 08:00 Diabetes is associated with atrial fibrillation phenotype, cardiac and neurological comorbidities: Insights from the Swiss-AF study**
- 08:00 Atrial chamber colocalization for multiple 3D imaging techniques in atrial fibrillation**
GR Rios-Munoz (Madrid,ES)
- 08:00 Combination of CHARGE AF score and index of 24-hour electrocardiogram to predict incident atrial fibrillation and cardiovascular events**
- 08:00 Use of antihypertensive medication before diagnosis of atrial fibrillation in Finland - results from the nationwide FinACAF -study.**
A Luojus (- ,FI)
- 08:00 Comparison between early versus late pulmonary vein isolation in the management of atrial fibrillation**
V Intan-Goey (Antwerpen,BE)
- 08:00 Cancer incidence during follow-up in patients with new-onset atrial fibrillation treated with DOACs and its impact on bleeding risk**
- 08:00 Prevalence and predictors of inappropriate DOAC prescription on first attendance at a dedicated atrial fibrillation clinic**
S Suleiman (- ,IE)
- 08:00 Risk of cardiovascular hospitalization and heart failure (HF) progression in patients with atrial fibrillation and HF with preserved ejection fraction (HFpEF) is influenced by race and co-morbidities**
- 08:00 Prevalence and impact of frailty in patients with atrial fibrillation: a systematic review and meta-analysis**
- 08:00 Global utilization and outcomes of first-line cryoablation for atrial fibrillation**
- 08:00 Trajectories of metabolic risk factors and risk of new-onset atrial fibrillation among men and women**
- 08:00 Coronary calcification by computed tomography in patients with paroxysmal and persistent atrial fibrillation undergoing catheter ablation**
S Fernandes (Guarda,PT)
- 08:00 Effectiveness and safety of non-vitamin K antagonist oral anticoagulants versus warfarin among nonvalvular atrial fibrillation patients with prior bleeding events**
- 08:00 Effectiveness and safety of non-vitamin K antagonist oral anticoagulants among nonvalvular atrial fibrillation patients with prior bleeding events**
- 08:00 Early vs late new-onset atrial fibrillation in STEMI patients: pathophysiological mechanisms and relationship with in-hospital outcomes**
FG Biccire (Rome,IT)
- 08:00 Time at home among nonvalvular atrial fibrillation patients treated with non-**

- 08:00 **Time at home among nonvalvular atrial fibrillation patients treated with non-vitamin K antagonist oral anticoagulants: an ARISTOPHANES analysis**
- 08:00 **Feasibility of preprocedural LAA occluder sizing**
C Brenner (Bruchsal,DE)
- 08:00 **Stepwise endo-/epicardial catheter ablation for atrial fibrillation: the Mediterranea approach**
- 08:00 **Pulmonary veins reconnection pattern differences after failed radiofrequency ablation and cryoballoon ablation for atrial fibrillation**
I antoun (Leicester,GB)
- 08:00 **Predictors of early and late recurrence of atrial fibrillation after catheter ablation: two sides of the same coin?**
M Ribeiro da Silva (Vila Nova De Gaia,PT)
- 08:00 **Defining the optimal blanking period duration after cryoballoon pulmonary vein isolation in patients with atrial fibrillation who have never been treated with an antiarrhythmic drug**
N Milstein (Paramus,US)
- 08:00 **Does use of an antiarrhythmic drug prior to cryoballoon pulmonary vein isolation impact the duration of the post-ablation blanking period?**
M Saberito (- ,US)
- 08:00 **Electrical anatomy of the left atrium during atrial fibrillation**
- 08:00 **Increase of left atrial pressure depending on heart rate is associated with symptoms in patients with paroxysmal atrial fibrillation**
E Fukuhara (Nishinomiya,JP)
- 08:00 **Discontinuation of anticoagulation and its associated factors in atrial fibrillation**
S Sanchez Bustamante (Buenos Aires,AR)
- 08:00 **Left atrial strain imaging and integrated backscatter: predictors of recurrence in patients with paroxysmal, persistent and long-standing persistent atrial fibrillation undergoing catheter ablation**
P Garcia Bras (Lisbon,PT)
- 08:00 **Management and clinical outcome of patients with atrial fibrillation stratified by the 4S-AF scheme for structured characterization of atrial fibrillation: data from CODE-AF registry**
- 08:00 **Less dementia in patients with newly diagnosed atrial fibrillation adhering with a clustering of healthy lifestyle behaviours: a nationwide population-based cohort study**
S Park (- ,KR)
- 08:00 **One size does not fit all - a realist review of screening for asymptomatic atrial fibrillation in Indigenous communities in Australia, Canada, New Zealand and United States**
S Nahdi (- ,AU)
- 08:00 **Impact of cumulative burden of body mass index and waist circumference on risk**

of atrial fibrillation: an analysis of 3,700,000 participants who underwent 4-year consecutive annual health examination

TM Rhee (Seoul,KR)

08:00

Association of neighbourhood-level poverty with outcomes and clinical care following atrial fibrillation diagnosis in a universal healthcare system

LE Akioyamen (Toronto,CA)

08:00

Renal function and arrhythmia outcomes in persistent atrial fibrillation patients after catheter ablation: subanalysis of the EARNEST-PVI trial

N Tanaka (Osaka,JP)

08:00

Non-vitamin K antagonist oral anticoagulant discontinuation in non-valvular atrial fibrillation patients (ASPECT-NOAC)

E Asilturk (Antalya,TR)

08:00

Impact of atrial fibrillation in patients with Colorectal Cancer: a National inpatient sample database analysis

08:00

Cerebral microbleeds and risk of adverse outcomes in patients with atrial fibrillation: a systematic review and meta-analysis

08:00

High level of growth differentiation factor 15 and lower left ventricular ejection fraction as predictors of left atrial thrombosis in patients with nonvalvular atrial fibrillation

A Belokurova (Tyumen,RU)

08:00

Association of the degree of thrombocytopenia with cause of death in patients with atrial fibrillation: The Fushimi AF Registry

K Ishigami (Kyoto-Shi,JP)

08:00

Natriuretic peptides predict future heart failure and cardiovascular death in an unselected population of patients presenting to hospital: Interactions with atrial fibrillation

P Brady (Birmingham,GB)

08:00

Polygraphy as a new screening method for obstructive sleep apnea in patients with atrial fibrillation?

M Delesie (Berchem,BE)

08:00

Actual management costs of patients with non-valvular atrial fibrillation treated with percutaneous left atrial appendage closure or oral anticoagulation

G d'ancona (Berlin,DE)

08:00

Relation of biomarkers of inflammation, oxidative stress and fibrosis in patient with atrial fibrillation

P Pauklin (Tartu,EE)

08:00

Anticoagulation and bleeding events in Patients with Post- Operative Atrial Fibrillation After Cardiac Surgery

Z Alam (- ,US)

08:00

Characteristics of patients with atrial high rate episodes detected by implanted defibrillator and resynchronisation devices

K Miyazawa (Toshima-Ku,JP)

08:00

Age-adjusted risk factors are independently associated with an increased risk of ischaemic stroke, transient ischaemic stroke and systemic embolism in the ETNA-AF-Europe registry

R De Caterina (Pisa,IT)

- 08:00** **Is balloon cryoablation effective in common pulmonary trunk?**
- 08:00** **Two-year outcomes of patients with atrial fibrillation treated with rivaroxaban: results from RIVER registry**
J Beyer-Westendorf (Dresden,DE)
- 08:00** **Performance of an artificial intelligence algorithm to detect atrial fibrillation on a 24-hour continuous photoplethysmography recording using a smartwatch: ACURATE study**
H Gruwez (Antwerp,BE)
- 08:00** **Diagnostic performance of deep learning on 12-leads electrocardiography for recurrence after pulmonary vein isolation in patients with persistent atrial fibrillation**
M Shimizu (Yokohama,JP)
- 08:00** **The impact of dronedarone on patients with atrial fibrillation and diabetes - A sub-analysis of the ATHENA and EURIDIS/ADONIS trials**
Y Handelsman (Tarzana,US)
- 08:00** **Most remote monitoring alerts about atrial fibrillation are not relevant to identify clinically significant events: proposal of a new approach**
- 08:00** **Worsening renal function as an outcome predictor in patients with new onset atrial fibrillation on direct oral anticoagulant**
L Bartoli (- ,IT)
- 08:00** **External validation of H2ARDD score for the prediction of heart failure events in patients with atrial fibrillation**
N Taniguchi (Osaka,JP)
- 08:00** **Antiarrhythmic medication for atrial fibrillation (AIM-AF) study: a physician survey of antiarrhythmic drug (AAD) treatment practices and guideline adherence in Europe**
C Blomstrom-Lundqvist (Uppsala,SE)
- 08:00** **Age and impaired left atrial performance are associated with increased atrial fibrosis in patients with paroxysmal and persistent atrial fibrillation.**
V Traykov (Sofia,BG)
- 08:00** **Tomography evaluation of morphological characteristics of the right atrium in patients with atrial fibrillation and flutter**
- 08:00** **Digoxin treatment and long-term mortality depending on left ventricular ejection fraction and atrial fibrillation: a propensity score matched analysis**
- 08:00** **Real-world comparison of different periprocedural antithrombotic strategies for atrial fibrillation catheter ablation**
- 08:00** **Thoracoscopic ablation for symptomatic atrial fibrillation improves quality of life**
L Vos (Amsterdam Zuidoost,NL)
- 08:00** **Aortic plaques in patients with atrial fibrillation: an often-forgotten risk factor for thromboembolism**
AF Esteves (Lisboa,PT)

- 08:00** **Epidemiology of subclinical atrial fibrillation in patients with cardiac implantable electronic devices: a systematic review and meta-analysis**
- 08:00** **Do we need imaging support to minimize radiation exposure in cryo-ablation for atrial fibrillation? The VLADIMIR strategy**
M Guisasola Cienfuegos (Madrid,ES)
- 08:00** **Trimethylamine-N-oxide (TMAO) is associated with cardiovascular mortality and vascular brain lesions in patients with atrial fibrillation**
- 08:00** **Bleeding risk and healthcare resource utilisation in elderly patients treated with edoxaban or vitamin K antagonists for atrial fibrillation in Italy and the Netherlands**
E Smits (Utrecht,NL)
- 08:00** **Cryoablation: safety of same day discharge**
- 08:00** **Association between rhythm or rate control treatment and dementia risk among patients with atrial fibrillation: a nationwide cohort study**
- 08:00** **Impact of gender on the association between aortic wave reflection and left atrial function in hypertensive patients with recurrent atrial fibrillation**
E Kokhan (Vidnoye,RU)
- 08:00** **Screening for anticoagulation undertreatment in more than 100,000 patients with atrial fibrillation in general practices in the Netherlands**
- 08:00** **Novel cryoballoon ablation system vs standard cryoballoon ablation system for pulmonary vein isolation: The ICE-AGE-X Study**
R Tilz (Luebeck,DE)

Learning Objectives:

Categories: Abstract-Based Programme

e-posters	Friday, 27 August 2021	08:00 - 20:00	Abstracts and Clinical Cases - On Demand
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Syncope and bradycardia e-posters

Session Number: 319

Chairpersons:

- 08:00** **Lifetime prevalence of syncope: the HELIUS study**
-
- 08:00** **Syncope: a worrisome presenting symptom during the first wave of COVID-19 in Italy**
C Amellone (Torino,IT)
-
- 08:00** **The relationship between anatomy and electrical parameters in His bundle pacing**
-
- 08:00** **Are there sex differences in patients with syncope and bundle branch block?**
J Francisco Pascual (Caldes De Montbui,ES)
-
- 08:00** **Leadless pacemaker patients following cardiac valve intervention in a long-term follow-up**
L Gonzalez (Santiago De Compostela,ES)
-
- 08:00** **Leadless pacemaker implant with concomitant atrioventricular node ablation: experience in a single center study with longterm followup**
JL Martinez Sande (Santiago De Compostela,ES)
-
- 08:00** **Utility of telemetry in syncope admissions**
-
- 08:00** **Endocardial pacing compared to epicardial left ventricle pacing and right ventricle pacing: a single center long term experience in a pediatric population**
P Gatti (Solna,IT)
-
- 08:00** **Acute and long-term major complications in clinical practice: a comparison between transcatheter pacing system and transvenous pacemaker**
S Iacopino (Lamezia Terme,IT)
-
- 08:00** **Role of oral flecainide in assesement of atrio-ventricular conduction in symptomatic bifascicular block.**
-
- 08:00** **Real-world experience on the safety and effectiveness of Micra TPS in patients with pre-existing in situ CIEDs**
-
- 08:00** **Leadless pacemaker implant in patients requiring CIED extraction: outcomes based upon timing of extraction**
W Jung (Villingen-Schwenningen,DE)
-
- 08:00** **Adenosine plasma levels and Adenosine receptor levels determine the outcome of Adenosine test and head-up tilt test in syncopal patients with a normal heart**
-
- 08:00** **Incidence of atrioventricular blocks and its association with in-hospital mortality and morbidity in patients with coronavirus disease 2019 (COVID-19)**
N Lao (- ,US)
-
- 08:00** **Predicting reflex syncope based on plethysmography: a new wearable device development and preliminary results**
-
- 08:00** **Association of folate and vitamin B12 deficiency with vasovagal syncope: a case-control study**
A Aminorroaya (Tehran,IR)
-
- 08:00** **Temporary prolongation of corrected QT interval after cardioneuroablation for**

functional bradyarrhythmias

D Wichterle (Prague,CZ)

- 08:00 Predictors of heart failure hospitalization and cardiovascular mortality in patients with chronic right ventricle pacing**
- 08:00 Safety and efficacy of His-bundle pacing/left bundle branch area pacing versus right ventricular pacing: a systematic review and meta-analysis**

Learning Objectives:

Device therapy e-posters

Session Number: 320

Chairpersons:

08:00	Intraoperative echocardiography for electrode implantation into the left bundle branch region in patients with indications for cardiac resynchronization therapy N Naidenko (Odessa,UA)	
08:00	Adherence to guidelines of diagnostic and therapeutic practices for suspected infections of cardiac implantable electronic devices G De Ciancio (Vandoeuvre Les Nancy,FR)	
08:00	Prognostic effect of the electrocardiographic pattern following cardiac resincronization	
08:00	Single- vs dual-chamber ICDs to prevent from inappropriate shocks: the debate is still alive S Briongos Figuero (Madrid,ES)	
08:00	Validation of leadless atrioventricular synchronous pacing with Holter-ECG: a pilot study S Briongos Figuero (Madrid,ES)	
08:00	The effect of QRS area in predicting survival benefit following cardiac resynchronization therapy: a systematic review and meta- analysis N Tokavanich (Bangkok,TH)	
08:00	HeartLogic algorithm for heart failure monitoring in the era of CoViD-19 pandemic and remote monitoring/telemedicine C Amellone (Torino,IT)	
08:00	Effects of obesity on survival in patients with implantable cardioverter defibrillator F Polat (Istanbul,TR)	
08:00	Ethnic variation in implantable cardioverter defibrillator implant trends in New Zealand 2005-2019 FS Foo (Auckland,NZ)	
08:00	Pacemaker upgrade to CRT-D or CRT-P without prior ventricular arrhythmias: a long-term single-centre retrospective analysis W R Schwertner (Budapest,HU)	
08:00	Applicability of the AHA/ACC/HRS guideline for implantable cardioverter defibrillator implantation in Japanese patients with cardiac sarcoidosis S Takenaka (Sapporo,JP)	
08:00	Impact of transcatheter aortic valve implantations on temporal trends of pacemaker implantations among French octogenarians: a nation-wide cohort study over the period 2008-2018	
08:00	Implantable cardioverter-defibrillator therapy after resuscitation from cardiac arrest in vasospastic angina K Tateishi (Chiba,JP)	
08:00	Development of a risk stratification score based on social predictors in patients undergoing implantable cardioverter defibrillator	
08:00	Detection of atrial high-rate episodes on remote monitoring of cardiac devices: are we following guidelines to determine the need for oral anti-coagulation?	Withdrawn
08:00	Response and long-term outcomes with resynchronization therapy in atrial fibrillation	

- 08:00 Ten-year follow-up of implantable cardioverter-defibrillator device implantation in non-ischaemic cardiomyopathy - an insight from real world practice in a large district general hospital.**
J Abramik (Bristol,GB)
- 08:00 Incidental finding of "ghost" on echocardiography after transvenous lead extraction among systemic infection patients**
A Azari (Stockholm,SE)
- 08:00 Feasibility of using his bundle pacing with boston scientific generators**
N Mark (- ,GB)
- 08:00 Leadless pacemaker implant in the elderly: a safe and feasible solution**
V Barletta (Massa,IT)
- 08:00 ICD exchange in the elderly**
- 08:00 Antibiotic prophylaxis based on individual infective risk stratification in cardiac implantable electronic device**
M Malagu (Ferrara,IT)
- 08:00 Stability of pacemaker parameters in cardiac amyloidosis patients**
J Wang (- ,CN)
- 08:00 QRS narrowing predicts left ventricular reverse remodelling after resynchronization therapy in patients with end-stage heart failure**
M Neves Pereira (Guimaraes,PT)
- 08:00 Impact of atrial fibrillation and biventricular pacing percentage on long-term outcome in patients with heart failure treated with cardiac resynchronization therapy**
M Neves Pereira (Guimaraes,PT)
- 08:00 Optimal left ventricular lead positioning during cardiac resynchronisation therapy; a comparison of 2 methods.**
P Chousou (Cambridge,GB)
- 08:00 Subclavian versus axillary vein puncture for implantation of cardiac electronic devices. A meta-analysis.**
- 08:00 Clinical characteristics, management, and outcomes of patients with electrical storm: single centre experience**
S A Di Fusco (Roma,IT)
- 08:00 His bundle pacing: safety, performance, and clinical outcomes in a single centre experience**
L Bartoli (- ,IT)
- 08:00 Optimal his bundle pacing programming in patients with permanent atrial fibrillation**
GP Piemontese (Bologna,IT)
- 08:00 Usefulness of pace to peak R wave time measurement in patients with His bundle pacing**
- 08:00 Outcomes of leadless pacemaker implantation in patients with mechanical heart**

valves

- 08:00 Ventricular fibrillation amplitude analysis and comparison for transvenous ICD and extravascular ICD systems**
- 08:00 A novel research platform for sudden cardiac death based on continuous, real-life, unlimited follow-up of a cohort of high-risk patients**
S Boveda (Toulouse,FR)
- 08:00 New York Heart Association class change on heart failure patients with implantable devices: does it matters?**
F Duarte (Ponta Delgada,PT)
- 08:00 The frequency of electrodes replacement in patients undergoing cardiac resynchronizaton therapy during long term follow up**
E Jedrzejczyk-Patej (Zabrze,PL)
- 08:00 Dual-chamber cardiac pacing effect on left and right atria morphometric parameters and function**
M Vitezlis (- ,LT)
- 08:00 Evaluation of relationship between interlead electrical delay time and reverse remodeling of left ventricle in patients with quadripolar cardiac resynchronization therapy for long-term follow-up**
T Lubimceva (Saint-Petersburg,RU)
- 08:00 Performance of the multisensory cardiac implantable electronic device algorithm HeartLogic in a real-world ambulant chronic heart failure population**
M Feijen (Amsterdam,NL)
- 08:00 Predicting CRT outcome by combining markers from personalized ventricular models of electrophysiology and clinical data**
- 08:00 Survival among ischemic and non-ischemic heart failure patients with primary implantable cardioverter defibrillator therapy in Korea: A Nationwide Cohort Study**
PS Yang (Seongnam,KR)
- 08:00 Timing of ejection fraction reassessment after sacubitril-valsartan initiation for indication to defibrillator implantation. A single center experience**
V Carinci (Bologna,IT)
- 08:00 Selectra 3D- guided conduction system pacing: single-center experience.**
- 08:00 3D electro-anatomical mapping to guide conduction system pacing in complex cardiac anatomies.**
- 08:00 Conduction system pacing in cardiac resynchronization: short-mid term follow-up**
- 08:00 Left bundle branch pacing: 2 year single-centre experience**

Learning Objectives:

Categories: Abstract-Based Programme

e-posters	Friday, 27 August 2021	08:00 - 20:00	Abstracts and Clinical Cases - On Demand
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Ventricular arrhythmias and sudden cardiac death e-posters

Session Number: 321

Chairpersons:

- 08:00 A territory-wide study of arrhythmogenic right ventricular cardiomyopathy patients from Hong Kong**
- 08:00 Arrhythmias caused by mutations in SCN5A in children**
E Polyakova (Moscow,RU)
- 08:00 Real-world evaluation of follow up strategies after implantable cardiac-defibrillator therapies in patients with ventricular tachycardia (REFINE-VT)**
P Tran (Coventry,GB)
- 08:00 Sex differences in incidence of out-of-hospital cardiac arrest across ethnic and socioeconomic groups: a population-based cohort study in the Netherlands**
R Boliijn (Amsterdam,NL)
- 08:00 Socioeconomic data predict adverse cardiovascular outcomes**
JB Kostis (New Brunswick,US)
- 08:00 Comparison of mortality prediction scores in elderly patients with ICD for heart failure with reduced ejection fraction**
T Cinar (Istanbul,TR)
- 08:00 Ertugliflozin to reduce arrhythmic burden in ICD/CRT patients (ERASe-trial). a phase III study**
D von Lewinski (Graz,AT)
- 08:00 High incidence of inappropriate alarms in patients with wearable cardioverter-defibrillators: findings from the swiss WCD registry**
B Kovacs (Zurich,CH)
- 08:00 Does patient age and BMI affect temporal changes in depth-force relationship during CPR?**
- 08:00 Long-term outcome after adding an ICD to CRT in non-ischemic patients**
- 08:00 Out-of-Hospital Cardiac Arrest due to Refractory Pulseless Ventricular Tachycardia (VT) and/or Ventricular Fibrillation (VF)**
S Uppal (Columbus,US)
- 08:00 LncRNA CDKN2B-AS1 associated to ventricular fibrillation during acute myocardial infarction**
- 08:00 QRS fragmentation is associated with increased risk of ventricular arrhythmias**
- 08:00 Arrhythmic storm in patients with and without a myocardial infarction**
- 08:00 Idiopathic ventricular arrhythmias ablating from different subregions in the aortic sinus cusps: anatomic distribution, electrocardiography, and electrophysiology characteristics**
S Weng (- ,CN)
- 08:00 The resuscitation status of implantable cardioverter-defibrillator patients according to electronic health records: are we ignoring the device?**
R Aldous (- ,GB)
- 08:00 Out-of-hospital cardiac arrest in COVID 19 era. A single center experience**

- 08:00 VT recurrence and predictors in patients with VT inducibility at the end of VT ablation.**
K Nakasone (Kobe,JP)
- 08:00 The role of bystander-initiated basic life support in exercise-related sudden cardiac arrest: a systematic review**
N Grubic (- ,CA)
- 08:00 Deformation imaging reveals early reduction of global longitudinal strain after collateral cardiac irradiation**
MH van der Ree (Amsterdam,NL)
- 08:00 Incremental value of atrial sensing in the diagnosis of ICD recordings: findings from the THINGS registry**
V Carinci (Bologna,IT)
- 08:00 Different response to vitamin D supplementation of PVCs from RVOT and non-outflow tract RV regions**
G Cismaru (Cluj-Napoca,RO)
- 08:00 Echocardiographic determinants of ventricular arrhythmia in sickle cell disease adults**
M Dupuy (- ,FR)
- 08:00 An effect of radiofrequency catheter ablation on quality of life index in patients with premature ventricular complex-induced cardiomyopathy**
HA Cakmak (Bursa,TR)
- 08:00 Non-invasive mapping reduces procedure duration for catheter ablation of premature ventricular contractions using 12 lead ECG information: results from a prospective case-control study**
- 08:00 The utility of the implantable loop recorder in patients with a diagnosis or family history of long QT syndrome**
- 08:00 Gender related differences in brugada syndrome**
- 08:00 Ventricular tachycardia ablation in nonischemic cardiomyopathy**
- 08:00 Magnetic resonance imaging in the evaluation of idiopathic frequent premature ventricular complexes with normal ventricular function**
F Hosseini (Vancouver,CA)
- 08:00 Risk stratification in patients with Brugada syndrome: the role of the late potentials evaluated by signal-averaged ECG**
- 08:00 Illusion of coronary artery chronic total occlusion-associated ventricular arrhythmia: results from a multi-centre study.**
S Limaye (- ,US)
- 08:00 Repeatability of ventricular arrhythmia characteristics during exercise stress testing in patients with catecholaminergic polymorphic ventricular tachycardia**

08:00	Repolarization heterogeneity within the myocardial infarction border zone correlates with variability of myocyte remodeling D Vermoordele (- ,BE)	
08:00	Electrophysiologic study for risk stratification in Brugada Syndrome: does it still matters? G Faia Carvalho Dias (Braga,PT)	
08:00	Prodromal symptoms of out-of-hospital cardiac arrest among patients calling emergency and non-emergency medical help services N Zylyftari (Copenhagen S,DK)	
08:00	Sex differences in implantable cardiac defibrillator decision: myth or fact? P Remior (Madrid,ES)	
08:00	Association of female sexual hormones with QTc time in hypertensive subjects	
08:00	Novel variant of the glycerol-3-phosphate dehydrogenase-1 Like (GPD1-L) gene in Japanese Brugada syndrome patients K Usuda (Kanazawa,JP)	
08:00	Evaluation of the utility of the MADIT-ICD benefit prediction score to select patients suitable for primary prevention implantable cardioverter defibrillators - a single tertiary centre experience	Withdrawn
08:00	It is possible to predict mortality after ICD implantation?	
08:00	Predictors of survival and ICD shocks in a population submitted to ventricular tachycardia ablation	
08:00	Racial disparities in out-of-hospital cardiac arrest in Denmark R Garcia (Poitiers,FR)	
08:00	Frequency and distribution of J waves in survivors of ventricular fibrillation relationship with presence of myocardial fibrotic and or fat change and coronary arterial stenosis on cardiac CT N Funabashi (Chiba,JP)	

Learning Objectives:

Categories: Abstract-Based Programme

e-posters	Friday, 27 August 2021	08:00 - 20:00	Abstracts and Clinical Cases - On Demand
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Valvular heart disease and infective endocarditis e-posters

Session Number: 322

Chairpersons:

- 08:00 Clinical and echocardiographic characteristics associated with the development of infective endocarditis in patients with significant mitral stenosis**
N Ngiam (Singapore,SG)
- 08:00 Local or general anesthesia for TAVI surgery? An updated systematic review and meta-analysis.**
Z Cheng (Chengdu,CN)
- 08:00 Use of left ventricular support devices during transcatheter aortic valve replacement and balloon aortic valvuloplasty: a single center experience**
S Mahmood (- ,US)
- 08:00 Association of major bleeding with outcomes in patients undergoing transcatheter edge- to-edge repair of mitral valve**
K Ahuja (- ,US)
- 08:00 Left atrial dynamics in the hemodynamic response during exercise in patients with asymptomatic severe aortic stenosis**
T Sugimoto (Tsu City,JP)
- 08:00 Impact of mitral valve regurgitation severity on clinical outcomes in patients with severe aortic stenosis undergoing TAVI**
V Jimenez Franco (Santa Catarina,MX)
- 08:00 Mortality and heart failure in patients with severe tricuspid regurgitation. Risk stratification based on TR severity by CMR**
R Hinojar Baydes (Madrid,ES)
- 08:00 Prognostic impact of different parameters of right ventricular systolic function in patients with significant tricuspid regurgitation. A Cardiac Magnetic Resonance study**
R Hinojar Baydes (Madrid,ES)
- 08:00 Transfemoral versus transapical approach for transcatheter aortic valve implantation: a systematic review and meta-analysis of adjusted studies**
- 08:00 Regression of electrocardiographic left ventricular hypertrophy after transcatheter aortic valve replacement for aortic stenosis**
A Tobe (Aichi,JP)
- 08:00 Incidental findings on computed tomography for preoperative assessment before transcatheter aortic valve implantation in japanese patients**
A Tobe (Aichi,JP)
- 08:00 Long term outcomes of patients with aortic structural valve deterioration treated with transcatheter valve in valve implantation**
- 08:00 Impact of catheter ablation on functional tricuspid regurgitation in patients with atrial fibrillation**
S Nishiwaki (Osaka,JP)
- 08:00 Sub-phenotyping of patients with severe aortic stenosis undergoing transcatheter aortic valve replacement by unsupervised agglomerative clustering of echocardiographic and hemodynamic data**
M Lachmann (Rheinberg,DE)
- 08:00 Prevalence, echocardiographic profile and clinical outcomes of patients with paradoxical low-gradient rheumatic mitral stenosis**
N Ngiam (Singapore,SG)

- 08:00** **Prognostic value of diastolic function parameters in significant aortic regurgitation. The role of the left atrial strain.**
- 08:00** **Rheumatic myocarditis: a poorly recognized etiology of left ventricular dysfunction in valvular heart disease patients**
V Emer Egypto Rosa (Sao Paulo,BR)
- 08:00** **Routine advanced echocardiography in the evaluation of cardiovascular sequelae of COVID19 survivors with elevated cardiovascular biomarkers**
E Rodenas Alesina (Barcelona,ES)
- 08:00** **Increased risk of non-hematological cancer in young patients with aortic stenosis: a retrospective cohort study**
A Shiran (Haifa,IL)
- 08:00** **Normal values for paediatric biventricular volumes, ejection fraction and mass - influence of cardiovascular magnetic resonance analysis techniques**
S Hinz (- ,DE)
- 08:00** **Serial assessment of right ventricular function and deformation in patients with hypoplastic left heart syndrome: a cardiovascular magnetic resonance study**
L Kanngiesser (Kiel,DE)
- 08:00** **Primary mitral valve regurgitation scheduled for cardiac surgery: no longer need for coronary angiography? a clinical retrospective & HTA analysis**
M Romeo (- ,IT)
- 08:00** **Prognostic value of secondary cardiac alterations in patients with moderate aortic valve stenosis**
S Stoebe (Leipzig,DE)
- 08:00** **Comparing outcomes of transcatheter versus surgical aortic valve replacement in patients with atrial arrhythmias**
J Gill (North Chicago,US)
- 08:00** **High-degree atrioventricular block after valve-in-valve transcatheter aortic valve implantation: incidence and predictors**
S Jung (Erlangen,DE)
- 08:00** **Impact of gender on long-term prognosis after transcatheter edge-to-edge repair for mitral regurgitation**
M Geyer (Mainz,DE)
- 08:00** **Predictors of exercise capacity in patients with asymptomatic primary moderate to severe mitral regurgitation and preserved left ventricle ejection fraction**
R Zvirblyte (Kaunas,LT)
- 08:00** **Prevalence and prognostic implications of moderate or severe mitral regurgitation in patients with bicuspid aortic valve**
SC Butcher (Leiden,AU)
- 08:00** **Effectiveness of atrial fibrillation on high-intensity transient signals to cerebral circulation during TAVI.**
- 08:00** **Aortic stenosis reexpanded - a novel approach to determine aortic valve area with phase contrast cardiovascular magnetic resonance imaging**
F Troger (Innsbruck,AT)
- 08:00** **Angiotensin II receptor blockers in modulation of transforming growth factor-beta effects on mitral valve myxomatous degeneration**

- 08:00 Primary hemostatic disorders drive early and late major bleedings of patients with atrial fibrillation after transcatheter aortic valve replacement**
- 08:00 Right ventricular dysfunction before transcatheter aortic valve implantation: incidence, predictive factors and prognostic impact**
C Sacri (Saint Denis,FR)
- 08:00 Impact of atrial fibrillation on the progression and outcomes of isolated mild functional tricuspid regurgitation**
S Kwak (Seoul,KR)
- 08:00 Diagnostic value of electrocardiograms to identify pericardial effusion in acute malaria: a cross-sectional study**
M Dam Kaagaard (- ,DK)
- 08:00 Predictors for dementia during long-term follow-up after aortic valve replacement in an elderly population**
P Mistiaen (Antwerp,BE)
- 08:00 Normal values for paediatric atrial volumes assessed by steady-state free-precession cardiovascular magnetic resonance**
I Voges (Kiel,DE)
- 08:00 Prognostic value of serum biomarkers in patients with severe tricuspid regurgitation**
R Hinojar Baydes (Madrid,ES)
- 08:00 Tricuspid regurgitation in ischemic mitral regurgitation patients - prevalence, predictors for outcome and long-term follow-up**
O Koren (Kfar Tavor,IL)
- 08:00 Outcomes of transcatheter mitral valve repair in a large urban US health system**
J Hahn (Houston,US)
- 08:00 Clinical and echocardiographic trends in percutaneous balloon mitral valvuloplasty**
O Koren (Kfar Tavor,IL)
- 08:00 Katz frailty syndrom has no predictive value in low-risk patients undergoing transcatheter aortic valve implantation**
K Byczkowska (Warszawa,PL)
- 08:00 Severity of tricuspid regurgitation (TR) only based in echo parameters? The failure of guidelines. The 4A in patients with significant TR as a new clinical score to evaluate patients with TR.**
A Gonzalez Gomez (Madrid,ES)
- 08:00 Prognostic value of three dimensional-vena contracta area in patients with secondary mitral regurgitation**
- 08:00 TAVR in severely calcified annuli. a retrospective comparison of the evolutive platform with sapient 3 valve family**
M Saad (Luebeck,DE)
- 08:00 TAVI for low-flow, low-gradient severe aortic stenosis: impact on outcome**
G Oikonomou (Athens,GR)

- 08:00 Prognostic utility of global longitudinal strain (GLS) in patients with severe primary mitral regurgitation undergoing mitral valve surgery: a systematic review and meta-analysis**
RD Agustin (San Mateo,PH)
- 08:00 Role of conduit volume as a compensatory mechanism to left atrial dysfunction in severe aortic stenosis.**
R Migliore (San Martin,AR)
- 08:00 Impact of transcatheter aortic valve implantation on coronary flow reserve by transthoracic Doppler echocardiography 1-year after the intervention in severe aortic stenosis patients**
T Wada (Wakayama,JP)
- 08:00 Predicting procedural success in patients treated with Cardioband system for severe tricuspid regurgitation by employing a random forest algorithm**
V Fortmeier (- ,DE)
- 08:00 Unilateral pulmonary edema is not rare in patients with acute mitral regurgitation caused by chordal rupture**
Y Nishimura (- ,JP)
- 08:00 Changes in mitral regurgitation following acute myocardial infarction: early and long-term follow-up**
- 08:00 Aortic valve intervention should not be denied to cardiac amyloidosis patients**
- 08:00 Long-term morphological appearance of transcatheter valves left in the ascending aorta after valve dislocation during transcatheter aortic valve implantation**
- 08:00 Effect of transcatheter aortic valve implantation on left ventricular pressure overload indicated by inflammatory biomarkers in high-risk patients**
L Schulz (- ,DE)
- 08:00 Association of left atrial volume index with outcomes after transcatheter mitral valve repair for secondary mitral regurgitation: results from the EuroSMR registry**
C Iliadis (Cologne,DE)
- 08:00 Regulation of neutrophil gelatinase-associated lipocalin in aortic valve stenosis**
E Jover (Pamplona,ES)
- 08:00 Mitral valve prolapse, mitral annular disjunction, left ventricular basal hypertrophy and ventricular repolarization abnormalities in Marfan patients**
C Delhomme (Paris,FR)
- 08:00 Sex related differences in exercise performance in patients with hypertrophic cardiomyopathy: hemodynamic insights through non-invasive pressure volume analysis**
A Argiro (Florence,IT)
- 08:00 Transcatheter heart valves: histologic findings from human explants and clinical implications**
M Sigler (Goettingen,DE)
- 08:00 Impact of mitral valve anatomy suitability in echocardiographic and clinical evolution in patients referred for percutaneous edge-to-edge repair**
A Salinas (Temuco,CL)

- 08:00 Global constructive myocardial work predicts left ventricular dysfunction onset beyond longitudinal strain in patients with significant primary mitral regurgitation.**
- 08:00 Acute myocarditis with preserved ejection fraction: the role of CMR in long term follow up**
- 08:00 Specific actin (ACTC1) missense variants are associated with different overlapping clinical phenotypes and outcomes.**
M Valverde (Madrid,ES)
- 08:00 Prevalence and determinants of right ventricular dysfunction in patients with severe symptomatic high gradient aortic stenosis**
- 08:00 Evaluation of functional mitral regurgitation profile in a real-world cohort of heart failure patients and the referral rate of these patients**
J Presume (Torres Novas,PT)
- 08:00 Interventional treatment of para-valvular leaks after prosthetic valve replacement with plug devices -first results from a prospective registry.**
R Zahn (Gruenstadt,DE)
- 08:00 Impact of diabetes mellitus on long-term survival after transcatheter mitral valve edge-to-edge repair**
M Geyer (Mainz,DE)
- 08:00 Increased rate of new-onset left bundle branch block in patients with bicuspid aortic stenosis undergoing TAVR; data from a national registry**
A Shiyovich (Petah Tikva,IL)
- 08:00 Thromboembolic risk is potentially reduced in mitral stenosis shortly after percutaneous mitral valvotomy**
M Sayed (Assiut,EG)
- 08:00 Midterm outcomes after aortic valve neocuspidalization with autologous pericardium. Single center experience.**
- 08:00 TAVI for patients with pulmonary arterial hypertension - impact of the anesthesia regime on the short-term outcome**
P Mayr (Munich,DE)
- 08:00 Prevention of pacemaker lead induced tricuspid regurgitation by transesophageal echocardiography guided implantation (PLACE Pilot)**
- 08:00 Sutureless bioprosthesis as an alternative to conventional aortic valve replacement surgery**
- 08:00 Atrial longitudinal strain and new onset of atrial fibrillation in a cohort of hypertrophic cardiomyopathy patients**
H Llamas Gomez (Sevilla,ES)
- 08:00 Epidemiology of infective endocarditis in Portugal, a populational study**
C Santos de Sousa (Montijo,PT)
- 08:00 Outcomes of trans-catheter versus surgical aortic valve replacement for patients with classic low-flow low-gradient aortic stenosis**

- 08:00 Mid-term follow up of transcatheter echo guided mitral valve repair with neochordae implantation.**
P Mahia (Madrid,ES)
- 08:00 Diagnostic value and prognostic impact of various invasively derived hemodynamic parameters in patients with severe aortic stenosis undergoing TAVI**
D Grundmann (Hamburg,DE)
- 08:00 Role of left atrial reservoir function in rheumatic mitral stenosis tolerance**
- 08:00 Comparison of suture-based and collagen-based vascular closure devices for large bore arteriotomies- an updated meta-analysis of bleeding and vascular complications**
S Sohal (Newark,US)
- 08:00 Myocardial performance is impaired in cardiac amyloidosis: role of myocardial work-derived parameter in differential diagnosis with phenocopies and prognostic implications**
- 08:00 Effect of concomitant atrioventricular valve regurgitation on the outcome after transcatheter aortic-valve implantation.**
- 08:00 Quantitative angiographic assessment of aortic regurgitation after TAVI with the Venus A valve: comparison with other self-expanding valves and impact of a learning curve in a single-center**
R Wang (Xi'an,CN)
- 08:00 The impact of intraoperative pericardial three-dimensional echocardiography for the atrioventricular valve repair in the patient with congenital heart disease**
R Numata (- ,JP)
- 08:00 Regurgitant volume to left ventricular end-diastolic volume ratio: the quest to identify Disproportionate MR is not over**
- 08:00 Short-Term outcomes using contemporary balloon-expandable valves in transcatheter aortic valve implantation**
G Medranda (Washington, Dc,US)
- 08:00 Hypoxia inducible factor (HIF1A) is associated with increased right ventricular fibrosis by T1 mapping cardiac magnetic resonance in patients with repaired tetralogy of Fallot**
A Vaikom House (Oklahoma City,US)
- 08:00 Differential characteristics associated with progression of mitral and aortic regurgitation in patients undergoing kidney transplantation**
M Kim (- ,KR)
- 08:00 Does the availability of transcatheter aortic valve replacement impact inpatient outcomes after surgical aortic valve replacement?: analysis of the national inpatient sample**
- 08:00 Factors determining mitral valve dysfunction in patients who underwent surgical mitral valve replacement with bio-prosthetic valves**
S Gwak (Seoul,KR)

- 08:00** **Changes in the pattern of valvular heart disease following the epidemiological transition in Brazil from 1990 to 2019: data from the Global Burden of Disease 2019 study**
- 08:00** **Clinical and health status outcomes in nonagenarians undergoing transcatheter mitral valve repair**
- 08:00** **Effects of mitral annular calcification on the outcomes of transcatheter aortic valve implantation**
YZ Sener (Ankara,TR)
- 08:00** **Diagnostic and prognostic value of 18-FDG PET-TC in constrictive pericarditis**
- 08:00** **An association of low-density lipoproteins and fibrinolysis in patients with severe aortic stenosis- valvular expression of fibrinolytic proteins**
M Kopytek (- ,PL)
- 08:00** **Transcatheter aortic valve replacement in severe aortic stenosis and cardiac amyloidosis: a systematic review and meta-analysis**
G Pinto (Milano,IT)
- 08:00** **Rivaroxaban attenuates valvular inflammation and tissue remodeling in patients with severe aortic stenosis**
M Kopytek (- ,PL)
- 08:00** **Prevalence of cardiac amyloidosis in patients undergoing transcatheter edge-to-edge mitral valve repair**
- 08:00** **Functional, structural and molecular characterization of a new mitral valve prolapse animal model: the FLNA-P637Q KI rat.**
C Delwarde (- ,FR)
- 08:00** **National trends and outcomes of surgical aortic valve replacement with concomitant mitral valve surgery**
H Arshad (Harrison,US)
- 08:00** **Atherosclerosis associated pathways are upregulated in stenotic aortic valves from patients with severe concomitant coronary artery disease**
O Plunde (Solna,SE)
- 08:00** **Left ventricular assist device therapy improves severe secondary mitral regurgitation without mitral valve repair**
- 08:00** **Abnormal fractional flow reserve and non-hyperaemic pressure ratios in patients with severe aortic stenosis and non-obstructive coronary artery disease**
J Chan (Mount Waverley,AU)
- 08:00** **Long-term outcomes in patients with left bundle branch block after transcatheter aortic valve replacement.**
T Simon Paracuellos (- ,ES)
- 08:00** **Long term outcomes of direct implantation of a self-expanding supra-annular aortic valve**
K Toutouzas (Athens,GR)
- 08:00** **A first dedicated heart valve unit: safe and streamlined patient care for the rapidly growing field of transcatheter heart valve interventions**

- 08:00 The management of severe aortic stenosis during the covid-19 pandemic: an observational study comparing TAVI and SAVR**
M Akhtar (London,GB)
- 08:00 Twelve-months safety of valvsoft non-invasive ultrasound therapy (NIUT) in patients with severe symptomatic aortic valve stenosis: a first-in-human study**
E Messas (Paris,FR)
- 08:00 Correlation between fluoroscopy and tomographic aortic-root measurements in the decision of the transcatheter heart valve size in patients undergoing transcatheter aortic valve implantation**
HA Alvarez (Mexico,MX)
- 08:00 Phenotypic characterization of rabbit model for aortic valve stenosis: a novel medial calcification paradigm**
N Anousakis-Vlachochristou (Nea Smyrni,GR)
- 08:00 Transcatheter versus surgical valve repair in patients with severe mitral regurgitation**
- 08:00 Multi-modality imaging in hypertrophic cardiomyopathy: intermodal discrepancies in key prognostic parameters**
- 08:00 Severe tricuspid regurgitation worsens prognosis outcome after edge-to-edge mitral valve repair**
M Groeger (Ulm,DE)
- 08:00 Cardiac CT derived 3D reconstruction discriminates for complexity and hemodynamic effect of transcatheter mitral valve repair**
F Meijerink (Utrecht,NL)
- 08:00 Quantification of physical activity with Activity Tracking after transfemoral aortic valve replacement (TAVR)**
- 08:00 Potential candidates for transcatheter tricuspid valve interventions after transcatheter aortic valve implantation: predictors and prognosis**
D Tomii (Bern,CH)
- 08:00 Impact of frailty status on medium-term follow up in patients undergoing percutaneous transcatheter aortic valve implantation in a high-flow referral center with high procedural volumes**
C Fumagalli (Florence,IT)
- 08:00 Prognosis of disproportional and proportional mitral regurgitation according to etiology of secondary mitral regurgitation**
- 08:00 Invasive and Doppler Transvalvular gradients after transcatheter aortic valve replacement**
- 08:00 Validation of risk scores for permanent pacemaker implantation after TAVR.**
- 08:00 The impact of valve selection on haemodynamics in patients with small annuli undergoing contemporary transcatheter aortic valve implantation**

- 08:00** **Predictor of atrial fibrillation recurrence in patients who underwent a tricuspid valve operation with modified cox maze procedure**
- 08:00** **Valve-in-valve procedure for bioprosthesis dysfunction in rheumatic patients: a new procedure for an old disease**
M Lopes (Sao Paulo,BR)
- 08:00** **Heart rate variability in patients with tetralogy of Fallot**
- 08:00** **The prognostic value of cardiac magnetic resonance in assessment of right ventricular function after percutaneous balloon mitral valvuloplasty**
M Sayed (Assiut,EG)
- 08:00** **Clinical risk score for individualized risk stratification of patients with clinically suspected myocardial inflammation**
V Puntmann (Frankfurt,DE)
- 08:00** **Double-valve infective endocarditis: clinical features and prognostic impact; a retrospective study in a surgical centre.**
- 08:00** **Value of polymerase chain reaction in etiological diagnostic of infective endocarditis.**
E Kotova (Moscow,RU)
- 08:00** **Evolving trends in infective endocarditis over three decades in a developing country.**
A Maaroufi (Casablanca,MA)
- 08:00** **Effect of antimicrobial therapy on the embolic events in patients with infective endocarditis**
N Povalyaev (Moscow,RU)
- 08:00** **Microbiology of infective endocarditis in Hong Kong from 2000 to 2019: a 20-year analysis**
H Li (- ,HK)
- 08:00** **Survival benefits and optimal timing for surgical intervention for infective endocarditis**
H Li (- ,HK)
- 08:00** **Socio-economic variations in the clinical presentation, etiology and outcome of infective endocarditis in the ESC-EORP EURO-ENDO (European Infective Endocarditis) registry: a prospective cohort study**
- 08:00** **Injection drug use infective endocarditis: clinical features and therapeutic challenges**
- 08:00** **Associations of weekend versus weekday admission on transesophageal echocardiogram utilization and outcomes in infective endocarditis hospitalizations**
H Thyagaturu (Cooperstown,US)
- 08:00** **Postcovid morphologically proved endocarditis: infective and nonbacterial forms**
O Blagova (Moscow,RU)

- 08:00 Clinical applicability of echocardiographic strict negative criteria for suspected infective endocarditis**
V Marcos Garces (Valencia,ES)
- 08:00 Analysis of prosthetic valve endocarditis and neurological complications**
J Jahn (- ,DE)
- 08:00 Effect of thrombocytopenia in patients with infective endocarditis: an insight from the National Inpatient Sample database**
- 08:00 The impact of establishing a regional infective endocarditis (IE) network on pre-operative IE-related complications and on post-operative outcome**
- 08:00 Contemporary comparison of infective endocarditis caused by *Candida albicans* and *Candida parapsilosis*: a cohort study.**
A Jeronimo (Madrid,ES)
- 08:00 Infective endocarditis after transcatheter aortic valve implantation.**
C Arellano Serrano (Majadahonda,ES)

Learning Objectives:

Categories:

Myocardial and pericardial disease e-posters

Session Number: 323

Chairpersons:

- 08:00** **Combination of arrhythmogenic right ventricular dysplasia with left ventricular non-compaction as a special form of cardiomyopathy: clinic, diagnostics, genetic, natural course**
O Blagova (Moscow,RU)
- 08:00** **Clinical, electrocardiographic and electrophysiologic findings in Danon disease**
- 08:00** **Efficacy and safety of alcohol septal ablation in adolescents and young adults with symptomatic hypertrophic obstructive cardiomyopathy**
D Lawin (Bielefeld,DE)
- 08:00** **Cardiac rupture - the most serious complication of takotsubo syndrome**
- 08:00** **Noncompact myocardium with dilated phenotype: differences in comparison with other forms of dilated cardiomyopathy..**
O Blagova (Moscow,RU)
- 08:00** **Acute coronary syndrome with non-obstructive coronary arteries (ACS-NOCA in patients with hypertrophic cardiomyopathy**
A Trongtorsak (Evanston,US)
- 08:00** **The contemporary study of acute myocarditis in south africa - CAMISA**
KM Hassan (Cape Town,ZA)
- 08:00** **Comparative efficacy and safety of mycophenolate mofetil and azathioprine in combination with corticosteroids in the treatment of lymphocytic myocarditis**
O Blagova (Moscow,RU)
- 08:00** **Bariatric surgery is associated with lower risk of acute cardiovascular events in patients with obesity and hypertrophic cardiomyopathy**
- 08:00** **Survival analysis in hypertrophic cardiomyopathy caused by the three most common pathogenic TPM1 variants**
A Lamounier Junior (- ,BR)
- 08:00** **Improved cardiac outcomes by early treatment with angiotensin-converting enzyme inhibitors in becker muscular dystrophy**
L Motte (Paris,FR)
- 08:00** **Comprehensive proteomics profiling identifies patients with late gadolinium enhancement on cardiac magnetic resonance imaging in the hypertrophic cardiomyopathy population**
B Lander (- ,US)
- 08:00** **Left ventricular hypertrophy secondary to Fabry disease: mechanical dispersion and arrhythmic burden**
R Menezes Fernandes (Loule,PT)
- 08:00** **How to distinguish between hypertrophic cardiomyopathy and left ventricular hypertrophy secondary to Fabry disease?**
R Menezes Fernandes (Loule,PT)
- 08:00** **Twist, left ventricular longitudinal and circumferential strain are early markers of cardiac involvement in Fabry disease**
R Menezes Fernandes (Loule,PT)
- 08:00** **Neutrophil-to-lymphocyte ratio and monocyte-to-lymphocyte ratio predict length of hospital stay in acute myocarditis**

- 08:00 Amyloid deposits and fibrosis on left ventricular endomyocardial biopsy correlate with extracellular volume in cardiac amyloidosis**
A Aimo (Pisa,IT)
- 08:00 Left atrial strain in cardiac amyloidosis**
I Fabiani (Pisa,IT)
- 08:00 Fragmented qrs as a predictor of cardiac events in patients with cardiac sarcoidosis**
S Ogura (Okayama,JP)
- 08:00 Coronary microvascular dysfunction in hypertrophic cardiomyopathy - impact from tissue characteristics to clinical manifestations**
S Aguiar Rosa (Lisbon,PT)
- 08:00 Insights from cardiopulmonary exercise testing in pediatric patients with hypertrophic cardiomyopathy.**
G Gallo (Rome,IT)
- 08:00 Symptomatology, prognosis, and clinical findings of COVID 19 induced myocarditis: a systematic review** Withdrawn
- 08:00 Orthostatic hypotension in hereditary ATTR Val30Met amyloidosis: predictors and associated clinical features**
- 08:00 Bone scintigraphy in the diagnosis of transthyretin amyloidosis: a different performance in portuguese hereditary variant?**
- 08:00 Clinical effects of metoprolol in obstructive hypertrophic cardiomyopathy (TEMPO). A randomized, double-blinded, placebo-controlled crossover trial**
A Dybro (Solbjerg,DK)
- 08:00 Association of high serum soluble interleukin 2 receptor levels with risk of adverse events in patients with cardiac sarcoidosis**
Y Kobayashi (Sapporo,JP)
- 08:00 Predictive scoring method for declining left ventricular ejection fraction in hypertrophic cardiomyopathy**
- 08:00 Additive prognostic value of coronary flow and heart rate reserve during vasodilator stress echocardiography in hypertrophic cardiomyopathy**
M Tesic (Belgrade,RS)
- 08:00 Peripheral vascular involvement in transthyretin cardiac amyloidosis. A comparative analysis with AL amyloidosis.**
D Delialis (Athens,GR)
- 08:00 Baseline characteristics of patients with transthyretin amyloid cardiomyopathy enrolled in a tafamidis expanded access programme**
M Rozenbaum (- ,NL)
- 08:00 Reversible increase in stress-associated neurobiological activity on acute phase of Takotsubo syndrome: brain 18F-FDG-PET study**
- 08:00 Cognitive disorders in takotsubo syndrome: incidence, short and long-term outcome. Results from a prospective multi-center registry.**

A Mallardi (Bari,IT)

- 08:00 Cerebrovascular events in takotsubo syndrome: short and long-term outcome. Results from a multicenter-prospective registry.**
A Leopizzi (Bari,IT)
- 08:00 Left ventricular noncompaction and EcoScore: prognostic value of a new echographic risk score**
- 08:00 Head-to-head comparison of NT-proBNP and soluble ST2 for long-term prognosis of patients with hypertrophic cardiomyopathy**
G Cediél Calderon (Badalona,ES)
- 08:00 Demographic characteristics of the 1902 transthyretin amyloid cardiomyopathy patients treated by tafamidis through the French early access program**
O Lairez (Toulouse,FR)
- 08:00 A machine learning-derived electrocardiographic algorithm for the detection of cardiac amyloidosis**
- 08:00 Cardiac manifestations of fabry disease in female patients: a single centre experience**
CU Peter (Nottingham,GB)
- 08:00 Heart rate variability as a biomarker in chronic chagas cardiomyopathy patients with or without concomitant digestive involvement, for prediction of rassi score risk classes**
- 08:00 High-sensitivity T troponin and NT pro B-type natriuretic peptide as predictors of early development of structural heart disease in patients with stage 0 of Chagas disease.**
D Chirino (Buenos Aires,AR)
- 08:00 Prognosis of left ventricular noncompaction with preserved ejection fraction**
G Casas (Barcelona,ES)
- 08:00 Clinical relevance of cardiac magnetic resonance feature tracking derived left ventricular strain in nonischemic dilated cardiomyopathy**
E Pozo Osinalde (Madrid,ES)
- 08:00 Establishment of gene profiling for diagnostics of idiopathic giant cell myocarditis in endomyocardial biopsy**
H Pietsch (Berlin,DE)
- 08:00 Glucocorticoids in myocarditis therapy after COVID-19**
S Cherniuk (Kiev,UA)
- 08:00 Concomitant wild type transthyretin amyloidosis & severe aortic stenosis in elderly Indian population: Pilot study**
AK Singal (New Delhi,IN)
- 08:00 Analysis of characteristics and prognostic impact of phenotypes in hereditary ATTR**
- 08:00 Sudden cardiac death risk stratification in hypertrophic cardiomyopathy: discrepancies persist among guidelines**
FL Scolari (Porto Alegre,BR)

- 08:00 Clinical, laboratory, electrocardiographic and multimodality imaging outcome predictors in cardiac amyloidosis.**
R Fernandez Galera (Vila Real,ES)
- 08:00 Clinical characterisation of hypertrophic cardiomyopathy caused by MYH7 gene variants in children**
V Kadirrajah (- ,GB)
- 08:00 Multilayer global longitudinal strain assessment of subclinical myocardial dysfunction related to insulin resistance**
- 08:00 The role of right ventricular-arterial coupling in cardiac amyloidosis: a comparison between subtypes and with other genetic and non-genetic hypertrophic cardiomyopathies and prognostic consequences**
- 08:00 Left atrial function is impaired in cardiac amyloidosis and other cardiomyopathies with hypertrophic phenotype: haemodynamic correlations, pathophysiological consequences and prognostic implications.**
- 08:00 Long-term cardiopulmonary effects after Covid-19 infection**
J Niebauer (- ,AT)
- 08:00 Genetic overlap of acute myocarditis and inherited cardiomyopathy**
- 08:00 Beta-blocker exposure and long-term survival in patients with transthyretin amyloid cardiomyopathy.**
- 08:00 Natural history of left ventricular hypertrophy in infants of diabetic mothers**
E Monda (Marigliano,IT)
- 08:00 Evaluation of Perugini score and myocardial mass and voltage abnormalities in transthyretine cardiac amyloidosis**
- 08:00 Comprehensive proteomics profiling reveals molecular pathways that are differentially regulated in hypertrophic cardiomyopathy and correlate with clinical markers of disease severity**
YJ Shimada (Fort Lee,US)
- 08:00 Clinical characteristics of patients with hereditary transthyretin mutations primarily associated with cardiomyopathy and other rare transthyretin mutations: insights from a genetic testing programme**
A Keller (Richmond,US)
- 08:00 Role of right ventricular free wall longitudinal strain in prediction outcome in patients with cardiac sarcoidosis**
N Albakaa (- ,JP)
- 08:00 Management strategies for atrial fibrillation and flutter in patients with transthyretin cardiac amyloidosis**
Z Dale (- ,US)
- 08:00 Genetic regulation of myocardial fibrosis in hypertrophic cardiomyopathy**
- 08:00 Early onset of heart failure in Japanese ARVC patients with pathogenic**

desmosomal gene variants

K Sonoda (Suita,JP)

- 08:00 Effect of migalastat on cardiac involvement in Fabry Disease: preliminary results from MAIORA study**
A Camporeale (San Donato Milanese (Milan),IT)
- 08:00 Predictive factors for requiring heart transplantation in patients with hypertrophic cardiomyopathy: data from a referral center**
A Lopez Sainz (Santiago De Compostela,ES)
- 08:00 Quantification of myocardial amyloid deposition in tafamidis-treated patients with transthyretin amyloid cardiomyopathy**
R Rettl (Vienna,AT)
- 08:00 Gender differences in clinical characteristics in wild-type transthyretin amyloidosis cardiomyopathy**
S Takashio (Kumamoto,JP)
- 08:00 Phenotypic presentation trends of transthyretin amyloid cardiomyopathy: are we getting better?**
P Chandrashekar (Portland,US)
- 08:00 Cohort of patients with hypertrophic cardiomyopathy and alpha tropomyosin 1 variants followed up at a national reference center**
R Alvarez Garcia-Roves (Madrid,ES)
- 08:00 Alpha-protein kinase 3 (ALPK3) truncating variants cause an autosomal dominant form of hypertrophic cardiomyopathy**
L Rocha Lopes (Lisbon,PT)
- 08:00 Long term prognosis and cardiovascular complications of patients with systemic sclerosis-related cardiomyopathy**
G Stronati (Agugliano,IT)
- 08:00 Diagnostic utility of genetic testing in restrictive cardiomyopathy a single referral centre experience**
- 08:00 Optimal timing of follow-up cardiac magnetic resonance in patients with acute myocarditis**
M Pieroni (Arezzo,IT)
- 08:00 Cardiac imaging in tafamidis-treatment patients with transthyretin amyloid cardiomyopathy**
R Rettl (Vienna,AT)
- 08:00 Left ventricular noncompaction: the importance of identifying high-risk patients within the scope of left ventricular hypertrabeculation**
JM Viegas (Lisboa,PT)
- 08:00 Correlations between pathological deposition and non-invasive diagnostic modalities like 99mTc-PYP scintigraphy, cardiac magnetic resonance, GLS in patients with transthyretin cardiac amyloidosis.**
- 08:00 Different aortic valve calcium scores by computed tomography scan in patients with severe aortic stenosis and concomitant cardiac amyloidosis.**
G Satri (Bologna,IT)
- 08:00 Comparative utility of 18FDG-PET and CMR in diagnosis of early cardiac sarcoidosis**

M Subramanian (Chennai,IN)

- 08:00 The human cell atlas of the hypertrophic heart reveals impaired inter-cellular cross-talks**
L Nicin (Frankfurt Am Main,DE)
- 08:00 Prevalence of cardiac amyloidosis in patients with unexplained left ventricle hypertrophy**
- 08:00 Diagnostic yield from cardiac gene panel testing for inherited cardiac conditions in a large Irish cohort**
J Murphy (Dublin,IE)
- 08:00 Delays in diagnostic tests used to identify transthyretin amyloid cardiomyopathy (ATTR-CM) in the EU4 + UK**
N Melinis (New York,US)
- 08:00 Functional capacity and gender-related differences in Fabry disease**
- 08:00 Characterization of left atrial geometry and function in patients with non-obstructive hypertrophic cardiomyopathy: a cardiac magnetic resonance imaging study**
L Agoston Coldea (Cluj-Napoca,RO)
- 08:00 Risk predictors and new phenotypes of arrhythmogenic cardiomyopathy**
T Vaikhanskaya (Minsk,BY)
- 08:00 New electrocardiographic capabilities for diagnostic and prognosis of dilated cardiomyopathy**
T Vaikhanskaya (Minsk,BY)
- 08:00 Prognostic significance of cardiac injury in COVID-19 patients with and without coronary artery disease**
- 08:00 High D-dimer levels in patients with Takotsubo syndrome: 2.5 years follow-up**
FG Biccire (Rome,IT)
- 08:00 Clinical features and natural history of RASopathy-associated hypertrophic cardiomyopathy in children**
O Boleti (London,GB)
- 08:00 Development of a risk-score for pericarditis recurrence in patients with a first episode of acute pericarditis**
G Lazaros (Athens,GR)
- 08:00 Prognostic role of cardiac MRI after first episode of acute pericarditis: a long-term follow-up study**
E Conte (Milan,IT)
- 08:00 Beta-blockers to control symptoms in patients with pericarditis**
M Imazio (Udine,IT)
- 08:00 Anti-interleukin 1 agents for the treatment of recurrent pericarditis.**
M Imazio (Udine,IT)
- 08:00 Pericardial disease in patients treated with immune checkpoint inhibitors**
J Gong (- ,US)

- 08:00** **Corticosteroids in tuberculous pericarditis with severe pericardial effusion to avoid constriction: a retrospective study in HIV-negative population**
J Blanco Ferri (La Paz,BO)
- 08:00** **Genetic analysis of NLRP3 in recurrent pericarditis**
C Peet (King's College, London,GB)
- 08:00** **Retrospective comparison of percutaneous balloon pericardiotomy with pericardiocentesis versus pericardiocentesis alone for management of symptomatic pericardial effusions**
C Shirkhodaie (- ,US)
- 08:00** **Health-related quality of life in patients with recurrent pericarditis: results from RHAPSODY, a phase 3 study of rilonacept**
- 08:00** **MicroRNAs as disease specific diagnostic biomarkers for neoplastic aetiology-related and inflammatory-related pericardial fluid effusion**
- 08:00** **Usefulness of CHA2DS2-VASc scoring system for predicting risk of embolism in patients with cardiac tumours: a single-centre study.**
- 08:00** **Malignant cardiac tumors: a single-centre 25-year review**
P Garcia Bras (Lisbon,PT)

Learning Objectives:

Categories:

Congenital heart disease and paediatric cardiology e-posters

Session Number: 324

Chairpersons:

- 08:00 Paediatric/young versus adult patients with congenital long QT syndrome or catecholaminergic polymorphic ventricular tachycardia**
S Lee (Hong Kong,HK)
- 08:00 Persistent hypertension and left ventricular hypertrophy after repair of native coarctation of aorta in adults**
L Shaik (Rochester,US)
- 08:00 Left ventricular global longitudinal strain is superior to ejection fraction for prognostication in ebstein anomaly**
J Devara (Rochester,US)
- 08:00 A systematic review and meta-analysis of percutaneous closure vs surgical closure in adults with secundum atrial septal defects and pulmonary hypertension**
- 08:00 Single-cell analysis of the human postnatal myocardium interpreted the intervention mechanism for congenitally corrected transposition of the great arteries**
J Ren (- ,CN)
- 08:00 Trends in mortality of adult congenital heart disease patients in the last 4 decades**
T Mano (Ajuda, Lisboa,PT)
- 08:00 The coronary arteries in adults after arterial switch: a systematic review**
L Engele (- ,NL)
- 08:00 Comprehensive non-invasive and invasive functional assessment of anomalous coronary arteries with anatomical high-risk features**
MR Bigler (Bern,CH)
- 08:00 Long term outcomes for adults with complete atrioventricular septal defects**
S Seitler (London,GB)
- 08:00 Unrepaired patent ductus arteriosus in adults: presentation, closure and cardiac remodelling**
- 08:00 The adding value of fluid challenge and balloon occlusion tests in patients with atrial septal defect**
M D'Alto (Naples,IT)
- 08:00 Impact of covid-19 in adult patients with congenital heart disease**
I Cardoso (Lisbon,PT)
- 08:00 Aortic Z-scores in paediatric patients with marfan syndrome and other hereditary thoracic aortic diseases**
M Eisfeld (Berlin,DE)
- 08:00 Atrioventricular-block necessitating ventricular pacing after tricuspid valve surgery in patients with a systemic right ventricle: long term follow-up.**
M Nederend (Leiden,NL)
- 08:00 Mortality in patients with isolated congenital complete atrioventricular block in Sweden: a register-based, nationwide cohort study**
Y Shao (Gothenburg,SE)
- 08:00 Left ventricular hypertrabeculation in Ebstein anomaly - a clinically significant or irrelevant problem?**
A Cieplucha (Poznan,PL)

- 08:00 A comparison of ECG-based home monitoring devices in adults with congenital heart disease**
- 08:00 Short-term prognostic value of heart failure diagnosis in a contemporary cohort of patients with ACHD**
- 08:00 Heart failure hospitalization in adult patients with congenital heart disease: risk factors for repeated admissions.**
H Scherrenberg (Houthalen,BE)
- 08:00 The world upside down - after 20 years follow-up of dextro-transposition of the great arteries**
R Alves Pinto (Porto,PT)
- 08:00 Non-vitamin K antagonist oral anticoagulants in adult congenital heart disease: a single-center study**
P Garcia Bras (Lisbon,PT)
- 08:00 Anomalous origin of the right coronary artery with interarterial course: red flag or innocent bystander?**
- 08:00 Hematologic abnormalities as a marker of cirrhosis after Fontan completion**
A Scandinaro (- ,US)
- 08:00 Acute heart failure in congenital heart disease in adults: a single-institution study in Latin-America.**
- 08:00 Plasma metabolomics in perioperative period of defect repair in patients with pulmonary arterial hypertension associated with congenital heart disease**
Y Yan (Munich,DE)
- 08:00 Developmental changes in bicuspid aortic valve and associated aortopathy in small children**
J Norsk (Copenhagen S,DK)
- 08:00 Valve phenotype and likelihood of surgery in patients with bicuspid aortic valve**
S Wulffeld (- ,DK)
- 08:00 Screening for Fontan-associated liver disease: are we doing enough?**
V Tsoi (- ,GB)
- 08:00 Aortic stenosis: correlation of prenatal echocardiography to postmortem histology**
- 08:00 Right ventricular function in Marfan patients remains stable despite (multiple) cardiac interventions**
M Mihalj (Bern,CH)
- 08:00 Eisenmenger syndrome: is it the same entity in adulthood and pediatric age?**
J Playan Escribano (Madrid,ES)
- 08:00 Pulmonary arterial hypertension associated with congenital heart disease in children: clinical characterisation, outcomes and changes in demographics over time**
A Constantine (London,GB)

08:00

Clinical decision making in frequently encountered anomalous aortic origin of coronary arteries, the impact of IVUS

DBH Verheijen (Leiden,NL)

Learning Objectives:

Categories:

Pulmonary circulation, pulmonary embolism, right heart failure e-posters

Session Number: 325

Chairpersons:

- 08:00 Higher circulating gut microbiota-dependent metabolite trimethylamine N-oxide plays an adverse effect on pulmonary hypertension**
Y Yang (- ,CN)
- 08:00 The novel noninvasive method for prediction of long-term specific therapy efficacy in patients with IPAH and inoperable CTEPH**
- 08:00 Early and long term prognostic accuracy of 4 acute pulmonary embolism mortality risk scores**
L Oliveira (Atalhada,PT)
- 08:00 Novel genetic and molecular pathways in pulmonary arterial hypertension associated with connective tissue disease**
I Hernandez Gonzalez (Madrid,ES)
- 08:00 Role of echocardiography to avoid misclassification of pulmonary hypertension associated with left heart disease as precapillary pulmonary hypertension.**
J Grignola Rial (Montevideo,UY)
- 08:00 Survival of patients with pulmonary arterial hypertension and chronic thromboembolic pulmonary hypertension listed for lung transplantation**
I Magnani (Bologna,IT)
- 08:00 Role of cardiac magnetic resonance in stratifying the prognosis of patients with pulmonary arterial hypertension**
A De Lorenzis (Surbo,IT)
- 08:00 Echocardiographic predictors of low risk haemodynamic parameters in patients with pulmonary arterial hypertension**
M Rotunno (Bologna,IT)
- 08:00 The biventricular dysfunction evaluation in the different types of pulmonary hypertension**
- 08:00 Real-world, very long-term follow up survival of incident patients with pulmonary hypertension**
C Ferreira (Coimbra,PT)
- 08:00 Risk assessment tool implementation in congenital heart disease associated pulmonary arterial hypertension**
Y Yaylali (Denizli,TR)
- 08:00 BMPR2 variants in pulmonary arterial hypertension. Are they really worrisome?**
A Cruz Utrilla (Madrid,ES)
- 08:00 Prevalence and clinical impact of atrioventricular conduction disease in patients with idiopathic pulmonary arterial hypertension**
A Reddy (Cambridge,GB)
- 08:00 Circulating CD4+T/Methylation Signatures of Network-oriented SOCS3, ITGAL, NFIC, NCOR2, PGK1 Genes Associate with Hemodynamics in Pulmonary Arterial Hypertension Patients**
G Benincasa (Cetara,IT)
- 08:00 Improving risk stratification of pulmonary hypertension patients**
JP Dias Ferreira Reis (Lisboa,PT)
- 08:00 Genetic background in pediatric pulmonary arterial hypertension. Should we change the current recommendations for genetic testing?**

- 08:00 Comparison of 2-years follow-up of optimal medical therapy versus balloon pulmonary angioplasty for inoperable chronic thromboembolic pulmonary hypertension**
AR Pereira (Almada,PT)
- 08:00 Complications of balloon pulmonary angioplasty for chronic thromboembolic pulmonary disease according to the classification proposed by the 6th world symposium on pulmonary hypertension**
AR Pereira (Almada,PT)
- 08:00 Contrast-induced nephropathy after staged balloon pulmonary angioplasty: lower risk compared with left-sided cardiac procedures**
AR Pereira (Almada,PT)
- 08:00 One-year follow-up of continuous aspiration mechanical thrombectomy for the management of intermediate-high and high-risk pulmonary embolism: what is the line between utility and futility?**
AR Pereira (Almada,PT)
- 08:00 Epigenetic effects of hypoxia on pathological changes of smooth muscle cells from PAH with BMPR2 mutation**
- 08:00 Efficacy and safety of early switch to oral anticoagulation in acute intermediate-risk pulmonary embolism**
E Klok (Leiden,NL)
- 08:00 Comparison of D-dimer level measured on the third day of hospitalization with D-Dimer level in predicting in-hospital mortality in COVID-19 patients**
T Cinar (Istanbul,TR)
- 08:00 Right ventricular myocardial work characterisation in patients with pulmonary hypertension: association with invasive haemodynamic parameters**
SC Butcher (Leiden,AU)
- 08:00 High-risk acute pulmonary embolism in a Portuguese centre: are we doing enough?**
M Martinho (Lisboa,PT)
- 08:00 Reperfusion in high-risk acute pulmonary embolism: can the PESI score predict outcomes?**
M Martinho (Lisboa,PT)
- 08:00 A network meta-analysis on the vasomodulators for portopulmonary hypertension**
N Chew (Singapore,SG)
- 08:00 Use of mechanical pulmonary reperfusion and fibrinolysis in acute massive pulmonary embolism requiring extracorporeal membrane oxygenation support: a systematic review and meta-analysis**
R Chopard (Besancon,FR)
- 08:00 Available bleeding scoring systems poorly predict major bleeding in the acute phase of pulmonary embolism**
N Meneveau (Besancon,FR)
- 08:00 An original risk score to predict early major bleeding in acute pulmonary embolism: The Syncope, Anemia, Renal Dysfunction (PE-SARD) bleeding score**
R Chopard (Besancon,FR)
- 08:00 Progression of liver fibrosis in pulmonary arterial hypertension**

08:00	Echocardiographic probability of pulmonary hypertension according to the direct and indirect signs: a validation study M D'Alto (Naples,IT)	
08:00	Racial disparities in renal outcomes of pulmonary hypertension hospitalizations: Analysis of 2016 to 2018 National Inpatient Sample H Thyagaturu (Cooperstown,US)	
08:00	Impact of left heart disease risk factors on risk stratification and treatment response in pulmonary arterial hypertension K Kearney (Darlinghurst,AU)	
08:00	The longitudinal use of EmPHasis-10 and CAMPHOR questionnaire health-related quality of life scores in patients with pulmonary arterial hypertension and chronic thromboembolic pulmonary hypertension P Hendriks (Rotterdam,NL)	
08:00	The results of the balloon pulmonary angioplasty program in chronic thromboembolic pulmonary hypertension patients in a national and European reference center resemble those of Japanese series M Velazquez Martin (Madrid,ES)	
08:00	Isolated exercise-induced pulmonary hypertension is associated with clinical worsening and poorer immunological control in hiv patients R Madonna (Pisa,IT)	
08:00	The inflammation influence on pathological remodeling of pulmonary arteries in monocrotaline-induced pulmonary hypertension in rats I Adzerikho (Minsk,BY)	
08:00	The usefulness of PRECISE-DAPT Score to predict RVD and mortality in patients with acute pulmonary embolism	
08:00	Rivaroxaban versus vitamin k antagonist for the secondary prevention of recurrent thrombosis in antiphospholipid syndrome: a systematic review and meta-analysis	Withdrawn
08:00	Current use of catheter directed treatment of acute PE in Europe: results of survey of EAPCI and ESC Working Group on Pulmonary Circulation and Right Ventricular Function	
08:00	Cavin-1 modulates BMP/Smad signaling through the interaction of Caveolin-1 with BMPRII in pulmonary artery endothelial cells S Tomita (Kyoto,JP)	
08:00	Risk factors of recurrence and major bleeding in patients with intermediate-risk for recurrence of venous thromboembolism: from the COMMAND VTE Registry Y Yamashita (Kyoto City,JP)	
08:00	Autoimmune disorders and venous thromboembolism: A report from the COMMAND VTE Registry Y Yamashita (Kyoto City,JP)	
08:00	Atrioventricular plane displacement and regional contribution to stroke volume to predict outcome in pulmonary arterial hypertension A Lindholm (Lund,SE)	

- 08:00** **Changes in cMRI parameters following a switch to riociguat from phosphodiesterase type 5 inhibitors (PDE5i) in patients with pulmonary arterial hypertension: a REPLACE substudy**
- 08:00** **Effectiveness and safety of DOACs for the prevention of recurrent VTE: a prospective cohort study**
- 08:00** **Heart rate variability in patients with pulmonary hypertension as assessed with long-term continuous cardiac monitoring correlates with other established risk assessment parameters**
- 08:00** **Decline in overall pulmonary embolism-related mortality and increasing prevalence of cancer-associated events in Veneto (Italy), 2008-2019**
L Valerio (Mainz,DE)
- 08:00** **Effectiveness and safety of apixaban vs warfarin among older venous thromboembolism patients stratified by race**
- 08:00** **Effectiveness and safety of apixaban vs warfarin among older venous thromboembolism patients: a subgroup analysis of age**
- 08:00** **Effectiveness and safety of apixaban vs warfarin among venous thromboembolism patients using five US databases: a subgroup analysis of chronic liver disease**
- 08:00** **Pulmonary artery capacitance a simple and novel prognostic variable in acute pulmonary embolism**
J A Quintero-Martinez (Rochester,US)
- 08:00** **Covid-19 morbidity and outcomes among the patients observed in the pulmonary hypertension reference center**
Y Sirenko (Kiev,UA)
- 08:00** **Predictors of mortality in patients with intermediate risk pulmonary embolism**
M Teterina (Moscow,RU)
- 08:00** **Accuracy of echocardiographic doppler measures of pulmonary hypertension compared with right heart catheterisation in a real world population referred to a specialist centre**
O Slegg (- ,GB)
- 08:00** **Door-to-thrombolytic time: a commonly neglected prognostic factor in pulmonary embolism**
- 08:00** **A new ratio with PaO₂/FiO₂ and pulmonary arterial systolic pressure in the prognosis of intermediate high risk pulmonary embolism**
M Pires (Viseu,PT)
- 08:00** **Modified FAST score as a predictor of fibrinolysis in normotensive patients with acute pulmonary embolism.**
V Devesa Neto (Viseu,PT)
- 08:00** **The Birmingham Black Country Venous Thromboembolism (BBC-VTE) registry of outcomes of venous thromboembolism patients admitted to hospital**
A Sanders (- ,GB)

- 08:00** **Effects of varying shear stress profiles on the regulation of pulmonary artery endothelial cell gene expression: a focus on selected mediators of vascular tone, inflammation and angiogenesis**
- 08:00** **Predictors of unfavourable outcome in clinically stable, low risk acute pulmonary embolism patients (sPESI 0)**
Bk Karolak (Warszawa,PL)
- 08:00** **In-hospital predictors of 60-day readmission in COVID-19 patients**
- 08:00** **Subsegmental pulmonary embolism: yet another case for being a medical conservative**
J Sousa (Coimbra,PT)
- 08:00** **Circulating proteomic biomarkers related to the development of chronic thromboembolic pulmonary hypertension in patients with acute pulmonary embolism**
R Quan (Beijing,CN)
- 08:00** **Trends and outcomes of acute pulmonary embolism transfers: a nationwide cohort sample 2008-2018.**
A Elkaryoni (- ,US)
- 08:00** **Diagnostic potential of a novel fluoroscopic video analysis workstation (Radwisp) in patients with acute pulmonary thromboembolisms**
- 08:00** **Response to anticoagulation in chronic thromboembolic pulmonary hypertension**
- 08:00** **Cardiac computed tomography tissue tracking of the right ventricle longitudinal strain in patients with pulmonary thromboembolism.**
- 08:00** **Increased 8-isoprostane and growth differentiation factor 15 concentrations as novel markers of post-pulmonary embolism syndrome**
- 08:00** **The right ventricular-pulmonary circulation coupling in ischaemic heart disease; a stress echocardiography study**
A Vrettos (Amersham,GB)
- 08:00** **Association between non-O blood group and spontaneous abortion in women with inherited thrombophilia**
A Poretto (Padova,IT)
- 08:00** **Hemodynamic effects of balloon pulmonary angioplasty for the treatment of total and subtotal pulmonary artery occlusions in inoperable chronic thromboembolic pulmonary hypertension.**
J Stepniewski (Krakow,PL)
- 08:00** **Usefulness of transthoracic echocardiography for pulmonary artery aneurysm screening in patients with pulmonary arterial hypertension.**
M Guisasola Cienfuegos (Madrid,ES)
- 08:00** **Pulmonary arterial hypertension associated with congenital heart disease in children and adults: knowing the present to imagine the future.**
J Playan Escribano (Madrid,ES)

- 08:00** **The thromboxane receptor antagonist NTP42 improves haemodynamics, inhibits remodelling, and restores function within the cardiopulmonary system in preclinical pulmonary arterial hypertension models**
E Mulvaney (- ,IE)
- 08:00** **TAPSE or right-to-left ventricle diameter ratio at echocardiography to predict death in patients with acute pulmonary embolism: a meta-analysis**
LA Cimini (Perugia,IT)
- 08:00** **Exhaled air analysis for pulmonary arterial hypertension fingerprints identification - first step to standardization**
A Swinarew (Chorzow,PL)
- 08:00** **Role of heparin prophylaxis at different doses in patients with COVID-19 and respiratory failure: a systematic review and meta-analysis**
MC Vedovati (Perugia,IT)
- 08:00** **Passive leg raising: can it help in the diagnosis of pulmonary hypertension due to left heart disease.**
A Volkov (Moscow,RU)
- 08:00** **Safety and efficacy of percutaneous catheter-directed treatment for intermediate-high risk pulmonary embolism.**
E Rumiz Gonzalez (Valencia,ES)
- 08:00** **Impact of routine screening on detection, severity and outcome of pulmonary arterial hypertension in systemic sclerosis**
H Fayed (London,GB)

Learning Objectives:

Categories:

Imaging heart failure with preserved ejection fraction

Session Number: 326

Chairpersons: B Cosyns (Brussels, BE) - S Petersen (London, GB)

09:30 State-of-the-art in imaging pathophysiology of heart failure with preserved ejection fraction

B Borlaug (Rochester,US)

09:45 Automated non-invasive pressure-volume loop analysis of cardiac aging in a large cohort of healthy community dwellers

10:00 Comprehensive diastolic exercise stress echocardiography in heart failure with preserved ejection fraction

Learning Objectives:

Categories: Abstract-Based Programme

Imaging for risk stratification of native valvular regurgitation

Session Number: 327

Chairpersons: M Garbi (Cambridge, GB) - R Fontes Carvalho (Porto, PT)

09:30 What's new in Imaging for mitral and tricuspid valve regurgitation

P Lancellotti (Liege,BE)

09:45 Prognostic value of left atrial function in patients with severe primary mitral regurgitation undergoing mitral valve repair

J Stassen (Hasselt,BE)

10:00 Echocardiographic predictors of the effectiveness of interventional edge-to-edge repair in tricuspid valve regurgitation

B Goebel (Jena,DE)

Learning Objectives:

Categories: Abstract-Based Programme

Highlights from the Young: artificial intelligence in imaging

Session Number: 328

Chairpersons: J Narula (New York, US) - M Westwood (London, GB)

- 07:15 Deep learning-based plaque quantification from coronary computed tomography angiography: external validation and comparison with intravascular ultrasound**
A Lin (Los Angeles,US)
- 07:24 Low endothelial shear stress, microcalcification activity and high-risk plaque features: Merging computational flow modelling, OCT and 18F-NaF PET/CT**
B Doyle (- ,AU)
- 07:33 Machine-learning with 18F-sodium fluoride PET and quantitative plaque analysis on CT angiography for the future risk of myocardial infarction**
- 07:42 Automated quantification of epicardial adipose tissue on CCTA via deep-learning detection of the pericardium: clinical implications**
H West (Oxford,GB)
- 07:51 A fully automatic machine-learning algorithm reliably quantifies scar on CMR in post-infarct patients and outperforms humans in predicting arrhythmic events in the international derivate cohort**

Learning Objectives:

Categories: Abstract-Based Programme

COVID-19 insights from non-invasive imaging: what have we learned one year later?**Session Number: 329**Chairpersons: L Badano (Padova, IT) - P Nihoyannopoulos (London, GB)

- 20:15 Epicardial fat volume predicts clinical severity of COVID-19 patients**
MA Erdol (Ankara,TR)
- 20:24 Cardiac function is normal in most patients recovered from COVID-19**
J Tangen (Oslo,NO)
- 20:33 Prospective observational case-control study of cardiovascular abnormalities six months following mild COVID-19**
J Artico (London,GB)
- 20:42 COVID-19 patients present impaired endothelial glycocalyx, vascular dysfunction and myocardial deformation resembling those observed in hypertensives four months after infection.**
- 20:51 Longitudinal trajectory of cardiac magnetic resonance and cardiopulmonary exercise testing findings in moderate to severe COVID-19 and association with symptoms.**
M Cassar (Oxford,GB)

Learning Objectives:

Categories: Abstract-Based Programme, COVID-19

Stress echocardiography: key imaging test in clinical practice**Session Number: 330**Chairpersons: R Sicari (Pisa, IT) - R Senior (London, GB)

- 20:15 Prognostic value of ABCDE stress echocardiography**
Q Ciampi (Benevento,IT)
- 20:24 Fully automated left ventricular ejection fraction and global longitudinal strain predicts obstructive coronary artery disease in patients undergoing stress echocardiography: a multi-centre study.**
J O'Driscoll (Canterbury,GB)
- 20:33 Pulmonary congestion during exercise stress echocardiography in ischaemic, heart failure and valvular patients**
E Merli (Faenza,IT)
- 20:42 Noninvasive functional testing in ANOCA: hyperventilation-exercise study for spasm (SESPASM)**
- 20:51 Blunted heart rate reserve with dobutamine stress echocardiography predicts outcome in diabetes and/or chronic kidney disease.**
C C De A Bellagamba (Porto Alegre,BR)

Learning Objectives:

Categories: Abstract-Based Programme

New imaging insights into valvular heart disease**Session Number: 331**Chairpersons: E Galli (Rennes, FR) - P Bartko (Vienna, AT)

07:15 An in-vitro model of stiffened aortic valves to develop an iso-stiffness-lines graph for severity evaluation aortic stenosis

07:24 Assessment of intracardiac flow dynamics for the evaluation of patients with aortic stenosis
A Strangio (Gioia Tauro, IT)

07:33 Imaging and circulating biomarkers: a united approach for secondary tricuspid regurgitation

07:42 Effect of interventional edge-to-edge repair in tricuspid regurgitation on ring dimensions
B Goebel (Jena, DE)

07:51 Glycoprotein IIb/IIIa receptor targeted PET/CT imaging: A novel diagnostic tool for detecting bioprosthetic valve thrombosis

Learning Objectives:

Categories: Abstract-Based Programme

Cardiac computed tomography: from registries to new applications in coronary artery disease and beyond**Session Number: 332**Chairpersons: S Schroeder (Goeppingen, DE) - A Rossi (Zurich, CH)

- 20:15** **Rising utilization of coronary CT angiography across Europe over the last decade: Insights from a large prospective European registry**
- 20:24** **Association of coronary artery calcium score groups with qualitative and quantitatively assessed adverse plaque**
- 20:33** **Pericoronary adipose tissue attenuation, low-attenuation plaque burden and 5-year risk of myocardial infarction**
E Tzolos (Edinburgh,GB)
- 20:42** **Machine learning from quantitative coronary computed tomography angiography predicts ischemia and impaired myocardial blood flow**
A Lin (Los Angeles,US)
- 20:51** **Impact of left atrial strain assessed with feature-tracking computed tomography on long-term mortality after transcatheter aortic valve implantation**
K Hirasawa (Leiden,NL)

Learning Objectives:

Categories: Abstract-Based Programme

Hot topics in cardiac magnetic resonance**Session Number: 333**Chairpersons: R Manka (Zurich, CH) - E Perez-David (Majadahonda, ES)

- 07:15 Human hyperpolarized 1-13C pyruvate CMR and adenosine stress test**
SH Joergensen (Hjoerring,DK)
- 07:24 Evolution of myocardial tissue injury over a decade after ST-elevation myocardial infarction: a cardiac magnetic resonance study**
- 07:33 Coronary microvascular dysfunction is only detectable in type 2 diabetes in the presence of obesity**
A Chowdhary (Wakefield,GB)
- 07:42 Left atrial strain for predicting arrhythmia recurrence after atrial fibrillation ablation: cardiac magnetic resonance rapid strain vs. feature tracking strain**
LHG Hopman (Amsterdam,NL)
- 07:51 Abnormal aortic hemodynamics at predilection sites for dissection in patients with Marfan syndrome: a 4D flow study**

Learning Objectives:

Categories: Abstract-Based Programme

I want to learn more about the most recent research results from
multimodality imaging

Session Number: 334

Chairpersons: R Buechel (Zurich, CH) - S Mohareem-Elgamal (Liverpool, GB)

- 07:15** **Longitudinal strain measurement by 3D modelling from cine CMR: feasibility and comparison to 2D speckle tracking echocardiography**
D Zhao (Auckland,NZ)
- 07:24** **Adoption of a new automated optical coherence tomography software to obtain a lipid plaque spread-out plot**
FG Biccire (Rome,IT)
- 07:33** **Prevalence and outcomes of cardiac amyloidosis in all-comer referrals for bone scintigraphy**
C Nitsche (Vienna,AT)
- 07:42** **Diagnostic and prognostic contribution of 99mTc-DPD scintigraphy in transthyretin V30M cardiac amyloidosis**
MDC Azevedo Coutinho (Lisboa,PT)
- 07:51** **Mechanistic insights from a multiparametric magnetic resonance imaging study regarding the role of sodium glucose co-transporter 2 inhibitors**
S Thiru (Wilmslow,GB)

Learning Objectives:

Categories: Abstract-Based Programme

Congress committee e-posters choice in imaging

Session Number: 335

Chairpersons:

V Delgado (Leiden, NL) - R Buechel (Zurich, CH) - JU Voigt (Leuven, BE) - L Sade (Ankara, TR) - B Gerber (, CH) - M Marwan (Erlangen, DE) - R Blankstein (Boston, US)

- 08:00** **Right ventricle morphological and functional phenotypes in heart failure with reduced ejection fraction: from pathophysiology to prognostic significance**
- 08:00** **Impact of endocardial leads on the effectiveness of interventional edge-to-edge repair of tricuspid regurgitation**
B Goebel (Jena,DE)
- 08:00** **Derivation of in vivo pressure-volume loops for post-heart transplant patients using real-time 3D echocardiography and left ventricular catheterisation**
- 08:00** **RV free wall longitudinal strain as an independent predictor of survival in wtATTR-CA patients**
TS Tan (Rochester,US)
- 08:00** **Pulmonary congestion during exercise stress echocardiography in hypertrophic cardiomyopathy**
ED Palinkas (Szeged,HU)
- 08:00** **Visualization of fibroblast activation after myocardial infarction using 68Ga-FAPI-PET**
J Kupusovic (Essen,DE)
- 08:00** **Coronary computed tomography angiography vs.standard of care for evaluation of NSTEMI-ACS; a systematic review and meta-analysis.**
- 08:00** **The atherosclerosis profile by coronary CTA compared to the coronary artery calcium score (CACS) in a young symptomatic high-risk population between 19 and 49 years**
- 08:00** **Incorporating coronary calcification into pretest assessment of the likelihood of coronary artery disease: validation and recalibration of a new diagnostic tool**
P Lopes (Lisbon,PT)
- 08:00** **The valve uptake index: a new measure in [18F]FDG PET/CT for the diagnosis of prosthetic valve endocarditis**
A Roque (Barcelona,ES)
- 08:00** **Pericoronary adipose tissue attenuation index (FAI) - A new imaging biomarker and its diagnostic and prognostic utility: A systematic review and meta-analysis**
M Sagris (Piraeus,GR)
- 08:00** **Impact of left ventricular fibrosis and longitudinal systolic strain on outcomes in low gradient aortic stenosis**
M Fukui (Minneapolis,US)
- 08:00** **Left atrial remodeling and cerebrovascular disease assessed by magnetic resonance imaging in patients undergoing continuous heart rhythm monitoring**
L Bertelsen (Copenhagen,DK)
- 08:00** **Prognostic value of baseline versus 6-month follow infarct size in patients with reperfused STEMI**
F Valente (Barcelona,ES)
- 08:00** **Myocardial tissue phenotyping by radiomic features of native T1 maps and machine learning enhances disease detection and classification**
A Antonopoulos (Athens,GR)
- 08:00** **C-reactive protein velocity predicts microvascular pathology after acute ST-**

elevation myocardial infarction

- 08:00 Hepatic t2-times on cardiovascular magnetic resonance imaging reflect liver fibrosis and predict outcome in an all-comer cohort**
- 08:00 Myocardial work still reflect function while strain simply measure deformation when afterload increases**
- 08:00 Utility of volume-strain loops in diastolic function assessment of patients with hypertrophic cardiomyopathy.**
E Pagourelias (Thessaloniki,GR)
- 08:00 Speckle tracking-derived left atrial stiffness predicts adverse events after successful electrical cardioversion**
K Kupczynska (Lodz,PL)
- 08:00 Automated left ventricular dimension assessment using artificial intelligence**
C Stowell (Bromley,GB)
- 08:00 Sequential left ventricular electro-mechanical changes in presence of left bundle branch block**
- 08:00 Myocardial stiffness assessed by natural shear wave elastography is related to pressure-volume loop derived parameters**
S Bezy (Leuven,BE)
- 08:00 Left atrial appendage perimeter ostium evaluation by cardiac CT utilizing 3mensio technology for watchman implantation**
- 08:00 Clinical impact of left atrial appendage filling defects in patients undergoing transcatheter aortic valve implantation**
- 08:00 Calcified versus non-calcified plaque volume fraction in patients with coronary artery disease and their association with outcome**
JH Kuneman (Leiden,NL)
- 08:00 Effect of diabetes mellitus on coronary plaque characteristics and progression by serial Coronary Computed Tomography Angiography (CCTA)**
S Lakshmanan (- ,US)
- 08:00 Computed tomography-derived characterisation of pericoronary, epicardial and paracardial adipose tissue and its association with myocardial ischemia as assessed by computed and invasive fractional flow**
M Goeller (Nuremberg,DE)
- 08:00 Predictors of CT-derived FFR in patients with suspected CAD beyond severity of coronary stenosis**
- 08:00 Clinical characteristics and in-hospital outcomes of patients coinfectd with Chagas disease and SARS-CoV-2**
- 08:00 Impact of vascular morphology and plaque characteristics on computed tomography derived fractional flow reserve in early stage coronary artery disease**

T Tsugu (Liege,BE)

08:00 Deep learning for automatic calcium scoring in population based cardiovascular screening

M Vonder (Groningen,NL)

08:00 Effects of left ventricular mass index on computed tomography derived fractional flow reserve in significant obstructive coronary artery disease

T Tsugu (Liege,BE)

Learning Objectives:

Categories: Abstract-Based Programme

**Guidelines in Practice: management of the patient with asymptomatic
chronic coronary syndrome**

Session Number: 340

Chairpersons: H Nef (Giessen, DE) - J Oldgren (Uppsala, SE)

- 08:00** **An asymptomatic patient with positive treadmill test during screening for life insurance and significant proximal LAD disease in coronary CT angiography: case presentation.**
A Saraste (Turku,FI)
- 08:15** **An asymptomatic patient with positive treadmill test during screening for life insurance and significant proximal LAD disease in coronary CT angiography: what do the guidelines say?**
D Capodanno (Catania,IT)
- 08:30** **An asymptomatic patient with positive treadmill test during screening for life insurance and significant proximal LAD disease in coronary CT angiography: how to implement the guidelines and take-home message.**
D Hasdai (Petah-Tikva,IL)

Learning Objectives:

Categories: Live Q&A

Great Debate: is revascularisation primarily intended for chronic coronary syndrome patients with symptoms refractory to medical therapy?**Session Number: 341**Chairpersons: C Hamm (Bad Nauheim, DE) - V Kunadian (Newcastle Upon Tyne, GB)

- 12:00** **Revascularisation is primarily intended for chronic coronary syndrome patients with symptoms refractory to medical therapy: pro.**
R Al-Lamee (London,GB)
- 12:15** **Revascularisation is primarily intended for chronic coronary syndrome patients with symptoms refractory to medical therapy: con.**
- 12:30** **Great Debate: is revascularisation primarily intended for chronic coronary syndrome patients with symptoms refractory to medical therapy? – discussion.**
P Juni (Toronto,CA)

Learning Objectives:

Categories: Live Q&A

Nonobstructive coronary artery disease: why bother?

Session Number: 342

Chairpersons: Y Appelman (Amsterdam, NL)

- 09:30 Nonobstructive coronary artery disease: underappreciated and misunderstood.**
J Escaned (Madrid,ES)
- 09:41 Nonobstructive coronary artery disease: vulnerable plaque is a volcano waiting to explode.**
F Crea (Roma,IT)
- 09:52 Nonobstructive coronary artery disease: diagnosis and treatment.**
CN Bairey Merz (Los Angeles,US)
- 10:03 Nonobstructive coronary artery disease: why bother? – discussion.**
U Sechtem (Stuttgart,DE)

Learning Objectives:

Categories: Live Chat

Spontaneous coronary artery dissection in STEMI

Session Number: 343

Chairpersons: S Hayes (Rochester, US)

- 09:30 STEMI with suspected spontaneous coronary artery dissection: case presentation.**
D Adlam (Loughborough,GB)
- 09:41 STEMI with suspected spontaneous coronary artery dissection: how I would treat.**
M Gilard (Brest Cedex,FR)
- 09:52 STEMI with suspected spontaneous coronary artery dissection: how I did treat.**
D Adlam (Loughborough,GB)
- 10:03 Spontaneous coronary artery dissection in STEMI – discussion.**
J Saw (Vancouver,CA)

Learning Objectives:

Categories: Live Chat

Meet the Experts: difficult decisions in management of acute coronary syndromes

Session Number: 344

Chairpersons: S Schuepke (Munich, DE) - B Ibanez (Madrid, ES)

- 12:00 Nonculprit artery revascularisation in STEMI: why, when, and when not?**
SR Mehta (Hamilton,CA)
- 12:15 DAPT in NSTEMI-ACS: what, when and for how long?**
R Colleran (Dublin,IE)
- 12:30 Meet the Experts: difficult decisions in management of acute coronary syndromes – discussion.**
J ten Berg (Nieuwegein,NL)

Learning Objectives:

Categories: Live Q&A

How to triage the patient with suspected NSTE-ACS**Session Number: 345**Chairpersons: JP Collet (Paris, FR) - E Barbato (Napoli, IT)

08:00 **How to triage the patient with suspected NSTE-ACS: biomarkers.**
M Rubini Gimenez (Leipzig,DE)

08:15 **How to triage the patient with suspected NSTE-ACS: risk scores and clinical assessment.**
S James (Uppsala,SE)

08:30 **How to triage the patient with suspected NSTE-ACS – discussion.**
J Mehilli (Munich,DE)

Learning Objectives:

Categories: Live Q&A

**Meet the Experts: cardiovascular catastrophes in critical care –
advanced therapies in acute myocarditis and electrical storm**

Session Number: 346

Chairpersons: H Bueno (Madrid, ES) - CE Mueller (Basel, CH)

- 12:00 Case 1: diagnosis and treatment of acute and unstable myocarditis.**
A Caforio (Padua,IT)
- 12:15 Case 2: refractory ventricular arrhythmias – when pharmacology fails.**
S Savastano (Pavia,IT)
- 12:30 Meet the Experts: cardiovascular catastrophes in critical care – advanced
therapies in acute myocarditis and electrical storm – discussion.**
J Katz (Durahm,US)

Learning Objectives:

Categories: Live Q&A

Saving the ventricle in acute myocardial infarction with cardiogenic shock (AMICS): ventricular unloading debunked

Session Number: 347

Chairpersons: H Thiele (Leipzig, DE) - M Lettino (Milano, IT)

- 08:00** **Acute myocardial infarction with cardiogenic shock: case presentation.**
A Chieffo (Milan,IT)
- 08:11** **Acute myocardial infarction with cardiogenic shock: how I would I treat.**
L Hunziker (Bern,CH)
- 08:22** **Acute myocardial infarction with cardiogenic shock: how I did treat.**
A Chieffo (Milan,IT)
- 08:33** **Saving the ventricle in acute myocardial infarction with cardiogenic shock (AMICS): ventricular unloading debunked – discussion.**
P Vranckx (Hasselt,BE)

Learning Objectives:

Categories: Live Q&A

**Extracorporeal cardiopulmonary resuscitation (ECPR) in action:
lessons from the experts****Session Number: 348**Chairpersons: S Price (London, GB)

- 10:30 Evidence in favour of ECPR in 2021.**
C Hassager (Copenhagen,DK)
- 10:41 Practicalities of ECPR.**
J Belohlavek (Praha 2,CZ)
- 10:52 ECPR video demonstration.**
J Belohlavek (Praha 2,CZ)
- 11:03 Extracorporeal cardiopulmonary resuscitation (ECPR) in action: lessons from the experts – discussion.**
A Combes (Paris,FR)

Learning Objectives:

Categories: Live Chat

Guidelines in Practice: acute pulmonary embolism

Session Number: 349

Chairpersons: SV Konstantinides (Mainz, DE) - V Harjola (Helsinki, FI)

- 12:00 A patient with a massive pulmonary embolism is not improving despite thrombolysis: case presentation.**
F Caetano (London,GB)
- 12:10 A patient with a massive pulmonary embolism is not improving despite thrombolysis: what do the guidelines say from a cardiologist's perspective?**
E Mahmud (San Diego,US)
- 12:21 A patient with a massive pulmonary embolism is not improving despite thrombolysis: what do the guidelines say from a surgeon's perspective?**
D Jenkins (Cambridge,GB)
- 12:32 A patient with a massive pulmonary embolism is not improving despite thrombolysis: how to implement the guidelines and take-home message.**
PH Kolh (Liege,BE)

Learning Objectives:

Categories: Live Q&A

**Great Debate: rise of the machines? – human vs. artificial intelligence
for ECG interpretation****Session Number: 350**Chairpersons: J de Jong (Amsterdam, NL) - V Kunadian (Newcastle Upon Tyne, GB)

- 08:00 Human interpretation of ECGs is fundamentally flawed: pro.**
P Friedman (Rochester,US)
- 08:15 Human interpretation of ECGs is fundamentally flawed: con.**
CJM Vrints (Edegem,BE)
- 08:30 Great Debate: rise of the machines? – human vs. artificial intelligence for ECG
interpretation – discussion.**
S Al-Khatib (Durham,US)

Learning Objectives:

Categories: Live Q&A

Symposium	Monday, 30 August 2021	10:30 - 11:15	Coronary Artery Disease - Acute Cardiac Care - Channel
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You only live twice: key resuscitation controversies in 2021

Session Number: 351

Chairpersons: A Sionis (Barcelona, ES)

- 10:30 Is it really justifiable for the EMS to bypass the nearest hospital for cardiac arrest?**
N Pareek (London,GB)
- 10:41 Coronary imaging after sudden cardiac death: how, when and for whom?**
J Lemkes (Amsterdam,NL)
- 10:52 Consciousness after death? Challenging concepts that shape the ethical framework around organ donation after cardiac arrest.**
LF Ross (Chicago,US)
- 11:03 You only live twice: key resuscitation controversies in 2021 – discussion.**
N Nikolaou (Athens,GR)

Learning Objectives:

Categories: Live Chat

Rethinking therapeutic and diagnostic strategies for chronic coronary syndromes: European and Japanese perspectives after the ISCHEMIA trial

Session Number: 352

Joint with the Japanese Circulation Society (JCS)

Chairpersons: K Kozuma (Tokyo, JP) - F Weidinger (Vienna, AT)

- 09:30 Beyond the ISCHEMIA paradigm: updating the role of stress tests, coronary CT and optimisation of medical therapy.**
S Kohsaka (Tokyo,JP)
- 09:41 How should we manage chronic coronary syndromes after the ISCHEMIA trial?**
F Otsuka (Suita,JP)
- 09:52 Is there a need to revise the ESC Guidelines for myocardial revascularisation and chronic coronary syndromes because of the ISCHEMIA trial?**
B Gersh (Rochester,US)
- 10:03 Rethinking therapeutic and diagnostic strategies for chronic coronary syndromes: European and Japanese perspectives after the ISCHEMIA trial – discussion.**
M Roffi (Geneva,CH)

Learning Objectives:

Categories: Live Chat

Cardiac arrest and CPR 2021: hot topics

Session Number: 353

Joint with the European Resuscitation Council (ERC)

Chairpersons: N Nikolaou (Athens, GR) - T Quinn (London, GB)

10:30 What is new in the European Resuscitation Council Guidelines 2021?

G Perkins (Warwick,GB)

10:41 Survival after OHCA: do first responder systems in Europe improve survival?

H Tan (Amsterdam,NL)

10:52 New therapeutic targets in postcardiac arrest syndrome.

TM Olasveegen (Oslo,NO)

11:03 Cardiac arrest and CPR 2021: hot topics – discussion.

H Crijns (Maastricht,NL)

Learning Objectives: Presenting an update of the most important advancements in Resuscitation Science and Practice.

Categories: Live Chat

Triage of suspected ACS patients

Session Number: 366

Chairpersons: SD Kristensen (Aarhus N, DK) - F Van de Werf (Leuven, BE)

08:00 State-of-the-art triage of patients with suspected ACS

G Montalescot (Paris,FR)

08:15 Results from HART-c: innovations in prehospital triage for acute cardiac symptoms, a multicentre prospective study

ER De Koning (Den Haag,NL)

08:30 Referral decisions based on a pre-hospital HEART score in suspected non-ST-elevation acute coronary syndrome: Final results of the Famous Triage study

R Tolsma (Zwolle,NL)

Learning Objectives:

Categories: Abstract-Based Programme

COVID-19 and acute coronary syndromes**Session Number: 367**Chairpersons: U Zeymer (Ludwigshafen, DE) - N Danchin (Montreuil, FR)

- 07:15 Morphological variants of heart damage in patients with Covid-19**
- 07:24 A prospective evaluation of COVID-19 associated coagulopathy with acute coronary syndrome (ACS)**
- 07:33 Mechanisms of myocardial injury and clinical outcomes in patients hospitalised with suspected COVID-19**
A Bularga (Edinburgh,GB)
- 07:42 Crowding at hospitals- the main reason for not seeking medical care when affected by an acute myocardial infarction during the first wave of COVID-19**
C Nymark (Norrtälje,SE)
- 07:51 Myocardial ischaemia of non-obstructive origin as a cause of new onset anginal chest pain in the long COVID syndrome**

Learning Objectives:

Categories: Abstract-Based Programme, COVID-19

Emerging implications of COVID-19 in acute cardiac care

Session Number: 368

Chairpersons: KA Krychtiuk (Vienna, AT) - G Tavazzi (Pavia, IT)

- 20:15 Clinical outcomes in COVID-19 patients with in-hospital cardiac arrest - an insight from multi-centre data**
- 20:24 Septic shock 3.0 in severe COVID19 patients: are we missing something clinically important?**
J Cidade (Lisbon,PT)
- 20:33 Mean serum D-dimer level to predict in-hospital mortality in Covid-19 patients**
T Cinar (Istanbul,TR)
- 20:42 Echocardiogram in critically ill patients with COVID-19**
BFO Gomes (Rio De Janeiro,BR)
- 20:51 The predictive value of cardiac biomarkers and echocardiography in critical COVID-19**

Learning Objectives:

Categories: Abstract-Based Programme, COVID-19

Highlights from the Young in coronary artery disease

Session Number: 369

Chairpersons: AK Gitt (Ludwigshafen, DE) - F Schiele (Besancon, FR)

- 20:15 Impact of residual angina after PCI or CABG on 10-year mortality; insights from the SYNTAX Extended Survival trial**
- 20:24 Cannabis use is associated with prevalent coronary artery disease**
N Patel (- ,US)
- 20:33 Prasugrel or clopidogrel in patients with acute coronary syndromes at high thrombotic risk: results from the PROMETHEUS study**
- 20:42 Dispatch of lay-responders is associated with bystander cardiopulmonary resuscitation, bystander defibrillation and 30-day survival following an out-of-hospital cardiac arrest.**
M Jonsson (Stockholm,SE)
- 20:51 Outcomes of ST-Elevation Myocardial Infarction due to spontaneous coronary artery dissection: a nationwide cohort sample.**
A Elkaryoni (- ,US)

Learning Objectives:

Categories: Abstract-Based Programme

Emerging concepts in the evaluation of coronary artery disease**Session Number: 370**Chairpersons: N Pijls (Eindhoven, NL) - B De Bruyne (Aalst, BE)

- 07:15 Long-term prognostic value of non-invasive lesion-specific hemodynamic index**
S Yang (- ,KR)
- 07:24 Diagnostic accuracy and reclassification potential of the acoustic CADScor algorithm in intermediate risk patients with suspected coronary artery disease**
L Rasmussen (Aalborg,DK)
- 07:33 A novel index reflecting both anatomical and physiologic parameters in coronary artery disease, the FFR adjusted SYNTAX score (FaSs)**
S Park (- ,KR)
- 07:42 Transmyocardial extraction of endothelin-1 correlates with increased microvascular resistance following percutaneous coronary intervention**
G Abraham (Cambridge,GB)
- 07:51 Effect of coronary disease characteristics on prognostic relevance of residual ischemia after stent implantation**

Learning Objectives:

Categories: Abstract-Based Programme

Chronic coronary syndromes: pathophysiology, treatment, and prognosis**Session Number: 371**Chairpersons: TF Luscher (London, GB)

- 07:15** **Impact of chronic coronary syndromes on cardiovascular hospitalization and mortality: the ESC-EORP CICD-LT registry**
- 07:24** **12-month post-trial follow-up of participants in the Australian arm of the second low-dose colchicine trial**
S Nidorf (Perth,AU)
- 07:33** **Association of elevated lipoprotein(a) level and monocyte subsets with the severity of coronary atherosclerosis**
A Filatova (Moscow,RU)
- 07:42** **Sex-dependent impact of coronary microvascular dysfunction on long-term clinical outcomes in patients with no-obstructive coronary artery disease**
T Toya (Setagaya-Ku,JP)
- 07:51** **Detectable troponin below the 99th percentile predicts survival in patients with cardiovascular disease**
L Michel (Essen,DE)

Learning Objectives:

Categories: Abstract-Based Programme

Acute coronary syndromes: diagnosis, treatment, outcomes

Session Number: 372

Chairpersons: B Ibanez (Madrid, ES) - D Zahger (Beer Sheva, IL)

- 20:15 Derivation and validation of a novel 3-hour pathway for the observe-zone of the ESC 0/1h-algorithm**
P Lopez Ayala (Basel,CH)
- 20:24 Effect of low dose intracoronary alteplase on global circumferential strain (myocardial strain CMR substudy from the T-TIME trial)**
P McCartney (Glasgow,GB)
- 20:33 Increased long-term mortality in patients with type 2 myocardial infarction, data from the ECAD registry**
- 20:42 Impact of center-volume on outcomes in myocardial infarction complicated by cardiogenic shock - a CULPRIT-SHOCK sub-study**
P Clemmensen (Hamburg,DE)
- 20:51 TOTAL risk score for predicting safe very early discharge in patients with ST-elevation myocardial infarction (STEMI)**

Learning Objectives:

Categories: Abstract-Based Programme

**Acute coronary syndromes pathophysiology and mechanisms:
what's new?****Session Number: 373**Chairpersons: F Alfonso Manterola (Madrid, ES) - P Widimsky (Prague, CZ)

- 07:15 Culprit-plaque morphology and residual SYNTAX score for predicting cardiovascular events in acute myocardial infarction: an optical coherence tomography study**
Y Wang (Beijing,CN)
- 07:24 Prevalence, predictors, and clinical prognosis of macrophage infiltrates in patients with ST-segment elevation myocardial infarction caused by plaque erosion as assessed by OCT**
C Zhao (Harbin,CN)
- 07:33 Prognostic implications of cholesterol crystals at ACS causing culprit lesions, insights from the translational OPTICO-ACS study program**
- 07:42 Long-term follow-up of patients with MINOCA (myocardial infarction with unobstructed coronary arteries) undergoing intracoronary spasm provocation testing**
- 07:51 Gender differences in the impact of plasma xanthine oxidoreductase activity on coronary artery spasm**
K Watanabe (Yamagata,JP)

Learning Objectives:

Categories: Abstract-Based Programme

Frontiers in the diagnosis and management of cardiac arrest

Session Number: 374

Chairpersons: C Hassager (Copenhagen, DK) - CJM Vrints (Edegem, BE)

- 07:15** **Tocilizumab mitigates hypercoagulability after out-of-hospital cardiac arrest - results from a randomized controlled trial (IMICA)**
M Meyer (Copenhagen,DK)
- 07:24** **Duration of resuscitation efforts and long-term prognosis following in-hospital cardiac arrest (IHCA)**
H Yonis (Aalborg,DK)
- 07:33** **Ischemic signs on the post-resuscitation ECG in absence of STEMI is associated with lower survival. A COACT trial's sub-study**
E Spoormans (Amsterdam,NL)
- 07:42** **Mechanical circulatory support for refractory out-of-hospital cardiac arrest: a nationwide multicentre study**
S Moerk (Aarhus N,DK)
- 07:51** **Shortening pre-hospital time delay in patients with acute myocardial infarction using a modelling-based narrative intervention with a virtual heart attack experience: a randomized controlled trial**
PWC Li (Hong Kong,HK)

Learning Objectives:

Categories: Abstract-Based Programme

Congress committee e-posters choice in CAD/ACS/ACC

Session Number: 375

Chairpersons:

D Hasdai (Petah-Tikva, IL) - S Leonardi (Pavia, IT) - J ten Berg (Nieuwegein, NL) - D Trifunovic Zamaklar (Beograd, RS) - S Price (London, GB) - PH Kolh (Liege, BE)

- 08:00** **Ticagrelor monotherapy versus ticagrelor with aspirin in acute coronary syndrome patients with a high risk of ischemic events**
Y Lee (Seoul,KR)
- 08:00** **Post-discharge major bleeding, myocardial infarction and mortality risk after coronary artery bypass grafting: A nationwide cohort study from the SWEDEHEART registry**
- 08:00** **Trends in cardiovascular mortality of cancer patients in the US over two decades 1999-2019**
O Kobo (Rakefet,IL)
- 08:00** **Antiplatelet treatment in patients with conservatively managed spontaneous coronary artery dissection. Results of the multicenter international registry DISCO.**
E Cerrato (Torino,IT)
- 08:00** **Underuse of reperfusiontherapy in STEMI with cardiogenic shock. Results of the EORP ACVC EAPCI STEMI registry of the ESC.**
U Zeymer (Ludwigshafen,DE)
- 08:00** **The effect of immediate coronary angiography after cardiac arrest without ST-segment elevation on left ventricular function. A sub-study of the COACT randomised trial**
J Lemkes (Amsterdam,NL)
- 08:00** **Comparison of risk prediction models in infarct-related cardiogenic shock**
A Freund (Leipzig,DE)
- 08:00** **Smoky heart: cardiovascular manifestations of carbon monoxide poisoning.**
N Butt (Park Ridge,US)
- 08:00** **Who arrives first: EMS, fire-fighter or lay responder? The rally to the suspected out-of-hospital cardiac arrest**
- 08:00** **Diagnostic value of post-return of spontaneous circulation electrocardiogram for selection of candidates for primary percutaneous coronary intervention after out-of-hospital cardiac arrest**
A Severo (Madrid,ES)
- 08:00** **Left ventricular unloading before percutaneous coronary intervention is associated with improved survival in patients with acute myocardial infarction complicated by cardiogenic shock**
- 08:00** **Out-of-hospital cardiac arrest in elderly individuals**
V Qaderi (- ,DE)
- 08:00** **The global effect of Covid-19 on Acute Coronary Syndromes management**
ML Lunardi Mattia (Galway,IE)
- 08:00** **COVID-19 patients with coronary artery disease have a higher mortality risk: a meta-analysis.**
G Rigatelli (Legnago,IT)
- 08:00** **Diagnostic value of circulating microRNAs compared to high-sensitivity troponin t for the detection of non-ST-segment elevation myocardial infarction**
M Biener (Heidelberg,DE)
- 08:00** **Outcomes associated with the introduction of 5th generation high sensitivity**

cardiac troponin t testing in patients presenting with non-cardiovascular disorders

M Goldenberg (- ,US)

- 08:00 Role of inflammation in Myocardial Infarction with Non-Obstructive Coronary Arteries**
MJ Espinosa Pascual (Madrid,ES)
- 08:00 Variation in in-hospital mortality and its association with procedure-related bleeding complications: a report from nationwide percutaneous coronary intervention registry in japan**
Y Sawayama (Otsu,JP)
- 08:00 Clinical utility of the academic research consortium new proposed criteria for high bleeding risk definition in patients with acute coronary syndromes**
C Montalto (Pavia,IT)
- 08:00 Reversible P2Y12 inhibitor versus irreversible P2Y12 inhibitor in ACS patients undergoing PCI (the acute coronary syndrome israeli survey (ACSIS))**
- 08:00 Complete revascularization in multivessel disease STEMI: a bayesian hierarchical network meta-analysis**
- 08:00 Association between family history and severity of coronary artery disease in a nationwide sample of patients with a first time myocardial infarction**
M Said (Unknown,SE)
- 08:00 Long term outcomes of a coordinate care program in patients after myocardial infarction (KOS-MI)**
- 08:00 Is myocardial infarction a surrogate endpoint for all-cause mortality? A trial-level meta-analysis of 144 randomized controlled trials enrolling 1.2 million patients from 1972-2020**
K O'Fee (- ,US)
- 08:00 Incidence, associated outcomes and predictors of upper gastrointestinal bleeding following acute myocardial infarction - a SWEDEHEART based nationwide cohort study**
P Sarajlic (Stockholm,SE)
- 08:00 Patient-tailored DAPT duration after PCI in high-risk "TWILIGHT-like" ACS patients**
- 08:00 Growth differentiation factor 15 - a strong prognostic marker in patients presenting with acute chest pain without acute myocardial infarction**
G Myrmel (Bergen,NO)
- 08:00 The impact of age on the diagnosis of type 1 myocardial infarction using high-sensitivity cardiac troponin**
M Lowry (Glasgow,GB)
- 08:00 ADP-receptor antagonists in patients with acute myocardial infarction complicated by cardiogenic shock: A pooled IABP-SHOCK II and CULPRIT-SHOCK trial sub-analysis**
J A Kleeberger (Muenchen,DE)
- 08:00 Predicting hospital mortality in cardiac care unit patients: external validation of the M-CARS**
P Chichareon (Rotterdam,NL)

- 08:00 Trends in all-cause and cardiovascular mortality in patients with acute myocardial infarction: a nationwide analysis over 10 years**
D Angoulvant (Tours Cedex 9,FR)
- 08:00 Implications of periprocedural myocardial biomarker elevations and commonly used MI definitions after left main PCI**
- 08:00 Acute kidney injury definition following PCI and cardiovascular outcomes**
K Skalsky (Mazkeret Batia,IL)
- 08:00 Declines in in- and out-of-hospital coronary mortality from 2000 to 2016: results from the French MONICA registries**
S GBOKOU (Strasbourg,FR)
- 08:00 Prognostic utility of fibrinogen in patients with coronary artery disease and prediabetes or diabetes following percutaneous coronary intervention: five-year findings from a large single-center cohort**
D Yuan (Beijing,CN)
- 08:00 Degree of peripheral Thyroxin Deiodination and recurrent cardiovascular events in euthyroid patients undergoing PCI: five-year findings from a large single-center cohort study**
D Yuan (Beijing,CN)

Learning Objectives:

Categories: Abstract-Based Programme

Symposium	Monday, 30 August 2021	09:30 - 10:15	Digital Health, Public Health, Health Economics - Channel
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Social media for the cardiologist

Session Number: 380

Chairpersons: M Alasnag (Jeddah, SA)

- 09:30 Overview of social media platforms: which to use and how to start.**
P Meier (Sion,CH)
- 09:41 Lifelong medical training through social media.**
S Brugaletta (Barcelona,ES)
- 09:52 Social media and complex case discussions: can they improve patient care?**
M Mamas (Stoke On Trent,GB)
- 10:03 Social media for the cardiologist – discussion.**
C Gibson (Boston,US)

Learning Objectives:

Categories: Live Chat

Symposium	Monday, 30 August 2021	08:00 - 08:45	Digital Health, Public Health, Health Economics - Channel
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Practical advice for digitally enabled patient follow-up: stay connected!

Session Number: 381

Chairpersons: E Svennberg (Stockholm, SE) - C Helmark (Roskilde, DK)

- 08:00 Digital patient follow-up: ask the digital oracle!**
D Duncker (Hannover,DE)

- 08:11 How to avoid data overload: integration of data from wearables into the clinical workflow.**
D Linz (Maastricht,NL)

- 08:22 Healthcare inequities: how to bridge the digital divide.**
L Neubeck (Edinburgh,GB)

- 08:33 Practical advice for digitally enabled patient follow-up: stay connected! – discussion.**

Learning Objectives:

Categories: Live Q&A

Symposium	Friday, 27 August 2021	10:30 - 11:15	Coronary Artery Disease - Acute Cardiac Care - Channel
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Fighting sudden cardiac death the digital way

Session Number: 382

Chairpersons: H Heidbuchel (Antwerp, BE)

- 10:30 Reaching the next level in cardiopulmonary resuscitation training: virtual reality.**
C Cerezo Espinosa (Murcia,ES)
- 10:41 Saving lives by optimising city-wide positioning of defibrillator.**
EG Caiani (Milano,IT)
- 10:52 Drones to the rescue: just-in-time delivery of the defibrillator.**
S Schierbeck (Farsta,SE)
- 11:03 Fighting sudden cardiac death the digital way – discussion.**
H Burri (Geneva,CH)

Learning Objectives:

Categories: Live Chat, Spotlight of the Congress

Symposium	Monday, 30 August 2021	10:30 - 11:15	Digital Health, Public Health, Health Economics - Channel
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Death is analogue: let's go digital

Session Number: 383

Chairpersons: A Goette (Paderborn, DE)

- 10:30** **How to use digital methods to predict sudden cardiac death.**
G Schmidt (Munich,DE)
- 10:41** **Recognising cardiac arrest: can artificial intelligence help?**
AK Ersboll (Odense,DK)
- 10:52** **Can artificial intelligence be used to optimise secondary prevention of sudden cardiac death?**
S Narayan (Stanford,US)
- 11:03** **Death is analogue: let's go digital – discussion.**
D Kotecha (Birmingham,GB)

Learning Objectives:

Categories: Live Chat, Spotlight of the Congress

Sudden cardiac death: can we move from prediction to prevention?

Session Number: 384

Chairpersons: RL Verrier (Boston, US)

- 09:30 Digital heart rate analysis: can we predict sudden cardiac death?**
G Schmidt (Munich,DE)
- 09:41 Machine learning: what does it bring to the prediction of sudden cardiac death?**
S Narayan (Stanford,US)
- 09:52 Machine learning: can we prevent sudden cardiac death in heart failure?**
K Nakajima (Kanazawa,JP)
- 10:03 Sudden cardiac death: can we move from prediction to prevention? – discussion.**
C Moons (Utrecht,NL)

Learning Objectives:

Categories: Live Chat, Spotlight of the Congress

Great Debate: artificial intelligence in cardiology – a marriage made in heaven or hell?

Session Number: 386

Chairpersons: M Cowie (London, GB) - M Rabbat (Maywood, US)

- 12:00 Artificial intelligence and cardiology is a marriage made in heaven.**
FW Asselbergs (Utrecht,NL)
- 12:15 Artificial intelligence and cardiology is a marriage made in hell.**
A Fraser (Cardiff,GB)
- 12:30 Great debate: artificial intelligence in cardiology – a marriage made in heaven or hell? – discussion.**
N Bruining (Rotterdam,NL)

Learning Objectives:

Categories: Live Q&A

e-posters	Friday, 27 August 2021	08:00 - 20:00	Abstracts and Clinical Cases - On Demand
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Pharmacology and pharmacotherapy e-posters

Session Number: 400

Chairpersons:

- 08:00** **Efficacy of propafenone vs. amiodarone in pharmacological cardioversion of recent-onset atrial fibrillation to sinus rhythm: a pooled meta-analysis of 9 randomized controlled trials**
JA Borovac (Split,HR)
- 08:00** **The prevalence and safety of direct oral anticoagulants in patients with non-atrial fibrillation associated intra-cardiac thrombus**
A KANWAL (Baltimore,US)
- 08:00** **Efficiency and safety of the modified protocol for cardioversion of atrial fibrillation using the antiarrhythmic drug niferidil. First results of clinical use.**
K Dzaurova (- ,RU)
- 08:00** **The effect of glucagon-like peptide-1 receptor agonists on 24-hour ambulatory blood pressure: a meta-analysis**
- 08:00** **Risk of death with sodium-glucose co-transporter-2 inhibitors across the hallmark cardiovascular and renal outcome trials: an updated meta-analysis**
- 08:00** **Meta-analysis of cardiovascular outcome trials assessing the cardiovascular efficacy and safety of dipeptidyl peptidase-4 inhibitors in patients with type 2 diabetes mellitus**
- 08:00** **Impact of antidiabetic treatment with dipeptidyl peptidase-4 inhibitors on the risk of cardiac arrhythmias among patients with type 2 diabetes mellitus**
- 08:00** **Better outcome with D-dimer guided anticoagulant in hospitalised patients with moderate and severe COVID-19 illness**
- 08:00** **Frequency of antiplatelet therapy in coronary artery disease. Data from the disease management programme CAD**
- 08:00** **The non-steroidal mineralocorticoid receptor antagonist finerenone improves left ventricular function in preclinical chronic kidney disease**
Y Stephan (- ,FR)
- 08:00** **Safety of Digoxin in Nonagenarian Patients with Atrial Fibrillation. Lessons from a Spanish multicenter registry.**
- 08:00** **Less statin associated adverse events after initiation of pitavastatin compared with atorvastatin and rosuvastatin**
JL Lin (Tainan,TW)
- 08:00** **Patient acceptance of an electronically recruited beta blocker trial**
A Roebuck (Lincoln,GB)
- 08:00** **Low and full dose apixaban in patients with atrial fibrillation and renal dysfunction: findings from a national registry**
C Gurevitz (Petah Tikva,IL)
- 08:00** **Clinical efficacy and safety outcomes of bempedoic acid for LDL-C lowering therapy in patients at high cardiovascular risk: a systematic review and meta-analysis**
- 08:00** **Predictors of inappropriate dosing of direct oral anticoagulants in nonagenarian patients with atrial fibrillation.**

- 08:00** **The effects of non-vitamin K antagonist oral anticoagulants on heparin-induced prolongation of the activated coagulation time**
F Negro (Melendugno,IT)
- 08:00** **Prognostic impact of treatment with angiotensin-converting enzyme inhibitors and angiotensin receptor blockers in the acute phase and medium-term on COVID-19 infected patients.**
J Lopez-Pais (Santiago,ES)
- 08:00** **Influence of renal dysfunction on clinical outcomes in elderly patients with atrial fibrillation: a subanalysis of the phase 3, randomized, placebo-controlled ELDERCARE-AF trial**
T Yoshida (- ,JP)
- 08:00** **Sex-differences in initiation of renin-angiotensin system inhibitors in patients with type 2 diabetes diagnosed with albuminuria**
- 08:00** **A safety and clinical efficacy analysis of PCSK9 monoclonal antibodies in patients with markedly elevated creatine phosphokinase levels**
B Zafirir (Haifa,IL)
- 08:00** **Evolocumab use in Europe: clinical guidelines vs. reimbursement thresholds - Results from the HEYMANS study**
KK Ray (London,GB)
- 08:00** **Glucagon-like peptide-1 receptor agonist and the relation between metabolic effects and cardiovascular outcomes: insight into mechanisms of action**
- 08:00** **Comparison of the sensitivity of commercial aPTT tests in measurement of the pharmacodynamic response of milvexian, a novel FXIa inhibitor**
- 08:00** **Dual antiplatelet therapy with 3rd generation P2Y12 inhibitors in STEMI patients: impact of Body Mass Index on high on-treatment platelet reactivity**
F Scudiero (Cava De'tirreni,IT)
- 08:00** **Trends in initiation of GLP-1 RA in patients with type 2 diabetes during 2014-2019: a US database study**
M Kosiborod (Kansas,US)
- 08:00** **Ranolazine exerted cardioprotection against doxorubicin-induced cardiotoxicity through inhibiting excessive autophagy in rats**
A Arinno (Muang Chiang Mai,TH)
- 08:00** **Effectiveness and safety of oral anticoagulants in the treatment of acute venous thromboembolism: a comparative cohort study in France**
L Bertolotti (- ,FR)
- 08:00** **Temporal trend of clinical events in patients with atrial fibrillation on edoxaban therapy: results from the non-interventional global ETNA-AF program**
L Dinshaw (Hamburg,DE)
- 08:00** **Edoxaban treatment in real-world practice is highly concordant with ESC atrial fibrillation guidelines: results from the non-interventional global ETNA-AF program**
D Morrone (Pisa,IT)
- 08:00** **The effect of one year treatment with GLP1-RA, SGLT2i and their combination on**

- 08:00 **Long-term prognostic impact of renin-angiotensin system blockade in tako-tsubo syndrome**
M Cespon Fernandez (Pontevedra,ES)
- 08:00 **Prevention of VEGF inhibitor-induced toxicity by salt restriction: the SUN-SALT study**
J Versmissen (Rotterdam,NL)
- 08:00 **Evaluating direct oral anticoagulants versus vitamin k antagonists for treatment of left ventricular thrombus: a systematic review and meta-analysis**
Y Qiu (Hamilton,CA)
- 08:00 **Dabigatran as first-line treatment for heparin-induced thrombocytopenia in the intensive cardiac care setting.**
- 08:00 **Dose-dependent effects of rosuvastatin on circulating microRNAs-27a and 221 levels in patients with coronary artery disease with type 2 diabetes mellitus**
SS Serik (Kharkiv,UA)
- 08:00 **Effect of angiotensin-converting enzyme inhibitors and angiotensin receptor blockers on the short-term prognosis of COVID-19 infection**
L Esteban-Lucia (Madrid,ES)
- 08:00 **Calcium channel blockers and beta-blockers could increased mortality of patients with COVID-19**
L Esteban-Lucia (Madrid,ES)
- 08:00 **Epistaxis in anticoagulated patients with atrial fibrillation in the ENGAGE AF-TIMI 48 trial**
R Semco (- ,US)
- 08:00 **Bleeding risk in patients with atrial fibrillation treated with combined anti-platelet and NOAC therapy**
YR Kim (Goyang-Si,KR)
- 08:00 **Direct oral anticoagulants compared with vitamin k antagonists for left ventricular thrombi systematic review and meta-analysis**
G Costa (Coimbra,PT)
- 08:00 **Protective mechanisms of betablockers for coronary artery disease are by distal vasoconstriction and slower speed: a study by angiographic assessment and artificial intelligence program**
- 08:00 **Effectiveness of direct oral anticoagulants in obese adults with atrial fibrillation: an overview examining the evidence from international systematic reviews and meta-analyses**
F Shaikh (Sydney,AU)
- 08:00 **Efficacy and safety of direct oral anticoagulants with diabetes and nonvalvular atrial fibrillation: a systematic review and meta-analysis**
G Costa (Coimbra,PT)
- 08:00 **SIRT1 improves endothelial function by suppressing oxidative stress in diabetic mice**
K Yang (Schlieren,CH)
- 08:00 **Strategies to bridge therapeutic gap in low-density-lipoprotein cholesterol**

lowering among 90,590 Chinese population with atherosclerotic cardiovascular diseases on stable statin monotherapy

- 08:00** **Direct oral anti-coagulants in patients with atrial fibrillation and bioprosthetic valve: a meta-analysis of randomized controlled trials**
F Abella (- ,PH)
- 08:00** **Efficacy and safety of early aspirin withdrawal and continuation of ticagrelor monotherapy post PCI for STEMI. A post hoc analysis of the randomized global leaders trial**
A Gamal (Carlisle,GB)
- 08:00** **Antithrombotic therapy for patients with atrial fibrillation and stable coronary artery disease of 1-year and 3-year after percutaneous coronary intervention: a nationwide population-based study**
- 08:00** **Increased Let-7e expression is associated with long-term all-cause mortality and antiplatelet treatment in patients with type 2 diabetes mellitus**
- 08:00** **PCSK9 inhibitor therapy and guideline treatment targets for cardiovascular disease and familial hypercholesterolaemia**
A Suresh (London,GB)
- 08:00** **Inorganic nitrate attenuates endothelial dysfunction consequent to systemic inflammation**
- 08:00** **Statin use can attenuate the decline in left ventricular ejection fraction during the cardiotoxic chemotherapy: a systemic review and meta-analysis**
J Kim (Honolulu,US)
- 08:00** **Efficacy & tolerability of bisoprolol in comparison to metoprolol in Indian patients with stage-1 hypertension: multicentre, parallel group, open labelled, randomised noninferiority clinical study**
A Dasbiswas (Calcutta,IN)
- 08:00** **Statin Therapy In Hepatitis: A systematic review and meta-analysis of 9 studies with 195,602 participants**
M Banach (Lodz,PL)
- 08:00** **Inorganic nitrate attenuates the systemic inflammatory response in typhoid vaccine-induced endothelial dysfunction in healthy volunteers**
A Shabbir (London,GB)
- 08:00** **Impact of DAPT duration on clinical outcome after stent implantation for coronary bifurcation lesions: Multicentre experience.**
P Jariwala (Hyderabad,IN)
- 08:00** **Differences of gastrointestinal bleeding after percutaneous coronary intervention with stent implantation among the different dual anti platelet therapies.**
U Idiazabal (Bilbao,ES)
- 08:00** **Differential effect of novel antidiabetic agents on the arterial stiffness and endothelial function in patients with type 2 diabetes mellitus**

Learning Objectives:

Categories:

Hypertension e-posters

Session Number: 401

Chairpersons:

- 08:00 Exercise intensities modulate cognitive function in spontaneously hypertensive rats through oxidative mediated synaptic plasticity in hippocampus**
TM Lee (Tainan,TW)
- 08:00 Arterial stiffness and the risk of heart failure formation in rotational shift workers in the arctic**
N Shurkevich (Tyumen,RU)
- 08:00 Marital status, cardiovascular events, and intensive blood pressure lowering among men and women in the Systolic Blood Pressure Intervention Trial**
M Pareek (New Haven,US)
- 08:00 Greater event rates in high-risk patients with a history of heart disease: from the Systolic Blood Pressure Intervention Trial (SPRINT)**
M Pareek (New Haven,US)
- 08:00 Renal denervation in truly resistant hypertensive patients: six-year follow-up results of a single-center study**
M Ionov (Saint-Petersburg,RU)
- 08:00 Evaluation of global left ventricular systolic function in dipper and newly diagnosed nondipper hypertensive patients**
S CAKAL (Istanbul,TR)
- 08:00 The predictive value of central aortic blood pressure on new onset stroke and differences between brachial blood pressure in a chinese hypertensive population, a prospective cohort study**
T Cao (Beijing,CN)
- 08:00 Primary health insurance and cardiovascular outcomes in the systolic blood pressure intervention trial**
C Byrne (Virum,DK)
- 08:00 Accuracy of a cuffless blood pressure measurement with a single-channel electrocardiogram monitor with photoplethysmography.**
Z N Sagirova (Moscow,RU)
- 08:00 Comparison of a self-automated blood pressure measurement according to the american heart association recommendation versus a routine practice, a randomized-controlled trial**
N Suntornlekha (Chiang Mai,TH)
- 08:00 Renin-angiotensin-aldosterone system genotypes and cardiac remodeling response to essential hypertension**
O Mocan (- ,RO)
- 08:00 Magnetic resonance imaging of the aortic wall as a risk index for acute ischemic stroke in patients with resistant arterial hypertension**
N Ryumshina (Tomsk,RU)
- 08:00 Association between blood pressure classification using the 2017 american college of cardiology/american heart association blood pressure guideline and hypertensive retinopathy**
- 08:00 Sex-specific associations of evening blood pressure burden and cardiac load with nocturia severity in the Japanese at high-risk of cardiovascular disease**
M Nagai (Hiroshima,JP)
- 08:00 Estimated pulse wave velocity: can masters athletes escape the curve?**

- 08:00** **24-hour ambulatory blood pressure measurement using a novel non-invasive, cuff-less, wireless device**
D Nachman (Jerusalem,IL)
- 08:00** **Adipose-derived exosomes impairs endothelial transient receptor potential vanilloid 4 channels and elevates blood pressure in abdominal obesity**
J Wan (- ,CN)
- 08:00** **Relationship between transient symptomatic hypotensive episodes and 24-hour blood pressure variability in patients with arterial hypertension**
S Ermasova (Saratov,RU)
- 08:00** **Pulmonary hypertension is associated with systemic arterial hypertension among patients with normal diastolic function**
E Itelman (Tel Hashomer,IL)
- 08:00** **Atrial fibrillation is an independent predictor of cardiovascular events in patients with primary aldosteronism**
- 08:00** **Age and gender disparities in the prevalence of lipitension**
R Ruf (Krasnoyarsk,RU)
- 08:00** **Fasting plasma glucose and incident colorectal cancer: analysis of a nationwide epidemiological database**
H Itoh (Tokyo,JP)
- 08:00** **Resistant hypertension improved after 3 months by measuring drug levels to identify non-adherence**
L Peeters (Rotterdam,NL)
- 08:00** **Prediction of abnormal left ventricular geometry on the ECG through machine learning with a focus on obesity.**
M Marketou (Heraklio,GR)
- 08:00** **Evaluation of a cuffless watch-like sensor for 24-hour ambulatory blood pressure monitoring**
E Rexhaj (Bern,CH)
- 08:00** **Is the minimal mitral regurgitation a marker of high blood pressure, and can predispose to the appearance of atrial fibrillation?**
CA Paterno Marchioli (Foggia,IT)
- 08:00** **Sustained strong blood pressure lowering and preserved renal function during 3 year after anatomically optimized distal renal denervation according to the double blind randomized controlled study**
S Pekarskiy (Tomsk,RU)
- 08:00** **Blood pressure changes during the the COVID-19 pandemic and associated lockdown period**
- 08:00** **Association of markers of vascular inflammation with blood pressure in midlife: the Hordaland Health Study**
EA Kringeland (Bergen,NO)
- 08:00** **Subclinical cardiac organ damage in patients with moderate to severe psoriasis treated with infliximab**
- 08:00** **Psoriasis severity and the risk of left ventricular remodelling in psoriasis patients treated with infliximab**

- 08:00 Study the features of the course of uncontrolled arterial hypertension in Aral Sea region**
K Yusupova (Tashkent,UZ)
- 08:00 Right ventricular longitudinal systolic strain as a predictor of new onset heart failure with preserved ejection fraction in hypertensive patients.**
M Marketou (Heraklio,GR)
- 08:00 Method for predicting meteopathies in patients with arterial hypertension**
TKV Terentjev Kirill (Moscow,RU)
- 08:00 Association of common carotid artery measurements with the incidence of hypertension: a retrospective cohort study**
N Sasaki (Hiroshima,JP)
- 08:00 The efficiency of dapagliflozin as add-on therapy in obese patients with resistant hypertension and chronic kidney disease**
- 08:00 Resistant hypertension must be defined by ambulatory blood pressure and pulse pressure is best predictor of new cardiovascular events**
- 08:00 High prevalence of non-dipping patterns among black Africans with uncontrolled hypertension: a secondary analysis of the CREOLE trial**
PM Ingabire (Kampala,UG)
- 08:00 Home blood pressure monitoring detects unrevealed hypertension in women with a history of preeclampsia: results of the BP-PRESELF study**
- 08:00 Prevalence of target organ damage in subjects with high-normal blood pressure without known cardiovascular and kidney disease.**
- 08:00 Longitudinal association between serum uric acid level and carotid atherosclerotic plaques in patients with new cases of hypertension**
O Podpalova (Vitebsk,BY)
- 08:00 State of platelet-plasma hemostasis in patients with hypertension and non-alcoholic fatty liver disease in condition of hypercholesterolemia**
V Netiazhenko (Kiev,UA)
- 08:00 State of anticoagulant and fibrinolytic systems of blood in patients with hypertension in combination with non-alcoholic fatty liver disease**
N Bazhenova (Kyiv,UA)
- 08:00 The type of anxiety and the level of anxiety a predictor of the development of arterial hypertension in women with intensive mental work (profession doctor, teacher)**
D Podkopaeva (Kursk,RU)
- 08:00 Smoking habit does not differentiate young patients with first diagnosed and never treated hypertensive disease regarding blood pressure levels and hypertension mediated organ damage**
H Triantafyllidi (Athens,GR)
- 08:00 Association between isolated diastolic hypertension and cardiovascular events: a systematic review and meta-analysis of prospective cohorts**

- 08:00 Blood pressure response during treadmill exercise testing and the risk for future cardiovascular events and new-onset hypertension**
A Aker (- ,IL)
- 08:00 Cardio-ankle vascular index is useful screening method to detect obstructive coronary artery disease in asymptomatic diabetes patients with subclinical atherosclerosis**
T Ono (Okayama,JP)
- 08:00 Circulating microRNA-133a and its associations with left ventricular hypertrophy in men with arterial hypertension**
- 08:00 Features of gene polymorphism in comorbid patients with arterial hypertension and coronary heart disease**
N Drobotya (Rostov-On-Don,RU)
- 08:00 Relationship between year-to-year blood pressure variability and target organ damage in the general population**
H Takase (Hamamatsu,JP)
- 08:00 Improvements of blood pressure, heart rate, and pulse pressure in men with hypogonadism and type 2 diabetes, with and without long-term testosterone therapy**
F Saad (Hamburg,DE)
- 08:00 Single pill combinations present a proven fast track in practice to reach the target blood pressure**
J Brguljan (Ljubljana,SI)
- 08:00 A novel ambulatory blood pressure monitoring derived parameter, blood pressure variability ratio, is associated with metabolic syndrome in patients without known cardiovascular disease**
- 08:00 The detection rate of non-invasive markers of subclinical atherosclerosis of brachyocephalic and coronary arteries with an assessment of their relationship in patients with arterial hypertension**
- 08:00 Low-degree inflammation is a mediator of target organ damage and a target for renal denervation in diabetic patients with resistant hypertension**
- 08:00 Echocardiography indices in urbanized representatives of the Shor ethnic group with the presence of arterial hypertension**
A Sumin (Kemerovo,RU)
- 08:00 Predictors of antihypertensive efficiency of renal denervation in patients with resistant hypertension and type 2 diabetes mellitus**
M Manukyan (Tomsk,RU)
- 08:00 Effect of the Mediterranean diet on blood pressure in adults with and without hypertension: a systematic review and meta-analysis of randomized controlled trials**
C Filippou (Athens,GR)
- 08:00 Exercise capacity benefit in relation to endogenous testosterone, coronary and central vascular physiology, and the Mediterranean regime in hypertensive males with erectile dysfunction**

- 08:00 Myocardial work in overweight and obesity: impact of sex and central haemodynamics**
- 08:00 Leukocyte telomerase concentration is inversely associated with central wave reflection in patients with hypertension**
O Pavlova (Minsk,BY)
- 08:00 Different contribution of sympathetic nerve activity to arterial velocity pulse index in hypertensive patients with and without diastolic dysfunction.**
- 08:00 Age differences in the association between arterial velocity pulse index and muscle sympathetic nerve activity in hypertensive patients.**
- 08:00 The association between central ambulatory blood pressure and end-organ damage**
I Lu (- ,GB)
- 08:00 Type 1 and 2 matrix metalloproteinases, tissue inhibitor of metalloproteinases and left ventricular diastolic dysfunction in hypertensive patients**
N Lareva (Chita,RU)
- 08:00 Aerobic exercise training reduces blood pressure, angiotensin II and oxidative stress of patients with resistant hypertension: The EnRiCH Trial**
S Lopes (Ilhavo,PT)
- 08:00 Insulin resistance-related differences in the relationship between left ventricular hypertrophy and cardiorespiratory fitness in asymptomatic newly diagnosed hypertensive Black sub-Saharan Africans**
B Kianu Phanzu (Kinshasa 1,CD)
- 08:00 Hypercholesterolemia as a factor in the risk stratification of patients with hypertension depending on the ITGA2 gene polymorphism**
- 08:00 Transforming growth factor, arterial stiffness and vascular aging in patients with uncontrolled arterial hypertension**
- 08:00 A novel natural-derived pentameric peptide protects from angiotensin-evoked high blood pressure**
A Carrizzo (Baronissi,IT)
- 08:00 Pilot study of comparability of a smartphone blood pressure monitoring algorithm to conventional cuff-based blood pressure measurements**
A Vischer (Basel,CH)
- 08:00 Simulation and validation for count-based binary decision of target blood pressure achievement in home blood pressure monitoring data analysis for clinical practice**
Y Lee (Guri,KR)
- 08:00 Associations between plasma metabolite profiles and blood pressure: the HELIUS study**
BJH Verhaar (Amsterdam,NL)
- 08:00 An assessment of ethnic and environmental influences on the phenotypes of hypertension**

- 08:00 Investigating the endothelin receptor antagonist aprocitentan in resistant hypertension: design and baseline characteristics of the PRECISION study**
- 08:00 Aortic Calcification in patients with resistant hypertension**
M Litvinova (Rostov-On-Don,RU)
- 08:00 Excessive accumulation of candidate gene polymorphisms in young hypertensive patients as a factor of increasing incidence of arterial hypertension at a young age**
- 08:00 Influence of insulin resistance and chronic low-intensity systemic inflammation on the elasticity of the vascular wall in patients with arterial hypertension and non-alcoholic fatty liver disease**
- 08:00 Correlation arterial stiffness and central blood pressure with obstructive sleep apnea in patients with resistant arterial hypertension**
O Rekovets (Kiev,UA)
- 08:00 Aortic systolic blood pressure predicts periprocedural myocardial injury after transcatheter aortic valve implantation**
- 08:00 Reasons for antihypertensive medication nonadherence influence physician preferences for hypertension management**
R Schmieder (Erlangen,DE)
- 08:00 Application of win ratio methodology in the Global SYMPLICITY Registry for patients with atrial fibrillation or obstructive sleep apnea**
F Mahfoud (Homburg/Saar,DE)
- 08:00 Renal biomarkers reflect overall hypertensive organ damage: "one organ to rule them all"**
- 08:00 Hypertension as a prognostic factor in the prediction of mortality in patients with COVID-19: a systematic review and meta-Analysis**
C Pagdanganan (Quezon City,PH)
- 08:00 Renin-angiotensin system inhibitors can be a first choice drug for hypertension in patients treated with vascular endothelial growth factor inhibitors**
S Moriyama (Fukuoka,JP)
- 08:00 Impact of hypertension on clinical outcome in patients treated with vascular endothelial growth factor inhibitors**
S Moriyama (Fukuoka,JP)
- 08:00 Catestatin in patients with essential hypertension of different cardiovascular risk**
E Gubareva (Samara,RU)
- 08:00 Efficacy and safety of bisoprolol compared to other selective beta-1 blockers in the treatment of hypertension: a systematic review and meta-analysis of randomized parallel clinical trials**
U JADHAV (Mumbai,IN)
- 08:00 Effectiveness of bisoprolol versus selective beta-1 blockers in the management of hypertension: a systematic review and meta-analysis of randomized cross-over trials**

- 08:00 Exploring the cross-talk between liver and vessels through increased morning blood pressure in hypertension**
N Kakouri (Arhens,GR)
- 08:00 Parameters of treadmill exercise test and sympathetic activation are linked to the development of hypertension in subjects with high normal blood pressure**
T Kalos (Athens,GR)
- 08:00 Comparison of cardiovascular events and estimation of hazard ratio for hypertensive patients with and without hypertensive urgencies after a 12-month follow up**
C Fragoulis (Zografou,GR)
- 08:00 Simultaneously measured interarm blood pressure difference is not associated with pulse wave velocity in a clinical dataset of at-risk hypertensive patients**
J Nolde (Perth,AU)
- 08:00 Self-monitoring of blood pressure in women with higher risk pregnancies: the BUMP1 multicentre randomised controlled trial** Withdrawn
- 08:00 Antihypertensive medication and outcome in patients with COVID-19 compared to non-COVID respiratory infections**
- 08:00 Change in renal hemodynamics after renal denervation in diabetic patients with resistant hypertension and chronic kidney disease**
M Manukyan (Tomsk,RU)
- 08:00 Cerebrovascular disorders in diabetic patients with resistant hypertension and factors associated with their severity**
- 08:00 Suboptimal blood pressure control and associated risk for cardiovascular mortality among stroke survivors in China**
B Wang (Beijing,CN)
- 08:00 Initial combination therapy for hypertension in patients of African ancestry: a systematic review and meta-analysis**
- 08:00 Factors of adherence to lifestyle modification in older patients with cardiovascular comorbidity**
E Efremova (Ulyanovsk,RU)
- 08:00 Relationship between peripartum maternal cardiac phenotype and maternal outcome in women with hypertensive disorders of pregnancy**
V Giorgione (- ,GB)
- 08:00 Proportion of patients taking indapamide developing severe hypokalaemia**
- 08:00 Cardiovascular multimorbidity and associated factors: the first Brazilian Registry of patients with hypertension**
- 08:00 Prevalence, awareness, treatment, and control of hypertension in main ethnic groups in Kazakhstan**
A Mereke (Almaty,KZ)

- 08:00** **Strain analysis by two-dimensional speckle tracking echocardiography for evaluating left ventricular systolic function in women with pre-eclampsia**
V Giorgione (- ,GB)
- 08:00** **The role of antihypertensive therapy and bariatric surgery in achieving the pulse wave velocity target level in men with arterial hypertension and obesity**
- 08:00** **A new invasive method to assess pulse wave velocity during cardiac catheterization**
A Scalia (La Louviere,BE)
- 08:00** **The behavior of systolic blood pressure variability indices in the SPRINT trial. A Randomized Clinical Trial**
- 08:00** **Predictors of blood pressure response after renal denervation beyond pretreatment blood pressure**
R Schmieder (Erlangen,DE)
- 08:00** **Ophthalmic artery doppler measurements and cardiovascular assesment in pregnancies with placental dysfunction**
C Di Fabrizio (- ,GB)
- 08:00** **What are the factors associated with uncontrolled blood pressure in Brazilian hypertensive patients?**
- 08:00** **Causal and observational evidence on the role of early menopause in hypertension.**
ZM Roa Diaz (Bern,CH)
- 08:00** **Evaluation of the effectiveness of statin and spironolactone by the influence on indicators of vascular stiffness in patients with arterial hypertension**
O Fedorishina (Irkutsk,RU)
- 08:00** **Efficacy of angiotensin receptor neprilysin inhibitor in Asian patients with refractory hypertension**
W Song (Dalin,CN)
- 08:00** **March, September and December months with the greatest influence of atmospheric pressure on blood pressure in patients with hypertension**
- 08:00** **Low testosterone accelerates vascular damage in hypertensive smokers with more than a 20-pack-year smoking history**
- 08:00** **Tobacco cigarette smoking accelerates impairment of aortic elastic properties in middle-aged patients with high normal blood pressure**
- 08:00** **Influences of smoking on central blood pressure in hypertensive subjects**
H Takase (Hamamatsu,JP)

Learning Objectives:

Categories:

Risk Factors and Prevention ePosters

Session Number: 402

Chairpersons:

- 08:00 High risk characteristics in patients with hypertrophic cardiomyopathy for predicting cardiovascular events**
B Keskin (Istanbul,TR)
- 08:00 Cardiac biomarkers as prognosticators among SARS-CoV-19 patients in a tertiary hospital in Philippines**
R Ong (Makati,PH)
- 08:00 Prevalence of atherosclerosis risk factors in Egyptian patients with acute coronary syndromes; final data of the nationwide cross-sectional CardioRisk project**
A Bendary (Banha,EG)
- 08:00 Anaerobic threshold in cardiac complications prognosis in gastric and esophageal cancer surgery**
P Chomakhidze (Moscow,RU)
- 08:00 SF-12 Physical and Mental Health Scales predict cardiovascular events after hospitalization**
R Gascuena (Leganes,ES)
- 08:00 Comparison of traditional versus artificial intelligence based coronary artery disease risk prediction scores in young patients with acute coronary syndrome**
S Vohra (Lucknow,IN)
- 08:00 Effect of physical activity on mortality and hospitalization for lower respiratory tract infection in patients with cardiovascular disease**
M Jung (Hwaseong-Si,KR)
- 08:00 Arterial stiffness measured according to the Cardio-Ankle Vascular Index in the persons with pre-diabetes and diabetes mellitus in the population sample of the Russian Federation**
- 08:00 Weight loss therapy in obese hypertensive patients: the effect of orlistat versus metformin**
- 08:00 Assessment of exercise training program effects on ischemia modified albumin serum levels by 4 different laboratory methods**
G Zaid (Haifa,IL)
- 08:00 Prospective analysis of gender-related characteristics in relation to cardiovascular disease in a population-based cohort in Amsterdam: the HELIUS study**
R Bolijn (Amsterdam,NL)
- 08:00 The association of soluble ACE2 change with metabolic health, body composition and proteome dynamics during a weight loss diet intervention: implications for the COVID-19 pandemic**
N Cauwenberghs (Leuven,BE)
- 08:00 Efficacy of vitamin D alone or in combination with weight-reduction programs in weight loss among adults with above-normal BMI: a systematic review and meta-analysis**
J Guevara (Quezon City,PH)
- 08:00 Cardioprotective diet in Siberian residents: The PURE study**
D Tsygankova (Kemerovo,RU)
- 08:00 Circulating trimethyllysine predicts total and cardiovascular mortality in patients with and without coronary heart disease**

- 08:00** **Should we really avoid fat in diet? the beneficial effects of low carbohydrate diet versus low fat diet on cardiovascular health: a systematic review and meta-analysis**
A Ishak (Nicosia,CY)
- 08:00** **Relationship between cardiovascular risk factors and adipocytokines gene expression in local fat depots**
Y Dyleva (Kemerovo,RU)
- 08:00** **Features of the nutritional status of coronary heart disease patients with obesity.**
A Galchenko (- ,RU)
- 08:00** **Comparative study of the bioactive compounds of olive products on cardioprotection from ischemia-reperfusion injury in mice with metabolic syndrome**
A Christodoulou (- ,GR)
- 08:00** **Features of the vitamin status in patients with obesity, arterial hypertension and angina pectoris.**
I Lapik (Moscow,RU)
- 08:00** **Achilles tendon thickness assessed by X-ray predicting a pathogenic mutation in familial hypercholesterolemia gene**
H Tada (Kanazawa,JP)
- 08:00** **Polypill for cardiovascular disease prevention: systematic review and meta-analysis of randomized controlled trials**
M Mohamed (- ,US)
- 08:00** **Diastolic function: which sport disciplines show an impact? Data from the world masters athletics championships 2018**
- 08:00** **Obesity strongly predicts COVID-19-related major clinical adverse events in Coptic Clergy**
I Bytyci (Prishtina,XK)
- 08:00** **Combined cardiac risk factors predict COVID-19 related mortality and the need for mechanical ventilation in Coptic Clergy**
I Bytyci (Prishtina,XK)
- 08:00** **Impact of a 12-week supervised exercise program on weight loss trajectory, daily physical activity levels and sedentary behaviors after bariatric surgery**
- 08:00** **Impact of thrombophilia and waist circumference on the risk of venousthromboembolism**
- 08:00** **Troponin T in COVID-19 hospitalized patients: kinetics matter**
ML Luchian (Brussels,BE)
- 08:00** **Low levels of dihomogamma-linolenic acid are associated with all-cause death in elderly patients with a recent myocardial infarction.**
DW Nilsen (Stavanger,NO)
- 08:00** **Immediate implementation of three 2019 european society of cardiology guidelines in daily practice**
H Sarnighausen (Lueneburg,DE)

08:00	Role of statins in patients with MINOCA. A systematic review and meta-analysis. LM Lobo (Lujan,AR)	
08:00	Relationship between morphometric parameters of epicardial adipose tissue and adipocytokine profile in patients with myocardial infarction	
08:00	Incomplete functional reverse remodelling of the left ventricle one year after bariatric surgery. Insights from the prospective FatWest study. LM Grymyr (Bergen,NO)	
08:00	Polypill and its association with cardiovascular morbidity and mortality: meta-analysis from randomized controlled trials	
08:00	Remnant cholesterol in patients with established cardiovascular disease predicts cardiovascular events both among patients with type 2 diabetes and among non-diabetic subjects	
08:00	Type 2 diabetes significantly modulates the power of lipoprotein(a) to predict cardiovascular events and mortality in young coronary artery disease patients	
08:00	The ceramide- and phosphatidylcholine- based Coronary Event Risk Test2 (CERT2) and cardiovascular mortality in men and women with type 2 diabetes	
08:00	Differing relations of arterial stiffness and carotid intima-media thickness in adolescence with cardiometabolic risks in young adulthood: The ALSPAC study	Withdrawn
08:00	Lean or obese, the epicardial fat thickness is increased in diabetics of south india - is it a south indian paradox ? R Rameshwar (Chennai,IN)	
08:00	Reduction in the risk of MACE with apabetalone in patients with recent acute coronary syndrome and diabetes according to NAFLD fibrosis score: exploratory analysis of the BETonMACE trial	
08:00	Sex differences in the effect of family stress on risk of myocardial infarction and stroke in population 25-64 years: WHO program MONICA-psychosocial	
08:00	Neurological outcome at 30-day as an estimator of 1-year functional status after out-of-hospital cardiac arrest with post-encephalopathy G Nitta (Saitama,JP)	
08:00	DPP4 inhibitors as a risk factor for QTC interval prolongation among type 2 diabetic patients	
08:00	Metabolic improvement during short-term treatment with a GLP-1 receptor agonist does not improve cardiac diastolic function in patients type 2 diabetes: a randomized double-blind placebo-controlled tr	
08:00	Effect of revascularization on exercise-induced changes in cardiac and pro-thrombotic biomarkers in patients with coronary artery disease CH Hansen (Oslo,NO)	

08:00	Gut leakage markers in response to strenuous exercise in patients with suspected coronary artery disease S Aune (Oslo,NO)	
08:00	The impact of diabetes mellitus on carotid atherosclerosis and arterial stiffness; results from the Corinthia study P Theofilis (Vari,GR)	
08:00	A systematic review and meta-analysis of effect of yoga and meditation on endothelial system	
08:00	Association of adipose tissue insulin resistance and serum free fatty acid levels with the incidence of type 2 diabetes: a retrospective cohort study N Sasaki (Hiroshima,JP)	
08:00	Traditional and novel cardiometabolic risk markers across strata of body mass index in young adults	Withdrawn
08:00	Associations of circulating polyunsaturated fatty acids with coronary artery calcium score in hospitalized patients with suspected coronary artery disease I Karaji (Bergen,NO)	
08:00	Traditional risk factor control in the Russian cohort of the hospital arm of EUROASPIRE V survey as compared to the whole study population N Pogosova (Moscow,RU)	
08:00	More than the half number of the severe CAD patients without features of metabolic syndrome had hyperlipoprotein(a)-emia T Kasahara (Yonago,JP)	
08:00	One-year impact of bariatric surgery on echocardiographic markers of vascular disease: results from the prospective FatWest study D Cramariuc (Bergen,NO)	
08:00	GLP-1 RA benefits in different age groups in cardiovascular outcomes trials	Withdrawn
08:00	MicroRNA profile analysis in pericoronary adipose tissue of diabetic patients with significant coronary artery disease M Marketou (Heraklio,GR)	
08:00	Risk factors in young patients with myocardial infarction: what is different from the general population? H Wienbergen (Bremen,DE)	
08:00	Metabolic syndrome is related to vascular structural alterations but not to functional one both in hypertensives and healthy subjects	
08:00	Residual cardiovascular risk of patients with dyslipidemia receiving multifactorial cardiovascular prevention therapy F Barkas (Ioannina,GR)	
08:00	Statin-associated muscle symptoms in clinical practice: evidence from a 6-year retrospective study F Barkas (Ioannina,GR)	
08:00	Association of residential distance to coast with myocardial infarction: a prospective cohort study	

- 08:00 **Genetically determined risk of mood swings and cardiometabolic diseases: mendelian randomization study**
XD Zhuang (Guangzhou,CN)
- 08:00 **Cardiovascular risk prediction in type 2 diabetes: a comparison of 22 risk scores in primary care setting**
K Dziopa (- ,PL)
- 08:00 **Fibroblast growth factor 21 and adipose tissue distribution in young adult with abdominal obesity**
E Zheleznova (Moscow,RU)
- 08:00 **Do health care physician need to risk their own lives? Time to change our own attitude towards recommended physical activity.**
SAL Memon (Karachi,PK)
- 08:00 **BNP/ NT-pro BNP thresholds for the assessment of the prognosis in patients without heart failure**
S Hendricks (Essen,DE)
- 08:00 **Exercise training modalities for heart transplant recipients: a systematic review and network meta-analysis**
J Beust De Lima (Porto Alegre,BR)
- 08:00 **Effectiveness, adherence and safety of evolocumab in a Swiss multicenter prospective observational study**
D Nanchen (Lausanne,CH)
- 08:00 **Patient reported health status and cardiovascular risk factors in a remote area of South America: a cross-sectional study**
A Holm (Copenhagen,DK)
- 08:00 **Specific risk factors profile and abstinence rate of female smokers at high cardiovascular risk from the nationwide smoking cessation services cohort CDT-net**
I Allagbe (Dijon,FR)
- 08:00 **Evaluation of basic nutritional parameters in older adults treated with percutaneous coronary intervention**
D Marti Sanchez (Madrid,ES)
- 08:00 **Psychosocial and behavioral characteristics of still smokers at 6 months after acute cerebro or cardiovascular events: preliminary findings from INEV@L, a prospective pilot study**
- 08:00 **Characteristics and prognosis of patients with elevated triglycerides in acute myocardial infarction: observational data from a large database over a 17 years period**
M Farnier (Fixin,FR)
- 08:00 **Cardiovascular risk profile of a young adult population with high risk for obstructive sleep apnea screened by Stop-Bang and Epworth sleepiness scale in a primary health care unit**
M Kuster (- ,BR)
- 08:00 **Metabolically healthy obesity in a young population assisted by the Family Health Strategy in Brazil. LapARC study.**
C Avelar Mendes De Vasconcellos (- ,BR)
- 08:00 **Noise exposure at the place of residence and atherothrombotic risk. Findings from ENVI-MI (Environment and Myocardial Infarction) study.**

- 08:00 Higher ratio of plasma nitric oxide to asymmetric dimethylarginine levels affects aerobic exercise training-induced reduction of arterial stiffness in middle-aged and older adults**
- 08:00 Remnant cholesterol is an independent determinant of the presence and extent of subclinical carotid atherosclerosis in statin-naïve individuals.**
D Delialis (Athens,GR)
- 08:00 Nationwide cardiovascular disease risk prediction identifies gaps in primary preventive statin treatment**
DM Christensen (Kobenhavn K,DK)
- 08:00 Positive family history of premature coronary artery disease and long-term mortality in patients undergoing conventional coronary angiography . The ECAD registry**
M Karout (Moers,DE)
- 08:00 Reduced adrenal stress response in patients on PCSK9 inhibitor therapy**
- 08:00 LDLc reduction with fixed-dose combination rosuvastatin-ezetimibe in patients with coronary heart disease that are not candidates for PCSK9 inhibitors treatment**
A Cordero (Alicante,ES)
- 08:00 Novel insights into the management of German patients with very high cardiovascular risk eligible for PCSK9 inhibitor treatment: baseline characteristics from the PERI-DYS study**
- 08:00 Are there any long-term cardio-pulmonary limitations of hospitalized Covid-19 patients?**
R Badr Eslam (Vienna,AT)
- 08:00 High plasma D-dimer and von Willebrand factor levels are associated with increased risk of upper gastrointestinal bleeding in patients with chronic coronary syndromes receiving long-term antiplatelet**
- 08:00 High plasma D-dimer and von Willebrand factor levels are associated with risk of upper gastrointestinal bleeding in patients with chronic coronary syndromes receiving long-term antiplatelet therapy.**
V Korobkova (Moscow,RU)
- 08:00 The association between methylation in specific cpg sites of slc6a4 gene promoter region and prognosis of acs patients with different level of burnout**
H Zhang (- ,CN)
- 08:00 2MACE score predicts cardiovascular adverse events in real-world atrial fibrillation patients under rivaroxaban therapy. Data from EMIR study**
M Esteve Pastor (Elche - Alicante,ES)
- 08:00 Clinical and radiological testing for subclinical atherosclerosis in first-degree relatives of patients with premature coronary artery disease: feasibility and diagnostic yield.**
D Vikulova (Vancouver,CA)
- 08:00 How common is undiagnosed prediabetes or type 2 diabetes mellitus in the cardiology ward?**

- 08:00 The relationship between visceral fat depots and markers of renal dysfunction in patients with borderline arterial hypertension and obesity**
P Erbes (Perm,RU)
- 08:00 Clinical utility of readily available novel markers of carotid atherosclerotic burden for reclassification and discrimination of very high cardiovascular risk**
G Mavraganis (Athens,GR)
- 08:00 Socioeconomic position and initiation of SGLT-2 inhibitors or GLP-1 receptor agonists in patients with type 2 diabetes - a Danish nationwide observational study**
AC Falkentoft (Copenhagen,DK)
- 08:00 Inter-relationships of different electrocardiographic indicators of left ventricular hypertrophy in 25,000 Chinese adults**
I Chaikovsky (Kiev,UA)
- 08:00 Cumulative prognostic effect of diabetes and myocardial injury in patients attended in the emergency room.**
V del Moral Ronda (Tarragona,ES)
- 08:00 Differences in hypercholesterolemia patient management in secondary and primary care: lessons learned from the German PROCYON survey**
O Weingaertner (Jena,DE)
- 08:00 Different perspectives of patients and physicians on LDL-C target achievement in the treatment of hypercholesterolemia: results on secondary prevention from the German PROCYON survey**
K Stein (- ,DE)
- 08:00 Ambulatory arterial stiffness index predicts SCORE project derived vascular age in patients without cardiovascular disease**
- 08:00 Association of glycated haemoglobin A1c levels with cardiovascular outcomes in the general population: results from the BiomarCaRE consortium**
C Sinning (Hamburg,DE)
- 08:00 Effect of endothelial nitric oxide synthase gene polymorphism on cardiovascular death and nonfatal myocardial infarction in Japanese general population**
- 08:00 Prediction of future atherosclerosis in 13 years from young asymptomatic adults**
Q Huynh (Melbourne,AU)
- 08:00 Comparison of coronary atherosclerotic features in response to achieving LDL-C <55 mg/dl between non-diabetic and diabetic patients: insights from the REASSURE-NIRS registry**
- 08:00 Structure and predictors of repolarization disorders in patients with severe covid-infection**
TD Danilevych (Vinnitsa,UA)
- 08:00 Subdepression effect on the therapeutic and prophylactic activity of patients with existing coronary artery disease**
V Veretyuk (Novosibirsk,RU)
- 08:00 Geriatric depression and quality of life in atrial fibrillation: the geriatric population analysis**

K Senoo (Kyoto,JP)

- 08:00 Risk factors, subsequent disease onset and prognostic impact of myocardial infarction and atrial fibrillation**
- 08:00 Sympathetic nerve activity changes following acute exposures to electronic and tobacco cigarette smoking in humans**
K Dimitriadis (Athens,GR)
- 08:00 Beta-receptor desensitization after a multistage ultralong distance exercise in the desert?**
F Chague (Dijon,FR)
- 08:00 Tobacco-related risk behaviors among amateur rugby players, coaches and referees: targets for prevention.**
F Chague (Dijon,FR)
- 08:00 Key aspects of statin intolerance leading to treatment discontinuation: a patient perspective**
M Vrablik (Prague 2,CZ)
- 08:00 Association of nephronophthisis 4 genetic variation with cardiorenal syndrome and cardiovascular events in Japanese general population: The Yamagata (Takahata) Study**
Y Otaki (Yamagata,JP)
- 08:00 A prospective, multicenter, epidemiological study of the prevalence of cardiovascular risk factors in hypertensive patients in Greece, the WIN-HAZARD study**
D Richter (Athens,GR)
- 08:00 Inhibition of myeloid differentiation factor 2 by MAC28 suppresses reactive oxygen species, inflammation and improves mitochondrial function, leading to improved cardiac function in prediabetic rats**
N Sumneang (- ,TH)
- 08:00 Lifestyle modification based on cluster cardiovascular risk assessment reduced the risk of sleep apnea**
Y Guo (Beijing,CN)
- 08:00 Imaging-based body fat depots and new-onset atrial fibrillation in general population**
- 08:00 The effectiveness of strict low-density lipoprotein cholesterol management in secondary prevention of Japanese patients**
A Endo (Izumo,JP)
- 08:00 The significant role of coronary artery calcification score in asymptomatic patients with metabolic syndrome**
- 08:00 A-posteriori protein-rich dietary patterns and their association with ten-year transition to metabolically unhealthy status: highlights from a population-based cohort study**
M Kouvari (Athens,GR)
- 08:00 The quality of plant-based dietary patterns affects the ten-year cardiovascular disease risk of participants with non-alcoholic fatty liver disease: highlights from a population-based cohort study.**
M Kouvari (Athens,GR)

- 08:00 Increased lipoprotein(a) multiplies coronary heart disease risk in patients with familial hypercholesterolemia**
F Barkas (Ioannina,GR)
- 08:00 Ultra-processed foods and ten-year cardiovascular disease incidence in a Mediterranean population: results from a population-based cohort study**
M Kouvari (Athens,GR)
- 08:00 Employment status three years after percutaneous coronary intervention- a nationwide prospective cohort study**
S Olsen (Harstad,NO)
- 08:00 Impact of type 2 diabetes mellitus on clinical outcomes in patients with COVID-19 and cardiovascular disease**
- 08:00 Is there a different impact of traditional risk factors on calcium score, in an asymptomatic population?**
- 08:00 Epicardial adipose tissue is associated with exercise intolerance in patients with diabetes with asymptomatic left ventricular structural and functional abnormalities**
- 08:00 Epicardial adipose tissue (EAT) volume is related to subclinical atherosclerosis and major adverse cardiovascular events (MACE) in asymptomatic subjects**
- 08:00 Physical activity trajectories are associated with the risk of all- cause and cardiovascular disease mortality in patients with coronary heart disease. A systematic review and meta-analysis**
- 08:00 Improving primary prevention of hypertension using a social networking site**
M Bezzubtseva (Voronezh,RU)
- 08:00 Sex modifies the association between body mass index and carotid artery intima media thickness in the multi-ethnic Singapore population**
R Dalan (Singapore,SG)
- 08:00 Anticipating recurrent ischemic events after an acute coronary syndrome: validation and application of the SMART-REACH score**
- 08:00 Prevalences and incidences of cardiovascular and renal diseases in type 1 compared with type 2 diabetes: a nationwide observational study**
L Fauchier (Tours,FR)
- 08:00 Atherosclerotic cardiovascular risk and simulation of lipid-lowering therapy in China**
L Bi (- ,CN)
- 08:00 Does incidental calcium deposition in non-cardiac CT scans predict cardiovascular morbidity and mortality in young adults? A retrospective study.**
A Aker (- ,IL)
- 08:00 Abdominal obesity is independently associated with width of QRS complex: a cross-sectional study using health checkup data from aged <40 years populations**
S Kawasoe (Kagoshima,JP)

- 08:00 Predictors of deterioration in cardiorespiratory fitness among healthy adults: the importance of sex and obesity**
A Kaplan (Beer Shev,IL)
- 08:00 Clinical epidemiology and costs of type 2 diabetic patients with or without prior coronary artery disease or stroke. A longitudinal 5-year claims-data analysis of over 7 million inhabitants**
AP Maggioni (Milano,IT)
- 08:00 Introduction of alternative rehabilitation method for the patients with cardiovascular diseases in conditions of the COVID-19 pandemic**
R Nesterak (Ivano-Frankivsk,UA)
- 08:00 Characterization of cholesterol efflux capacity in diabetic and non-diabetic patients with coronary artery disease: comparison between acute coronary syndrome and stable coronary artery disease**
S Funabashi (Osaka,JP)
- 08:00 Arterial stiffness increase from adolescence to young adulthood is accelerated by smoking and alcohol use**
H Walford (- ,GB)
- 08:00 Daily calorie intake and efficacy of 24-hours blood pressure control in hypertensive patients with obesity on stable antihypertensive therapy**
A Isayeva (Kharkov,UA)
- 08:00 Comparison between a genetic risk score and the european SCORE in cardiovascular events prediction in a primary prevention population**
- 08:00 Higher plasma level of small dense low-density lipoprotein cholesterol in ST-segment-elevation myocardial infarction patients with plaque rupture**
T Arai (Tokyo,JP)
- 08:00 Psoriasis and its impact on the clinical outcome of patients with pulmonary embolism**
K Keller (Mainz,DE)
- 08:00 Disentangling the association between kidney function and atrial fibrillation: a bidirectional Mendelian randomization study**
- 08:00 Epicardial adipose tissue volume improves cardiovascular risk reclassification: the Framingham Risk Score example**
- 08:00 Impact of smoking cessation on depression after acute coronary syndrome**
- 08:00 Intervention-specific association of weight variability with major adverse cardiovascular events in overweight or obese adults with type 2 diabetes mellitus**
XD Zhuang (Guangzhou,CN)
- 08:00 Sex differences in sudden cardiac death: a nationwide study of 54,028 deaths in Denmark**
T Skjelbred (Copenhagen,DK)
- 08:00 Predicting stroke risk in Chinese hypertensive population using machine learning**
X Huang (Nanchang,CN)
- 08:00 Residual risk after acute coronary syndrome: the PRATO-ACS Registry**

- 08:00 Associations between GUCY1A3 genetic polymorphisms and prior cardiovascular events in Chinese Han population undergoing cardiovascular surgery: a cross-sectional study**
ZL Li (Shanghai,CN)
- 08:00 Treatment patterns in patients with Familial hypercholesterolemia: evidence from real-world studies in Germany and the UK**
I Gouni-Berthold (Bonn,DE)
- 08:00 A real-world assessment of treatment patterns in patients with atherosclerotic cardiovascular disease with hypercholesterolemia: a retrospective database analysis in Germany**
I Gouni-Berthold (Bonn,DE)
- 08:00 Premature atherosclerotic cardiovascular disease: association of clinical factors with form of atherosclerosis onset**
AA Rogozhina (Moscow,RU)
- 08:00 Cardiovascular disease risk factors and cognitive functions in older Russian adults**
A Titarenko (- ,RU)
- 08:00 The frequency and profile of lipid lowering treatment in a contemporary Russian population**
- 08:00 Cardiovascular predictors associated with poor short-term prognosis in patients diagnosed with SARS-CoV-2 in Spain**
L Esteban-Lucia (Madrid,ES)
- 08:00 Efficacy of folic acid therapy for the association between high serum vitamin B12 level with all cause mortality among hypertensive population: the CSPPT randomized clinical trial post-hoc analysis**
T Cao (Beijing,CN)
- 08:00 The combination of dulaglutide and dapagliflozin improves arterial stiffness, endothelial glycocalyx and albuminuria vs dpp4 inhibitors independently of glycemic control**
- 08:00 Echocardiographic parameters of myocardial work in relation to prolonged strenuous physical exercise**
C Erevik (Stavanger,NO)
- 08:00 Impact of the first coronavirus-disease pandemic wave on cardiovascular admissions and sudden cardiac death rates in Greece.**
E Pagourelas (Thessaloniki,GR)
- 08:00 Health promoting and risky behaviours of nurses, taking into account "coronary prone behaviour pattern"**
- 08:00 HF and CKD present a dire prognosis in young Type 2 Diabetic patients**
D Seabra (Vila Do Conde,PT)
- 08:00 Cardiac troponin as major mortality risk factor in SARS-CoV-2 infection.**
A Gonzalez Leal (Madrid,ES)
- 08:00 Obesity prevalence and associations with socio-economic and behavioral factors in population-based studies in Russia and Norway, 2015-2017**

- 08:00 Prognosis of diabetes mellitus and timing of heart failure in patients with acute myocardial infarction. An analysis of a French nationwide hospital database.**
L Fauchier (Tours,FR)
- 08:00 A 10-year follow-up study of the cardiovascular risk factors in children aged 6-16 years**
H Triantafyllidi (Athens,GR)
- 08:00 Atherothrombotic residual risk in coronary and peripheral artery disease patients on guideline-recommended antiplatelet monotherapy: baseline preliminary results from the RESRISK study**
AJ Vallejo-Vaz (London,GB)
- 08:00 Very low high-density lipoprotein-cholesterol and long-term mortality**
I Dykun (Essen,DE)
- 08:00 Relationship between heart rate variability, low grade inflammation and glycated hemoglobin. A sugary sweet story.**
- 08:00 Experience of using of IPCSK9 in patients with very high cardiovascular risk in real life**
M Galvan Ruiz (Las Palmas De G. C.,ES)
- 08:00 Coronary artery calcium in patients with atrial fibrillation undergoing catheter ablation - an opportunity to personalize cardiovascular and thromboembolic risk management**
S Fernandes (Guarda,PT)
- 08:00 Anxiety in MINOCA patients according to latest definitions**
B Izquierdo Coronel (Madrid,ES)
- 08:00 Cardiovascular primary prevention risk factors in a nationwide survey, ABC (atrial fibrillation, high blood pressure and high cholesterol) risk factors in the LIPIDOGram2015 study**
O Greaves (- ,GB)
- 08:00 Cardiovascular risk assessment in people living with HIV compared to the general population**
B Delabays (Lausanne,CH)
- 08:00 First-degree relatives of type-2 diabetic patients and dysglycaemic patients have impaired endothelial function due to decreased bioavailability of nitric oxide**
- 08:00 Coronary artery disease and familial hypercholesterolaemia patients' eligibility for pcsk-9 inhibitors: who is to benefit from lower ldl thresholds?**
I DIMA (Athens,GR)
- 08:00 Effect of SGLT2 inhibition on coronary microvascular function in patients with type 2 diabetes**
- 08:00 Effect of glucagon-like peptide-1 receptor agonists, sodium-glucose cotransporter-2 inhibitors and their combination on left atrial strain and arterial function.**
- 08:00 Patients presenting with acute coronary syndromes have unreported coronary artery calcium on historical CT imaging**

- 08:00 Novel multidisciplinary cardiometabolic clinic in a UK tertiary cardiology centre: early activity, interventions and potential for cardiovascular risk optimisation**
R Narain (Sutton,GB)
- 08:00 Longitudinal high-sensitivity C-reactive protein and long-term cardiovascular outcomes in optimally-treated patients with high-risk vascular disease**
I Dykun (Essen,DE)
- 08:00 Mild renal dysfunction is associated with increased risk of ischemic heart disease among healthy adults**
S Tiosano (Ramat Gan,IL)
- 08:00 Association between air pollution and case-specific mortality in north-eastern part of Poland. Case crossover study with 4,500,000 person-years of follow-up.**
M Swieczkowski (Kolno,PL)
- 08:00 Insomnia incidence in myocardial infarction with and without obstructive coronary arteries**
B Izquierdo Coronel (Madrid,ES)
- 08:00 HbA1c, coronary atheroma progression and cardiovascular events**
I Dykun (Essen,DE)
- 08:00 Role of sex and gender in access to care and cardiovascular complications of individuals with diabetes mellitus**
- 08:00 Comparing rapid scoring systems used in patients with cardiovascular risk in the long-term mortality prediction**
- 08:00 Are current scores enough to effectively predict long-term cardiovascular mortality?**
- 08:00 Application of the 2019 ESC/EAS dyslipidemia guidelines to a Mexican population: evaluating treatment targets for secondary prevention in clinical practice**
CI Laguna Munoz (Aguascalientes,MX)
- 08:00 Prospective associations between multidimensional religiosity/spirituality and cardiovascular risk factors in the english longitudinal study of ageing**
V Neves (Rio De Janeiro,BR)
- 08:00 Obesity and decreased vibration perception associated with premature cardiovascular mortality in a single center prospective study of people with diabetes**
D Andric (Novi Sad,RS)
- 08:00 Effect of statin on progression of degenerative aortic root dilatation**
A Eswarsingh (- ,US)
- 08:00 Arterial stiffness and valvular calcifications in aortic stenosis: caught between a rock and a hard place**
V GARDIKIOTI (Athens,GR)
- 08:00 Familial hypercholesterolemia in acute coronary syndrome patients: underdiagnosis in female and in young patients**
P Garcia Bras (Lisbon,PT)

- 08:00 Marketing mortality? healthy vs. unhealthy food in television advertising**
- 08:00 Progression of carotid intima-media thickness in patients treated with lipoprotein apheresis: real-world evidence over 12 years**
- 08:00 Evaluation of the effects of interval hypoxic-hyperoxic training in patients with metabolic syndrome.**
A Bestavashvili (Moscow,RU)
- 08:00 Gender differences low-density lipoprotein cholesterol reduction with PCSK9 inhibitors in real world patients**
A Cordero (Alicante,ES)
- 08:00 Risk assessment of thromboembolism in COVID-19 patients with cardiovascular disease risk factor - LASSO analysis from Japanese nationwide registry.**
E Shibahashi (Sinjyuku,JP)
- 08:00 A novel NKX2-5 double variant corresponds with familial atrial septal defect with arrhythmia in Indonesia**
R Rozqie (Yogyakarta,ID)
- 08:00 Prediction of congestive heart failure in patients using artificial intelligence: proof of concept**
M Pana (Bucharest,RO)
- 08:00 Discriminatory accuracy of the SOFA score for determining clinical decompensation in patients presenting with COVID-19**
N Krepostman (- ,US)
- 08:00 A real-world analysis of characteristics and lipid-lowering therapy use in patients initiating treatment with evolocumab in Sweden**
- 08:00 Predictors of clinical decompensation in patients presenting with COVID-19 in an urban hospital health system**
N Krepostman (- ,US)
- 08:00 Potential cardiovascular risk reduction with evolocumab in the real world: a simulation in patients with a history of myocardial infarction from the HEYMANS register**
- 08:00 Ambulatory blood pressure variability measures in hypertensive patients according to Non-Alcoholic Fatty Liver Disease state**
N Kakouri (Arhens,GR)
- 08:00 Psychological profile of COVID-19 pneumonia survivors three month after hospitalization**
E Yaroslavskaya (Tyumen,RU)
- 08:00 Depression and anxiety screening improves cardiovascular risk prediction in population-based sample of 4,750 russian individuals**
V Rezapova (- ,RU)
- 08:00 Meta-Analysis of COVID-19 treatments on patients with a previous diagnosis of cardiovascular disease**
S Ben-Aicha (London,GB)
- 08:00 Potential low-density lipoprotein cholesterol, cardiovascular risk and costs reduction with evolocumab: a simulation in patients with a recent myocardial**

- 08:00 Association of food intake with cardiometabolic diseases among filipino adults**
P Lusica (- ,PH)
- 08:00 Trend of ischemic heart disease mortality attributable to metabolic, behavioral, and environmental risk factors in the past two decades**
Z Aryan (La Jolla,US)
- 08:00 Reduction of cardiovascular events in patients with cardiovascular disease with the CV-polypill: a retrospective and propensity score matching study**
JR Gonzalez Juanatey (Santiago De Compostela,ES)
- 08:00 Clinical Deep Data Accumulation System (CLIDAS) reveals lipid paradox in guideline-defined high risk Japanese patients after PCI**
T Matoba (Fukuoka,JP)
- 08:00 Atherosclerosis risk factors may be underestimated in patients with pulmonary hypertension associated with congenital heart disease - results of Polish snapshot registry**
- 08:00 Characteristics of patients with a lipoprotein(a) assessment - a health insurance claims database analysis**
- 08:00 Correlations between sympathetic nervous system activity and smoking, as well as unattended blood pressure in essential hypertension**
E Manta (Athens,GR)
- 08:00 The prognostic impact of fibroblast growth factor-23 on cardiovascular death after cardiac surgery**
- 08:00 Efficacy and safety of e-cigarette use for smoking cessation: a systematic review and meta-analysis of randomized controlled trials**
- 08:00 Treatment with a fixed dose combination for cardiovascular disease-more than a health benefit?**
I DIMA (Athens,GR)
- 08:00 Reduced progression of carotid intima media thickness by pictorial presentation of subclinical atherosclerosis 3-year follow-up from VIPVIZA a randomized controlled trial**
E Nyman (Umea,SE)
- 08:00 Usefulness of carotid and femoral plaque burden quantification by 3-dimensional vascular ultrasound for cardiovascular risk assessment in the cardiovascular disease prevention unit**
B Lopez Melgar (Madrid,ES)
- 08:00 Association between ankle-brachial index and cardiovascular mortality in a cohort from the United States of America**
P Penson (Liverpool,GB)
- 08:00 Evaluation of pulse wave velocity for predicting major advanced cardiovascular events in patients with chronic myocardial infarction**
Z Meiszerics (Pecs,HU)
- 08:00 Clinical features of familial hypercholesterolaemia in children and adults - the**

- 08:00** **Distribution and risk profile of atrial fibrillation patterns among women and men from the general population**
MJ Tilly (Rotterdam,NL)
- 08:00** **Clinical and genetic markers of prehypertension in North-Western Russian population**
- 08:00** **Sport-related acute myocardial infarction. Contemporary data from IMACS survey**
F Chague (Dijon,FR)
- 08:00** **"ACTUA" project: secondary prevention in patients at high-cardiovascular risk**
- 08:00** **Adverse coronary plaque characteristics are more common in patients with diabetes**
J Simon (Budapest,HU)
- 08:00** **Change in framingham cardiovascular disease risk between 2003 and 2014 in the hong kong population health survey**
B Sung (- ,TW)
- 08:00** **Associations of red meat, poultry, fish and egg intake with risk of cardiovascular disease: an 11-year prospective study of the China Kadoorie Biobank**
M Kakkoura (- ,GB)
- 08:00** **Associations between serum triglycerides and abdominal aortic calcification in a cross-sectional study from the United States of America**
P Penson (Liverpool,GB)
- 08:00** **Lipoprotein(a) levels are not independently associated with endogenous steroid hormone levels, in contrast to other non-genetic and genetic factors: the population-based SKIPOGH study**
- 08:00** **Intervention to decrease salt intake inadequacy using a control device to monitor and control salt use when cooking at home - iMC SALT preliminary results**
C Goncalves (Porto,PT)
- 08:00** **Assessing the effect of ultra-small phospholipid nanoparticles on biochemical parameters of carbohydrate and fat metabolism in patients with combined hyperlipidemia**
- 08:00** **Lipoprotein (a) and cardiovascular risk in familial combined hyperlipidaemia: does it exist?**
I DIMA (Athens,GR)
- 08:00** **Modified CHA2DS2-VASc can predict mortality in COVID-19 patients admitted to the emergency department**
BV Silva (Lisbon,PT)
- 08:00** **Cost-effectiveness of the CNIC-polypill strategy for the secondary prevention of CV disease in male and female patients with established coronary heart disease based on improved risk factor control**
- 08:00** **Changes of resting cardiac marker levels due to sport adaptation**

M Babity (Budapest,HU)

08:00 Analysis of LpA levels in young patients after ACS: getting to know less famous risk factors

M Luna (Malaga,ES)

08:00 Sleep disorders and insulin resistance: data of an epidemiological study

L Korostovtseva (St Petersburg,RU)

08:00 Associations between changing patterns of ST-T waves morphologies in rest electrocardiography and cardiovascular risk in an asymptomatic low risk population: a report from Ansan-Ansung cohort study

Y Lee (Guri,KR)

08:00 The relationship between systemic inflammation and increased left ventricular mass is partly mediated by noncalcified coronary artery disease burden in psoriasis

08:00 Red and processed meat consumption and risk of cardiovascular mortality: Isfahan Cohort Study

08:00 Low testosterone is associated with increased risk of major adverse cardiovascular events in smokers with erectile dysfunction

08:00 Current patterns of pharmacological treatment for coronary heart disease based on the Russian cohort of the hospital arm of the EUROASPIRE V survey

N Pogossova (Moscow,RU)

08:00 Cardiovascular risk profile in Portugal: evidence from a large population-based cohort

Learning Objectives:

Categories:

Rehabilitation and Sports Cardiology ePosters

Session Number: 403

Chairpersons:

- 08:00 Hybrid cardiac telerehabilitation program as a potential strengthening factor in the quality of life in patients with coronary heart disease: a retrospective single-centre analysis**
M Cabral (Leiria,PT)
- 08:00 The effects of dual task training on the neurophysiological parameters in cardiac surgery patients: a pilot study**
I Tarasova (Kemerovo,RU)
- 08:00 Differences in mitral and tricuspid annular geometry in elite athletes with versus without functional mitral regurgitation: a 3D echocardiographic study**
A Fabian (Budapest,HU)
- 08:00 Influence of resistance exercise on cardiac remodeling and soleus muscle of infarcted rats**
M Okoshi (Botucatu,BR)
- 08:00 Effects of physical prehabilitation on markers of endothelial function in patients undergoing elective coronary artery bypass grafting**
Y Argunova (Kemerovo,RU)
- 08:00 Short and medium-term impact of a cardiac rehabilitation (CR) program in COVID-19 patients after acute care hospitalization**
E Venturini (Cecina,IT)
- 08:00 Simultaneous real-time assessment of sportive pilots' stress and performance related to vehicle behavior, during racing with the DIM professional simulator**
- 08:00 Cardiac rehabilitation do not diminish the socioeconomic and ethnical disparity in patients with coronary heart disease**
- 08:00 Effects use neuromuscular electrical stimulation on the lower extremities strength in prehabilitation patients before cardiac surgery**
- 08:00 Correlation between atrial electrocardiographic indexes and left atrial enlargement in competitive athletes. From the ALMUDAINA case-control study.**
C Herrera (Salamanca,ES)
- 08:00 Covid19 Pandemic s impact on management of cardiovascular risk factors in a Phase IIIs period of a Cardiac Rehabilitation Program, fact or fiction?**
- 08:00 Closure of outpatient cardiac rehabilitation during the first COVID-19 lockdown in Austria in spring 2020 resulted in deteriorating physical exercise capacity: a mixed-methods study**
S Kulnik (Salzburg,AT)
- 08:00 Cardiopulmonary exercise testing in COVID-19 patients at 3 months follow-up**
V De Marzo (Foggia,IT)
- 08:00 Features of remote rehabilitation using the developed mobile app in patients after cardiac bypass surgery**
I Lyapina (Kemerovo,RU)
- 08:00 Results of a hybrid cardiovascular rehabilitation program (in-hospital plus home) in patients with low income**
M Garcia-Saldivia (Ciudad De Mexico,MX)
- 08:00 SARS-CoV2 infection: functional and morphological cardiopulmonary changes in**

elite handball players
S Fikenzer (Leipzig,DE)

- 08:00 Relationships between physical capacity and depression in heart failure patients undergoing hybrid comprehensive telerehabilitation vs usual care results of the TELEREH-HF randomized clinical trial**
E Piotrowicz (Warsaw,PL)
- 08:00 Impact of a cardio-oncology rehabilitation program in patients with breast cancer undergoing cardiotoxic treatment**
CC Oliveira (Riberao,PT)
- 08:00 Rehabilitation in post-COVID patients. A single center experience.**
G Halasz (Lugano,CH)
- 08:00 Cardiac rehabilitation in COVID-19 pandemic period**
- 08:00 Cardiovascular evaluation with exercise testing using face mask during the COVID-19 pandemic**
H Ilarraza-Lomeli (Mexico City,MX)
- 08:00 Impact of cardiac rehabilitation on inflammation in patients with ischaemic cardiomyopathy**
R Costa (Porto,PT)
- 08:00 Effect of recreational exercise and fitness on left ventricular torsion and wall mechanics study (FIT-TWIST/Health)**
P Wessly (Surfside,US)
- 08:00 Habitual exercise provides better prognosis for cardiac arrest with coronary artery disease.**
N Kuroki (Tokyo,JP)
- 08:00 Impact of SARS-CoV-2 pandemic in a phase II cardiac rehabilitation programme: looking back.**
R Soria Navarro (Vitoria Gasteiz,ES)
- 08:00 Post-marathon decline in right ventricular radial motion component among amateur sportsmen**
Z Lewicka-Potocka (Gdansk,PL)
- 08:00 Exercise ECG testing in patients without known ischemic heart disease: predictors of ischemia of downstream vasodilator stress cardiac magnetic resonance**
- 08:00 Iron deficiency and athletic performance**
E Csulak (Inarcs,HU)
- 08:00 Early results on the efficacy and acceptability of a cardiac rehabilitation programme that transitioned to a fully virtual platform with adoption of wearable technology for covid era**
- 08:00 The sports cardiology team: personalizing athlete care through a comprehensive, multidisciplinary approach.**
- 08:00 Post-COVID-19 peri- and myocardial manifestations are less common in athletes than in healthy non-athletes: findings from a systematic review**

- 08:00** **Frequent constriction-like echocardiographic findings in elite athletes following mild COVID-19: in the grasp of SARS-CoV-2?**
- 08:00** **Education and lifestyle measures for awareness of syncope prodroms to prevent syncope recurrence in schoolchildren**
V Mair (- ,BR)
- 08:00** **Heterogeneity of cardiorespiratory fitness among brazilian regions and comparison with norwegian values.**
M Milani (Brasilia,BR)
- 08:00** **The impact of mitral regurgitation grade on exercise capacity following cardiac rehabilitation program after transcatheter aortic valve implantation**
M Ribeiro da Silva (Vila Nova De Gaia,PT)

Learning Objectives:

Categories:

Cardiovascular Disease in Special Populations ePosters

Session Number: 404

Chairpersons:

- 08:00** **Implications of prior stroke in patients with three-vessel disease**
N Xu (Beijing,CN)
- 08:00** **The effects of dapagliflozin on kidney and cardiovascular outcomes in patients with chronic kidney disease with and without heart failure**
J L Heerspink (Groningen,NL)
- 08:00** **CHA2DS2-VASc score as independent outcome predictor in patients with acute ischemic stroke with and without atrial fibrillation**
CH Su (Taichung City,TW)
- 08:00** **Type and severity of migraine determines long-term risk of atrial fibrillation in women: a nationwide population-based study**
TM Rhee (Seoul,KR)
- 08:00** **Association between renal function and clinical outcomes in elderly patients with nonvalvular atrial fibrillation: sub-analysis of the ANAFIE Registry**
W Shimizu (Tokyo,JP)
- 08:00** **The impact of maternal hypothyroidism on the prevalence of preeclampsia in a contemporary nationwide cohort.**
- 08:00** **Increased prevalence of premature coronary atherosclerosis after preeclampsia**
M Hauge (Gentofte,DK)
- 08:00** **Echocardiography and biomarker-based regression models for the detection of preeclampsia in pregnant women**
- 08:00** **Clinical benefit of direct oral anticoagulants vs. vitamin-K antagonist in octogenarians with atrial fibrillation**
A Cordero (Alicante,ES)
- 08:00** **Apremilast improves endothelial glycocalyx and microvascular perfusion: a possible protective mechanism against COVID-19**
- 08:00** **Bisphosphonates and atrial fibrillation risk: a final word**
J Sousa (Coimbra,PT)
- 08:00** **Atrial fibrillation in patients with a history of cancer and risk of bleeding complications associated with antithrombotic therapy**
- 08:00** **Impact of prior history of cancer in the outcomes of patients with atrial fibrillation**
M Cespon Fernandez (Pontevedra,ES)
- 08:00** **invasive management in elderly patients with non-st elevation myocardial infarction is beneficial regardless of frailty status**
B Fishman (- ,IL)
- 08:00** **Long term prognostic utility of exercise capacity in renal transplant candidates**
S Tan (Melbourne,AU)
- 08:00** **Distribution of cardiovascular risk in type 2 diabetes: results of an analysis using data from the CAPTURE study**
HB Oestergaard (Amsterdam,NL)
- 08:00** **Pharmacogenetics of therapy effectiveness for anthracycline-induced cardiotoxicity**

- 08:00 Acute kidney injury in patients undergoing transcatheter aortic valve replacement: insights on clinical outcomes and prognostic factors.**
- 08:00 Increasing prevalence of diabetic peripheral angiopathy and complications in hospitalized patients in the United States**
D Jiang (Chicago,US)
- 08:00 Cardiovascular events among recipients of hematopoietic stem Cell transplantation**
N Aghel (Toronot,CA)
- 08:00 Gender differences in health-related quality of life among coronary patients and the relation with comorbidity burden. Results from the ESC EORP EUROASPIRE V survey**
P Vynckier (Ghent,BE)
- 08:00 Prevention of contrast-induced nephropathy with urine alkalinization: the TEATE study**
M Lombardi (Chieti,IT)
- 08:00 Prevalence and predictors of right ventricular dysfunction in cancer patients treated with cardiotoxic chemotherapy - A prospective cardiovascular magnetic resonance study**
D Labib (Giza,EG)
- 08:00 New onset atrial fibrillation and heart failure among patients with multiple myeloma: analysis from a nationwide french medical information database**
- 08:00 Low-dose rivaroxaban associated with lower incidence of all-cause mortality and bleeding complications in older patients with non-valvular atrial fibrillation**
WR Chiou (Taitung,TW)
- 08:00 The role of angiotensin signalling in anthracycline-induced cardiotoxicity**
S Findlay (Newcastle-Upon-Tyne,GB)
- 08:00 Long-term prognosis after ST-elevation myocardial infarction in cancer patients**
JC Heemelaar (Amsterdam,NL)
- 08:00 Is early percutaneous coronary intervention safe in patients ACS and cancer?**
M Scarpone (Cellino Attanasio,IT)
- 08:00 Contemporary in-hospital and long-term prognosis of patients with acute ST-elevation myocardial infarction and chronic kidney disease in Germany**
C Engelbertz (- ,DE)
- 08:00 Trends in hospitalized patients with cancer and stress cardiomyopathy**
A Javaid (Las Vegas,US)
- 08:00 Impact of malignancy on outcomes in European patients with atrial fibrillation: a report from the ESC-EHRA EURObservational Research Programme in Atrial Fibrillation General Long-Term Registry**
- 08:00 Long-term efficacy and safety of inotersen in patients with hereditary transthyretin amyloid polyneuropathy with or without cardiomyopathy: post hoc analysis of NEURO-TTR open-label extension**
C Whelan (London,GB)

- 08:00** **Coronary microcirculatory dysfunction in ischaemic heart disease is associated with structural brain changes and impaired cognitive function: results of the Coronary Cerebral Connection C3 study**
J Escaned (Madrid,ES)
- 08:00** **The SGLT-2 inhibitor dapagliflozin enhanced the anticancer activities and exerts cardioprotective effects during exposure to ipilimumab through NLRP3 inflammasome and pro-fibrotic cytokines**
N Maurea (Naples,IT)
- 08:00** **Previous psychiatric disorders and antipsychotic drugs in COVID-19 patients: early findings on possible worse outcome.**
M Scarpone (Cellino Attanasio,IT)
- 08:00** **Does transition through menopause affect cardiovascular disease risk factors? results from a population-based cohort (CoLaus Study)**
P Raguindin (Bern,CH)
- 08:00** **Cardiovascular effects of autologous bone marrow derived mesenchymal stromal cell therapy with early tacrolimus withdrawal in renal transplant recipients: an analysis of the randomized TRITON study**
MC Meucci (Napoli,IT)
- 08:00** **Breast cancer radiotherapy and risk of pacemaker implantation: an epidemiologic analysis using the French nationwide claims database**
M Errahmani (- ,FR)
- 08:00** **Bradycardia associated with ALK inhibitors in the treatment of non-small cell lung cancers: a systematic review and meta-analysis**
S Zhou (- ,CA)
- 08:00** **Mediators of the effect of ertugliflozin on a composite kidney outcome in patients with type 2 diabetes and atherosclerotic cardiovascular disease: analyses from VERTIS CV**
D Cherney (Toronto,CA)
- 08:00** **Evolocumab, a PCSK9 inhibitor, co-incubated with doxorubicin and trastuzumab reduces death of cardiomyocytes through reduction of MyD88-NLRP3-NF- κ B-mTORC1**
N Maurea (Naples,IT)
- 08:00** **Impact of active and stable cancer on survival in patients undergoing percutaneous coronary intervention**
MG Kang (Jinju,KR)
- 08:00** **Ventricular arrhythmias in patients with immune checkpoint inhibitor myocarditis**
M Hassan (Cambridge,GB)
- 08:00** **Premature cardiovascular aging in sleep apnea with obesity patients**
- 08:00** **In-hospital outcomes in nonagenarian patients undergoing primary percutaneous coronary intervention**
F Angelini (Torino,IT)
- 08:00** **Long-term outcomes of intravenous drug use associated infective endocarditis: a contemporary 20-year study**
I Khan (Melbourne,AU)
- 08:00** **Prevalence of bicuspid aortic valve in patients with aneurysmal sub-arachnoid hemorrhage: Neurologic features and outcomes**

- 08:00 Does coronary calcium score add value to european SCORE in an asymptomatic population?**
- 08:00 The impact of subjective vs objective frailty on the effectiveness and safety outcomes in patients from ETNA-AF-Europe registry**
I Diemberger (Bologna,IT)
- 08:00 Risk stratification and survival in patients after liver transplantation: the role of right heart function and dimension**
- 08:00 Clinical outcomes of pacemaker implantations before and after cancer diagnosis**
M Riesenhuber (Wien,AT)
- 08:00 Plasma concentration of proneurotensin and prediction of cause-specific mortality in a middle aged cohort during long-term follow-up**
A Fawad (Hoejtaastrup,DK)
- 08:00 Improved glycaemic control and reduced incidence of myocardial infarctions, strokes, and mortality in men with hypogonadism and type 2 diabetes, with and without long-term testosterone therapy**
F Saad (Hamburg,DE)
- 08:00 Barthel Index score predicts mortality in elderly heart failure: a goal of comprehensive cardiac rehabilitation**
S Katano (Sapporo,JP)
- 08:00 Hadrontherapy for intra- or para-cardiac tumors: evaluation of cardiac radiation dose distribution and acute cardiac effects**
V Dusi (Milano,IT)
- 08:00 Outcomes of fertility treatment in patients with cardiac disease: A multi-centre experience**
E Joy (Leeds,GB)
- 08:00 Low rate of worsening renal function after 2 years of treatment with edoxaban in patients from the ETNA-AF-Europe study**
M Gwechenberger (Wien,AT)
- 08:00 Sex-based differences in clinical outcomes and resource utilization of type 2 myocardial infarction**
- 08:00 Pregnancy in women with bicuspid aortic valve**
S Belkadi (Stains,FR)
- 08:00 Oxidized Low-Density Lipoproteins increases nivolumab-induced cardiotoxicity through TLR4/NF-KB and NLRP3 pathways**
N Maurea (Naples,IT)
- 08:00 Oral anticoagulation therapy with rivaroxaban in elderly patients with atrial fibrillation. Results from EMIR study.**
M Esteve Pastor (Elche - Alicante,ES)
- 08:00 Insights on clinical outcomes in according to age in patients undergoing Transcatheter Aortic Valve Replacement**

- 08:00** **Impact of frailty on elderly patients with infective endocarditis**
CN Perez Garcia (Madrid,ES)
- 08:00** **SLCO1B1 and ABCB1 genetic variations - possible players in management of dyslipidemia: CoLaus(PsyCoLaus) study**
V Chekanova (Lausanne,CH)
- 08:00** **Directly quantified abdominal subcutaneous adipose tissue volume is negatively associated with subclinical coronary artery disease in men with psoriasis**
M Teklu (- ,US)
- 08:00** **Sex differences in pre-hospital analgesia and outcomes in patients presenting with acute coronary syndromes**
E Nan Tie (- ,AU)
- 08:00** **Sex-specific differences in management and treatment in ST-elevation myocardial infarction - a German nationwide real-life analysis**
L Kuehnemund (Muenster,DE)
- 08:00** **Impact of cardiovascular disease and diabetes on cerebral cognition in older adults: The role of routine echocardiography in a primary care setting of Northern Sweden**
SK Saha (Sundsvall,SE)
- 08:00** **In-hospital bleeding in elderly patients with acute coronary syndrome: are potent antiplatelet agents safe?**
K Keskin (Sisli Istanbul,TR)
- 08:00** **Aortic hemodynamic parameters as predictors of incident or deteriorating hypertension during carfilzomib therapy in patients with relapsed multiple myeloma**
D Delialis (Athens,GR)
- 08:00** **Impact of cardiovascular risk factors in vascular remodelling of pregnant women**
- 08:00** **CHLD score, a new score based on traditional risk factor evaluation and long-term cardiovascular outcomes in patients with systemic sclerosis**
M Wybraniec (Katowice,PL)
- 08:00** **Clinical phenotypes of cardiac sarcoidosis by latent class analysis**
Q Dai (Worcester,US)
- 08:00** **Pacemaker therapy in the elderly and very elderly: comorbidity-burden vs age, as prognostic factors for excess of length of in-hospital stay, complications and mortality**
A Marschall (Madrid,ES)
- 08:00** **Simplified echocardiographic screening criteria for rheumatic heart disease**
S Kotit (Aswan,EG)
- 08:00** **Risk of infective endocarditis in patients with Staphylococcus aureus blood stream infection and declining kidney function**
KP Kaur (Greve,DK)
- 08:00** **Quantitative assessment of myocardial native T1 in duchenne muscular dystrophy using 3.0T cardiovascular magnetic resonance**
- 08:00** **Biochemical and cardiovascular predictors of PIMS risk in children after COVID-19 recovery - the results of the LATE COVID Kids study.**

- 08:00 Preoperative evaluation of pulmonary hypertension in lung transplant candidates: echocardiography versus right heart catheterization**
K Skalsky (Mazkeret Batia,IL)
- 08:00 Sex differences in mortality in stable patients undergoing vasodilator stress cardiovascular magnetic resonance**
V Marcos Garces (Valencia,ES)
- 08:00 Pregnancy outcomes in women with severe congenital heart disease - a specialized centre experience**
V Ferreira (Lisboa,PT)
- 08:00 Validation of the CARPREG II risk stratification model and the WHOM scale in pregnant women with heart disease**
D Botero (- ,CO)
- 08:00 Effectiveness of implanted cardiac rhythm recorders with electrocardiographic monitoring for detecting arrhythmias in peripartum cardiomyopathy (PPCM)**
J Hoevelmann (- ,DE)
- 08:00 Management and outcome of non-ST-elevation acute coronary syndromes in the elderly admitted to spoke hospitals with no cath-lab facility**
F Mantovani (Reggio Emilia,IT)
- 08:00 Impact of female sex in transcatheter aortic valve replacement. Long-term outcomes.**
- 08:00 Cardio-COVID Clinic - a One-Center Experience**
A Shechter (Ramat Gan,IL)
- 08:00 Usefulness of a new risk score in identifying patients with CML at increased risk of cardiovascular toxicities**
- 08:00 Myocardial infarction after prostate cancer diagnosis in Norway: a population-wide registry-based study**
R Forster (Bergen,NO)
- 08:00 Prevalence and clinical predictors of inappropriate direct oral anticoagulant dosage in octogenarians with atrial fibrillation**
A Carbone (Aversa,IT)
- 08:00 Cardiovascular outcomes in hospitalized patients with COVID-19 and history of cancer: a CORONA-VTE analysis**
C Khairani (- ,US)
- 08:00 Spontaneous Coronary Artery Dissection (SCAD) and a family history of aortic artery dissection, a case series**
- 08:00 Outcome of 5-years active cardiological management of oncohematological patients on targeted therapy.**
- 08:00 Ipilimumab and Nivolumab exerts cardiotoxic and pro-fibrotic effects in mice through the overexpression of NLRP3 inflammasome, chemokines and leukotrienes**
N Maurea (Naples,IT)

- 08:00 Pregnancy in women with heart disease- maternal and foetal outcome: a single centre prospective observational registry**
- 08:00 Left ventricular diastolic function in patients with breast cancer treated with anthracycline-based chemotherapy**
- 08:00 Prediction of radiation-related cardiotoxicity using F-18 FDG PET in non-small-cell lung cancer**
SG Cho (Gwangju,KR)
- 08:00 Target organ damage in relation to intensity of cigarette smoking, statin therapy and the endogenous testosterone in middle aged hypertensive men with erectile dysfunction**
- 08:00 The role of arterial hypertension and smoking in the development of endothelial dysfunction in pregnant women**
A Rublevskaya (- ,RU)
- 08:00 Incident cardiovascular events among middle-age men are associated with increased risk of subsequent prostate cancer diagnosis**
A Fardman (Ramat Gan,IL)
- 08:00 Mild cognitive impairment in middle-aged adults with coronary microvascular dysfunction**
B Safdar (New Haven,US)
- 08:00 Cognitive dysfunction and adverse events during oral anticoagulant : a prospective cohort study**
P Massoure (Marseille,FR)
- 08:00 Sex disparities in lipid-lowering therapy and dyslipidemia control in a coronary rehabilitation program**
T Proenca (Castelo Branco,PT)
- 08:00 Emergent coronary angiography in a 90-plus population - outcomes at 5-years follow-up**
R Alves Pinto (Porto,PT)
- 08:00 3D global longitudinal strain is the best predictor of late cardiotoxicity in non-Hodgkin's lymphoma**
- 08:00 Arterial hypertension in pregnant women: the effect of body mass index and smoking**
- 08:00 Fetal and maternal outcomes in patients with tetralogy of fallot**
T Mano (Ajuda, Lisboa,PT)
- 08:00 Underweight and normal weight central obesity among filipinos and its association with cardiovascular risks and diseases**
B Toledano (Quezon,PH)
- 08:00 Inflammatory risk factors are not associated with coronary artery calcification in patients with myeloproliferative philadelphia-negative neoplasms**
CN Solli (Kobenhavn S,DK)
- 08:00 Characteristics of warfarin underprescription in older adults with atrial fibrillation**

S Rashid (Kearny,US)

- 08:00 Association between baseline ldl-c and prognosis among patients with coronary artery disease and advanced kidney disease**
- 08:00 Rheumatic heart disease: a school-based experience in guinea bissau.**
V Beltrani (Genova,IT)
- 08:00 Effect of body mass index on cardiac injury/cardiovascular outcomes in coronavirus disease 2019: a systematic review and meta-analysis**
M Ashraf (Rock Island,US)
- 08:00 The predictive role of neutrophil-to-lymphocyte ratio in post-operative arrhythmias in pediatric patients after cardiopulmonary bypass surgery**
V Bucciarelli (Chieti,IT)
- 08:00 Association of body mass index with non-achievement of target low-density lipoprotein level in older patients at very high cardiovascular risk: a multicentre study**
H NGUYEN (Ho Chi Minh,VN)
- 08:00 Right ventricle strain changes in patients with breast cancer during anthracycline therapy**
M Laufer-Perl (Tel Aviv,IL)
- 08:00 Comorbidities vs age for the prediction of excess of length of in-hospital stay in patients undergoing new pacemaker implantation**
A Marschall (Madrid,ES)
- 08:00 Geriatric syndromes in elderly patients with myocardial infarction.**
- 08:00 Cardiac phenotypes in the acute-phase of microscopic polyangiitis involves dilatation of the left atrium caused by LV diastolic dysfunction**
N Kinoshita (- ,JP)
- 08:00 Factors of atherosclerosis progression in rheumatoid arthritis, prospective study data**
O Fomicheva (Moscow,RU)
- 08:00 Distribution and prevalence of cardiovascular risk factors in a aging population of thalassemia patients: looking at the heart of the problem.**
M Ajassa (- ,IT)
- 08:00 Post-COVID-19 syndrome: prospective evaluation of clinical and functional outcomes**
MC De Ybarra Falcon (Valladolid,ES)
- 08:00 Pregnancy in women with hypertrophic cardiomyopathy: observational data from the tertiary referral center registry**
- 08:00 Arterial stiffness improves with effective chemotherapy in patients with lymphoma**
- 08:00 Abnormal left ventricular geometry in female collegiate swimmers**
Y K Taha (Gainesville,US)
- 08:00 Outcome in elderly patients with myocardial infarction undergoing PCI using**

radial versus femoral access

V Kanic (Maribor,SI)

- 08:00 Percutaneous transluminal angioplasty associated with a comparable risk of mortality in old patients with severe lower extremities arterial disease**
CW Liu (Taipei,TW)
- 08:00 Impact of chronic kidney disease in chronic total occlusion management and clinical outcomes**
E Flores Umanzor (Barcelona,ES)
- 08:00 Cardiovascular outcomes in women with the highest classification of maternal cardiovascular risk in pregnancy**
H Nashat (London,GB)
- 08:00 Cardiac remodelling and reverse remodelling in pregnant women: what can be expected?**
- 08:00 Bleeding risk and selective serotonin reuptake inhibitors treatment after percutaneous coronary intervention: a propensity-matched study**
R Gonzalez-Manzanares (Cordoba,ES)
- 08:00 HIV-infected patients display increased proatherogenic anti-apolipoprotein A1 autoantibodies, inflammatory and metabolomic markers**
- 08:00 Predicting atrial fibrillation after acute abdominal surgery**
C Madsen (- ,DK)
- 08:00 Influence of depressive disorders on quality of life and three-year survival of patients with coronary heart disease**
TG Nonka (Tomsk,RU)
- 08:00 New Onset of AV- Nodal Reentrant Tachycardia (AVNRT) in the elderly- an uncommon diagnosis?**
A Grosse (Weimar,DE)
- 08:00 Indications for prescription and deprescription in multimorbid independently living elderly outpatients**
N Izmozherova (Tyumen,RU)
- 08:00 Relationship between endothelium-dependent vasodilation, carotid intima-media thickness and atherosclerotic plaques: is it preserved in the elderly?**
S Malyutina (Novosibirsk,RU)
- 08:00 Polypharmacy in older adults after transcatheter or surgical aortic valve replacement**
J Rodighiero (- ,CA)
- 08:00 A modification of cAMP compartmentation is involved in the doxorubicin-induced cardiotoxicity**
- 08:00 First results of digital register of underage athletes with cardiovascular abnormalities**
- 08:00 Impact of albumin on the incidence of adverse events following percutaneous coronary interventions in older adults**
D Marti Sanchez (Madrid,ES)

- 08:00 Frailty syndrome as an independent predictor of unfavorable outcome in patients undergoing coronary artery bypass grafting**
KEK Krivoschapova (Kemerovo,RU)
- 08:00 Effect of long-term testosterone replacement therapy on arterial stiffness and systemic endothelial function in male patients with hypogonadism**
- 08:00 COVID-19 infection impact on cardiovascular and thrombotic events during acute phase and medium-term of the disease.**
- 08:00 Effect of treatment on the hemodynamics system in Systemic Lupus Erythematosus patients**
D Blachut (Zabrze,PL)
- 08:00 Women with atrial fibrillation in the Middle East: utilization of oral anticoagulant agents in a population with bad baseline clinical profiles and risk scores**
S Rawashdeh (Irbid,JO)
- 08:00 Incidence of maternal and fetal complications in pregnant with mechanical prosthetic cardiac valves: a cohort study**
G Youssef (Cairo,EG)
- 08:00 A 3D-TTE left atrial function study in cardio-oncology patients**
V Ferreira (Lisboa,PT)
- 08:00 Atrial fibrillation and geriatric syndromes: an association beyond traditional risk factors.**
- 08:00 The impact of glomerular filtration rate estimation on cardiovascular events in elderly patients undergoing coronary angiography**
A Aker (- ,IL)
- 08:00 Comorbidity and sarcopenia: mortality and survival**
AS Erokhina (Smolensk,RU)
- 08:00 Prognosis of adverse outcomes in patients with st-elevation myocardial infarction and acute ischemic kidney injury**
- 08:00 The impact of chronic alcohol overuse on right ventricular myocardial strain.**
P Hamala (Lodz,PL)
- 08:00 Levels of hypersensitive troponin t in the emergency department as a predictive factor of mortality for hospitalized COVID-19 patients.**
- 08:00 Sex-differences in outcomes after percutaneous coronary intervention of chronic total occlusions: insights from a large single-center registry**
S Kumar (Honolulu,US)
- 08:00 Cardiovascular risk associated with long-term anabolic-androgenic steroid abuse: an observational study from Norway**
T Steien Saetereng (Oslo,NO)
- 08:00 Androgen deprivation therapy with agonists of GnRH: cardiovascular adverse events and comorbidity considerations in patients with prostate cancer**

- 08:00 Clinical profiles of atrial fibrillation patients with or without malignancy: Analysis from the Jordan Atrial Fibrillation study**
Z Abdulelah (Amman,JO)
- 08:00 Sensitivity and specificity of strain rate for the early detection of left ventricular dysfunction in breast cancer patients receiving adjuvant treatment with adriamycin with or without trastuzumab**
ME Tettamanti (Buenos Aires,AR)
- 08:00 Long-term mortality in women with myocardial infarction who underwent PCI using radial versus femoral access.**
V Kanic (Maribor,SI)
- 08:00 Outcome of subsequent pregnancy after peripartum cardiomyopathy from a low middle income country- a prospective single center study.**
S Anne Princy (Chennai,IN)
- 08:00 Effect of the number of parity on right heart chamber quantification**
- 08:00 Clinical characterization of cardio-oncology assessment and screening in oncologic patients receiving high toxicity chemotherapy evaluated in a tertiary care center: a retrospective cohort study.**
A Miranda (Medellin,CO)
- 08:00 Prognostic value of myocardial injury and chronic kidney disease in an emergency unit**
- 08:00 Social determinants and mortality from cardiovascular disease in brazil**
- 08:00 Thrombotic and hemorrhagic complications during pregnancy, delivery and the postpartum period in females with prosthetic heart valves.**
J Sefieva (Sank-Petersburg,RU)
- 08:00 HER2 positive breast cancer: is there a preventive role of cardioprotective drugs?**
- 08:00 Exploring biomarkers of age in routine diagnostics for the risk stratification of older patients in the emergency department.**
P Bahrmann MHBA (Nuremberg,DE)
- 08:00 The Predictive role of speckle-tracking and left ventricular ejection fraction estimation using 2D and 3D echocardiography in the detection of chemotherapy related cardiotoxicity**
CC Oliveira (Riberao,PT)
- 08:00 Cognitive dysfunction among patients referred for transcatheter aortic valve implantation: results of the Montreal Cognitive Assessment and clinical impact at 6 months.**
C Monnin (Belfort,FR)
- 08:00 Frailty is associated with impaired cerebral oxygenation recovery during**
L Perez-Denia (Dublin,IE)
- 08:00 Covid-19 pandemic triggers acute myocardial infarction, stroke, and out-of-hospital cardiac arrest in non-infected individuals: the final results of the JoCORE study**
- 08:00 Resilience of the hellenic navy SEALs assessed by heart rate variability during**

- 08:00 **Endocannabinoids and heart rate variability alterations after exposure to prolonged intensive physical exercise of the Hellenic Navy SEALs**
- 08:00 **Association of soluble ST2 and right ventricular dysfunction with mortality in chronic hemodialysis patients**
G Romero-Gonzalez (Pamplona,ES)
- 08:00 **Acute kidney injury related to acute pulmonary thromboembolism is associated with increased incidence of in-hospital mortality**
- 08:00 **Clinical picture and laboratory disorders in adult patients with pre-existing cardiomyopathy and COVID infection**
- 08:00 **The new myokine myonectin is significantly associated with type 2 diabetes in elderly patients**
- 08:00 **A population-based study for difference in contribution of type 2 diabetes mellitus to cardiovascular outcomes in adult cancer survivors and general population without history of cancer**
K Kim (Goyang,KR)
- 08:00 **Changes in cardiometabolic risk factors during inpatient rehabilitation of traumatic spinal cord injury from a multicenter Swiss Spinal Cord Injury Cohort (SwiSCI)**
P Raguindin (Bern,CH)
- 08:00 **Early increase of high-sensitivity cardiac troponin predicts mortality in cancer patients undergoing chemotherapy**
- 08:00 **Outcomes of pregnancy in women with congenital heart disease in a development country**
- 08:00 **Predictors of cardiovascular events in patients with primary systemic vasculitis: a 5 years prospective observational study.**
A Borowiec (Warsaw,PL)
- 08:00 **Nonspecific connective tissue dysplasia in young patients: the role of autonomic dysfunction.**
E Loginova (Omsk,RU)
- 08:00 **Risks of trastuzumab-related cardiotoxicity in breast cancer patients in Taiwan**
W Chang (Tainan,TW)
- 08:00 **Dose-dependent dynamics of glomerular filtration rate in patients with reduced renal function in the postinfarction period**
L Salyamova (Penza,RU)
- 08:00 **The female gender as a risk factor of contrast-induced acute kidney injury in patients with chronic coronary syndromes**
O Mironova (Moscow,RU)
- 08:00 **Heart rate variability as a predictor factor of the development of preeclampsia: systematic review of the literature**

- 08:00 ST-segment elevation myocardial infarction: are women being discriminated?**
CC Oliveira (Riberao,PT)
- 08:00 Irreversible cardiac remodeling promotes cancer progression via secreted factors in ATF3 transgenic mouse model**
L Awwad (Haifa,IL)
- 08:00 Serial measurement of global longitudinal strain among women with breast cancer treated with proton radiation therapy**
M Hassan (Cambridge,GB)
- 08:00 Laboratory indicators of inflammation and systolic function of the left and right ventricles in patients with cardiovascular disease who have undergone COVID-19 - associated pneumonia**
N Musikhina (Tyumen,RU)
- 08:00 Conservative management of acute coronary syndromes in chronic kidney disease patients: a deadly sin**
- 08:00 Impact of cardio-oncology strategies in the management of breast cancer patients**
R Karmous (Menzel Jemil,TN)
- 08:00 Khorana score at an initial chemotherapy is effective on predicting death in patients with gastrointestinal cancer**
K Shibata (Kagoshima,JP)
- 08:00 Depressive disorders and quality of life in patients with acute coronary syndrome in real clinical practice**
E Koroleva (Moscow,RU)
- 08:00 Metabolic syndrome in kidney transplant recipients with adverse cardiovascular events**
- 08:00 Abdominal hemodynamics in patients with visceroptosis**
E Semenova (Omsk,RU)
- 08:00 The impact of anxiety level on medical decisions of non-covid patients during the pandemic outbreak**
O Koren (Kfar Tavor,IL)
- 08:00 Echocardiography and ECG monitoring not very beneficial in COVID-19 follow-up even in long haulers**
M Radvan (Brno,CZ)
- 08:00 Prehospital period in patients with COVID-19 and community acquired pneumonia: age characteristics, cardiovascular comorbidity and pharmacotherapy during epidemic wave (the data of hospital registry)**
M Lukyanov (Moscow,RU)
- 08:00 Prevalence of cardiovascular risk in HIV positive patients**
- 08:00 Predictive association of pulmonary hypertension with risks of adverse renal outcomes in type 2 diabetes**

Learning Objectives:

Categories:

Congress committee e-posters choice in e-cardiology and digital health

Session Number: 405

Chairpersons: N Bruining (Rotterdam, NL) - J Lumens (Maastricht, NL)

- 08:00 The role of process mining tools in STEMI networks: where should we build a new primary PCI centre?**
J Borges-Rosa (Coimbra,PT)
- 08:00 Performance of a multisensory implantable cardioverter-defibrillator algorithm for remote heart failure management: the RE-HEART registry**
J De Juan Baguda (Madrid,ES)
- 08:00 Telerobotic interventions from a distance: an initial experience in 3D phantom mapping**
S Ailoei (Iasi,RO)
- 08:00 A comparison of over-the-counter available smartwatches and devices for electrocardiogram based detection of atrial fibrillation**
J Scholten (Zaandam,NL)
- 08:00 Investigating performance of deep learning and machine learning risk stratification of Asian in-hospital patients after ST-elevation myocardial infarction.**
- 08:00 Inter operator variability of machine learning researchers predicting all-cause mortality in patients admitted to intensive care unit**
Y Jones (Glasgow,GB)
- 08:00 Adaptive design with bayesian informed interim decisions: application to a randomized trial of mechanical circulatory support.**
N Muehleemann (Blonay,CH)
- 08:00 Hybrid telerehabilitation in patients with hypertrophic cardiomyopathy without left ventricular outflow tract obstruction and preserved left ventricular ejection fraction-the randomised clinical trial**
K Sadowski (Warszaw,PL)
- 08:00 Quantifying preload alterations using a sensitive chest-mounted accelerometer**
- 08:00 Assessment of left ventricular mechanics in right ventricular overload using in silico rat models**
H Martinez-Navarro (Bunyol,ES)
- 08:00 The feasibility of algorithm-based ECG interpretation in remote monitoring - 53,748 recordings from the Dutch HartWacht program**
- 08:00 On-device artificial intelligence: mobile solution for detecting severe aortic valve stenosis based on heart sounds**
H Makimoto (Duesseldorf,DE)

Learning Objectives:

Categories:

Advances in science on big data

Session Number: 406

Chairpersons: A Banerjee (London, GB) - D Kotecha (Birmingham, GB)

10:30 State-of-the-art on big data
FW Asselbergs (Utrecht,NL)

10:45 Epidemiology of transthyretin amyloid cardiomyopathy (ATTR-CM) in France, a study based on the systeme national des donnees de sante (SNDS) the French nationwide claims database

11:00 Case-ascertainment of acute myocardial infarction hospitalisations across two national data sources for an English cardio-oncology cohort

Learning Objectives:

Categories: Abstract-Based Programme

COVID and digital health

Session Number: 407

Chairpersons: K Sliwa-Hahnle (Cape Town, ZA) - S Babu-Narayan (London, GB)

- 20:15** **Validation of a pandemic-proof, decentralized cardiovascular trial: scalable design produces rapid recruitment, high engagement and protocol adherence in DeTAP (Decentralized Trial in Afib Patients)**
R Dash (Stanford,US)
- 20:24** **Triage-HF plus: 12-month study of remote monitoring pathway for triage of heart failure risk initiated during the covid-19 pandemic**
P Bachtiger (Worthing,GB)
- 20:33** **Impact of the COVID-19 pandemic on cardiology services at a tertiary cardiac centre in a low- & middle-income country in Asia**
F Cader (Dhaka,BD)
- 20:42** **Is virtual cardiology training here to stay in the post covid era?**
- 20:51** **Automated processing of thermal imaging to detect COVID-19 and microvascular dysfunction**
RY Brzezinski (Tel Aviv,IL)

Learning Objectives:

Categories: Abstract-Based Programme, COVID-19

Highlights from the Young in digital health

Session Number: 408

Chairpersons: A Bohm (Bratislava, SK) - D Linz (Maastricht, NL)

- 07:15** Trends in infective endocarditis mortality in the United Kingdom and EU 15+ countries between 1990-2019: an analysis of the Global Burden of Diseases database
M Hammond-Haley (London,GB)
- 07:24** Misclassification of sex by deep neural networks reveals novel ECG characteristics that explain a higher risk of mortality in women and in men
- 07:33** Impact of a community-based medication delivery program for antihypertensive medications on adherence and blood pressure reduction
- 07:42** A randomised control trial of TeleClinical Care - a smartphone-app based model of care for heart failure and acute coronary syndromes
- 07:51** The possibility of determining the systolic function of the left ventricle using a single-channel electrocardiogram monitor with photoplethysmography.
Z N Sagirova (Moscow,RU)

Learning Objectives:

Categories: Abstract-Based Programme

e-Cardiology/digital health

Session Number: 409

Chairpersons: T Jaarsma (Norrköping, SE) - L Neubeck (Edinburgh, GB)

- 07:15** **Improving outcomes with integrated care of patients with atrial fibrillation and multimorbidity using mobile health technology: A report from the mAFA II trial**
Y Guo (Beijing,CN)
- 07:24** **Atrial fibrillation self-screening, management and guideline recommended therapy (AF SELF SMART): improving AF screening in general practice by utilising self-screening stations in GP waiting rooms**
- 07:33** **Therapeutic components of an automated digital counselling intervention for chronic heart failure**
G Fezza (Toronto,CA)
- 07:42** **Effects of medical graphic narratives (patient comic) on Patient Reported Outcome Measures (PROMs) in patients undergoing coronary angiography and PCI**
A Brand (Berlin,DE)
- 07:51** **Is natural patient preconsultation data medically relevant for outpatient and primary care in cardiology?**
F Jamal (Lyon,FR)

Learning Objectives:

Categories: Abstract-Based Programme

Public health and health economics

Session Number: 410

Chairpersons: V Kunadian (Newcastle Upon Tyne, GB)

- 20:15** **Cost-minimisation analysis of acute myocardial infarction rule-out in low-risk patients: primary care emergency setting versus hospital setting**
TR Johannessen (Oslo,NO)
- 20:24** **Gender bias in ACS management**
P Murray (Dublin,IE)
- 20:33** **The McGill World Restart a Heart 2020 Campaign: a student-led, patient-engaged, large-scale online simulation program**
- 20:42** **A model of lifetime health outcomes in cardiovascular disease based on clinical trials and large cohorts**
R Wu (London,GB)
- 20:51** **Insights into a regional collaboration for improving heart care across the complete care chain**

Learning Objectives:

Categories: Abstract-Based Programme

Echocardiography ePosters

Session Number: 411

Chairpersons:

- 08:00** **Left atrial volume changes during exercise stress echocardiography in heart failure and hypertrophic cardiomyopathy**
C Prota (Battipaglia,IT)
- 08:00** **The efficacy of three dimensional echocardiography in assessment of aortic atherosclerotic plaques compared to two dimensional echocardiography**
M Behjati (- ,IR)
- 08:00** **Structural-electrical remodeling of myocardium in neurological deficits in patients with ischemic stroke: is there a connection?**
- 08:00** **Global longitudinal strain as a predictor of cardiovascular events and mortality in patients with ischemic heart disease and heart failure with preserved/mid-range ejection fraction**
J Santos (Castelo Branco,PT)
- 08:00** **Myocardial injury in stress echocardiography: comparison of dobutamine, dipyridamole and dynamic stress echocardiography - single centre study**
- 08:00** **Severe aortic stenosis echocardiographic thresholds revisited**
S Schwartzberg (Petach Tikva,IL)
- 08:00** **Effect of sodium-glucose co-transporter 2 inhibitors on left ventricular mass and left atrial volume indices assessed either by cardiovascular magnetic resonance or transthoracic echocardiography**
- 08:00** **Stress echocardiography and outcomes after cardiac surgery in patients with ischemic mitral regurgitation**
A Zagatina (St. Petersburg,RU)
- 08:00** **Value of echocardiography using knowledge-based reconstruction in determining right ventricular volumes in pulmonary sarcoidosis: comparison with cardiac magnetic resonance imaging**
H Mathijssen (Nieuwegein,NL)
- 08:00** **A modified Dabestani-Mahan formula estimates a normal pulmonary artery systolic pressure: a single-center retrospective study**
V Sunder (- ,US)
- 08:00** **Myocardial strain by 3D-speckle tracking echocardiography predicts long-term risk of cardiovascular morbidity and mortality in the general population: the Southall And Brent Revisited (SABRE) study**
L Al Saikhan (London,GB)
- 08:00** **Myocardial Work and long-term prognosis in patients after ST-segment elevation acute myocardial infarction**
A Timoteo (Lisboa,PT)
- 08:00** **Left atrial appendage velocity as an instrument of predicting atrial fibrillation recurrence after successful catheter ablation - a useful tool?**
- 08:00** **The role of low-dose dobutamine stress echocardiography to detect pulmonary arterial hypertension in selected patients with systemic sclerosis whose baseline echocardiography for pulmonary hypertensio**
- 08:00** **Additive prognostic value of exercise echocardiography in symptomatic patients with normal or abnormal left ventricular diastolic function**

- 08:00 Comparison between the British and the American/European guidelines for the assessment of left ventricular diastolic function with invasive validation of left ventricular filling pressure**
A Barakat (Damascus,SY)
- 08:00 Left atrial appendage function by strain predicts subclinical atrial fibrillation in patients with cryptogenic stroke/TIA**
- 08:00 Left ventricular longitudinal shortening at cardiac base as a determinant of left atrial reservoir function in cardiac amyloidosis**
K Inoue (Toon,JP)
- 08:00 Comparison of coronary flow reserve feasibility and values in different stress echocardiography protocols: dobutamine, dipyridamole, exercise and rapid pacing**
K Wierzbowska-Drabik (Lodz,PL)
- 08:00 A comprehensive model to estimate underlying atrial fibrillation in cryptogenic stroke: the decrypting score**
A Cecconi (Madrid,ES)
- 08:00 Sex differences in left ventricular remodeling in patients with severe aortic valve stenosis**
JH Kuneman (Leiden,NL)
- 08:00 Cardio-pulmonary transit-time by cardiac magnetic resonance imaging: associates to infarct severity and adverse events after reperfused STEMI**
F Troger (Innsbruck,AT)
- 08:00 Correlation of intraprocedural and follow up parameters for mitral regurgitation grading after percutaneous edge-to-edge repair**
A Salinas (Temuco,CL)
- 08:00 Left atrial remodeling after mitral valve repair for primary mitral regurgitation: evolution over time and prognostic significance.**
J Stassen (Hasselt,BE)
- 08:00 Exploration of electrocardiographic and echocardiographic findings to screen transthyretin amyloid cardiomyopathy in patients with mild left ventricular hypertrophy**
M Saito (Ozu,JP)
- 08:00 B-lines by lung ultrasound is associated with pulmonary symptoms and cardiac function in acute malaria: a prospective cohort study**
A Wegener (- ,DK)
- 08:00 Cut-off value of coronary flow velocity reserve obtained by transthoracic Doppler echocardiography during intravenous infusion of dobutamine for diagnosis of functional significant myocardial bridging**
S Aleksandric (Belgrade,RS)
- 08:00 Consequences on the right ventricular to pulmonary circulation coupling of COVID-19 infection**
AM Vella (Milano,IT)
- 08:00 Incremental prognostic and diagnostic value of exercise echocardiography in patients with indeterminate or abnormal diastolic function**
JC Peteiro Vazquez (A Coruna,ES)

- 08:00 Echocardiographic markers of mortality at 60 days in patients with COVID-19 in the intensive care unit**
J Sprockel (Bogota,CO)
- 08:00 Left ventricular diastolic dysfunction in non-severe chronic obstructive pulmonary disease as a step forward in cardiovascular comorbidity**
Z Cherneva (Sofia,BG)
- 08:00 Resistin, right cardiac remodeling and stress induced right ventricular diastolic dysfunction**
- 08:00 Quantitative echocardiographic analysis of the right atrial size reflects the severity of histopathological confirmed fibrosis in patients undergoing cardiac surgery**
- 08:00 Incidence and predictors of left atrial appendage thrombus on transoesophageal echocardiography before elective cardioversion**
F Wegner (Muenster,DE)
- 08:00 Left atrial deformation parameters among beta-thalassemia major patients**
D Patsourakos (Athens,GR)
- 08:00 Loss of apical suction assessed by noninvasive pressure differences and twist in acute heart failure: a novel method using vector flow mapping**
- 08:00 Fully automated global longitudinal strain assessment using artificial intelligence developed and validated by a UK-wide echocardiography expert collaborative**
M Shun-shin (London,GB)
- 08:00 Ratio between right ventricle longitudinal strain and pulmonary arterial systolic pressure: a new prognostic parameter in patients undergoing cardiac resynchronization therapy**
- 08:00 Prognostic value of right ventricular systolic function by speckle tracking echocardiography beyond conventional echocardiography in significant tricuspid regurgitation**
R Hinojar Baydes (Madrid,ES)
- 08:00 Semi-automated left ventricular endocardial detection versus hand-tracing in the measurement of left ventricular volumes and ejection fraction in daily clinical practice**
LS Chen (Ayer Itam Penang,MY)
- 08:00 Discongruence Index: predictor of prosthesis size loss after transcatheter aortic valve replacement**
JA De Agustin Loeches (Madrid,ES)
- 08:00 Analysis of right ventricle echocardiographic function parameters for the prediction of outcomes in significant functional tricuspid regurgitation.**
- 08:00 Clinical and echocardiographic risk score predicts need for hospitalization among patients with COVID-19.**
J Kothari (Bethlehem,US)
- 08:00 Risk factors for left ventricular thrombus formation on transthoracic echocardiography in a propensity-matched case control study**

- 08:00 Cardiac function in fetal and infants born to mothers with gestational diabetes**
- 08:00 Low birth weight predicts impaired cardiac structure and function in mid-adulthood**
Q Huynh (Melbourne,AU)
- 08:00 A 20 year single community based tertiary care center experience with atrial myxomas**
- 08:00 The association of tissue doppler E/e' ratio with poor survival is modified by gender and is attenuated with advanced age**
Y Wasserstrum (Petach-Tikva,IL)
- 08:00 Left atrial volumes changes are associated with changes in mitral annular dimensions and functional properties in healthy adults - a three-dimensional speckle-tracking echocardiographic study**
A Nemes (Szeged,HU)
- 08:00 Mitral and tricuspid annular abnormalities in hypereosinophilic syndrome - a three-dimensional speckle-tracking echocardiographic study**
A Nemes (Szeged,HU)
- 08:00 Detailed analysis of left ventricular deformation in athletes doing high dynamic sports - a three-dimensional speckle-tracking echocardiographic study**
A Nemes (Szeged,HU)
- 08:00 Decreased left atrial function in morbid obese patients without known cardiac disease**
Y Aga (Rotterdam,NL)
- 08:00 Upright exercise stress echocardiography may unmask dynamic left ventricular obstruction also beyond hypertrophic cardiomyopathy**
C Cotrim (Setubal,PT)
- 08:00 The tricuspid annulus in cardiac amyloidosis - a three-dimensional speckle-tracking echocardiographic study**
A Nemes (Szeged,HU)
- 08:00 Tricuspid annular abnormalities in isolated left ventricular noncompaction - a three-dimensional speckle-tracking echocardiographic study**
A Nemes (Szeged,HU)
- 08:00 Left ventricular diastolic function during pregnancy; insights from conventional and speckle tracking echo parameters**
E Tryfou (Athens,GR)
- 08:00 Comparative analysis of phasic left atrial strain and left ventricular posterolateral strain to discriminate Fabry cardiomyopathy from other forms of left ventricular hypertrophy**
- 08:00 The assessment of left ventricular myocardial work in patients with chronic heart failure receiving cardiac contractility modulation therapy**
- 08:00 The stiff male arterial system seems to establish itself well before puberty**
I Mizrak (Taastrup,DK)
- 08:00 Reversed apico-basal myocardial relaxation sequence during exercise in related**

to impaired diastolic function and attenuated stroke volume response in LQTS mutations carriers

- 08:00 Chronology of development of cardiac dysfunction after permanent pacemaker implantation: an observational 2 year study**
H Gupta (Lucknow,IN)
- 08:00 The relative apical sparing pattern is common in elderly patients with type 2 diabetes mellitus**
K Uneno (Munakata-Shi,JP)
- 08:00 Association between cardiac pathology and outcomes of patients with COVID-19 using a hand-held ultrasound**
Z Dadon (Jerusalem,IL)
- 08:00 Clinical impact on treatment and prognosis of advanced cardiac imaging with echocardiography in the acute setting of a covid-19 infection**
M Gonzalez Del Hoyo (Tarragona,ES)
- 08:00 Echocardiographic parameters as predictors of three-months mortality in patients with 2019 Coronavirus infection.**
T Miranda Aquino (Zapopan,MX)
- 08:00 Strain-based staging classification of left bundle branch block-induced cardiac remodeling predicts reverse remodeling after cardiac resynchronization therapy**
S Calle (Gent,BE)
- 08:00 Left ventricular longitudinal strain impairment at rest correlates with reduction of SPECT-derived coronary flow reserve in patients with suspected coronary artery disease.**
KM Cygulska (Lodz,PL)
- 08:00 Prognostic value of heart rate reserve during dipyridamole stress echocardiography in patients with abnormal chronotropic response to exercise**
- 08:00 Ventricular-arterial coupling changes as an early predictor of left ventricular remodelling in atrial fibrillation**
- 08:00 Impact of chronic mitral regurgitation on 3D atrial size and mechanics. Insights from the prospective 3D-PRIME study**
D Cramariuc (Bergen,NO)
- 08:00 Use of passive leg rise as an add-on to dobutamine in patients with paradoxical low-flow, low-gradient aortic stenosis**
- 08:00 Prognostic value of layer-specific global longitudinal strain in patients undergoing coronary artery bypass grafting**
FSD Davidovski (Copenhagen,DK)
- 08:00 Echocardiographic characteristics of cardiac myxoma**
P Koritnik (- ,SI)
- 08:00 assessing the left atrial appendage thrombus using 3d transesophageal echocardiography and pulse wave doppler**
B Djemmal (Chelghoum Laid,DZ)
- 08:00 Role of territorial speckle tracking echocardiography in identifying the localization of significant coronary artery disease in patients with non-ST-segment elevation**

08:00	Normal values for indexed left atrial end-systolic volume by two- and three-dimensional echocardiography. A cross-sectional population study.	
08:00	The relationship between coronary anatomy and primary percutaneous coronary intervention features and prognostically unfavorable CMR-based characteristics of acute ST-elevation myocardial infarction MA Mariya (Moscow,RU)	
08:00	Exercise-induced changes of ventricular function in male and female amateur marathon runners as assessed by three-dimensional echocardiography. Z Lasocka (- ,PL)	
08:00	In vitro estimation of the energy loss through turbulence in a porcine aortic valve stenosis model and silicone ascending aorta phantom using backlight particle tracking velocimetry	
08:00	Impact of Multimodality Imaging on the Diagnosis of Left Ventricular Apical Thrombus in Patients after Anterior MI	
08:00	Effect of Sacubitril/Valsartan on left ventricular longitudinal strain in patients with hematologic malignancies after bone marrow transplantation.	
08:00	Usefulness of 2D/3D-TEE for guiding transapical beating heart neochordae implantation in mitral regurgitation. P Mahia (Madrid,ES)	
08:00	Exercise stress echocardiography with probe fixated on patient's chest K Wdowiak-Okrojek (Lodz,PL)	
08:00	Left atrial strain and left atrial stiffness for early detection of cardiotoxicity in cancer patients	
08:00	Left atrial dynamics and congestion status analysis in acute decompensated heart failure based on LVEF categorization M Barki (Segrate,IT)	
08:00	The impact of cardiovascular risk factors on systolic ejection time over a decade	Withdrawn
08:00	Ejection dynamics in native aortic valve stenosis using echocardiography: can it be helpful? M Bawor (London,GB)	
08:00	Correlation between automatic and manual methods of right ventricle and left atrium strain quantification. P Remior (Madrid,ES)	
08:00	The role of premorbid transthoracic echocardiogram in identifying adverse clinical outcomes in patients admitted with COVID-19 C Lee (Philadelphia,US)	
08:00	Multimodality imaging and systemic biomarkers in classical low-flow low-gradient aortic stenosis: key findings for cardiac remodeling evaluation	

- 08:00 Comprehensive strain analysis in oncological patients undergoing thoracic radiotherapy: 1-year follow-up of a prospective study comparing proton vs. photon beam therapy**
- 08:00 LV-GLS is a predictor of all-cause death and cardiovascular MACE events in patients with neuro-immunological disorders**
S Khanna (Sydney,AU)
- 08:00 Normal ranges of global left ventricular myocardial work indices in adults: a meta-analysis.**
- 08:00 Patients with rare autoimmune inflammatory disorders demonstrate sub-clinical left ventricular dysfunction**
S Khanna (Sydney,AU)
- 08:00 Preponderance of right ventricular dysfunction in COVID-19 patients with inflammatory heart disease**
- 08:00 Left atrial strain evaluation and prognostic value in constrictive pericarditis patients undergoing pericardiectomy**
S Lo Presti (- ,US)
- 08:00 The discongruence index, a simple predictor of cardiac remodeling after transcatheter aortic valve replacement.**
F Islas (Madrid,ES)
- 08:00 Ventricular-arterial coupling in hypertensive patients after TAVR. It is not all about the valve.**
F Islas (Madrid,ES)
- 08:00 Anatomical variants of the cavotricuspid isthmus in patients undergoing catheter ablation for atrial flutter and/or atrial fibrillation**
- 08:00 Assessment of the intramural segment of interarterial anomalous coronary arteries originating from the opposite sinus of Valsalva on CT angiography.**
CJ Koppel (Leiden,NL)
- 08:00 Pocket-size ultrasound devices may improve the prompt assessment of Covid-19 patients**
- 08:00 Speckle tracking assessment of the atrial function in patients with systemic sclerosis**
G Stronati (Agugliano,IT)
- 08:00 Right ventricular reverse remodeling assessed by echocardiography as a new goal-oriented treatment strategy in PAH patients**
C Fauvel (Rouen,FR)
- 08:00 Prognostic value of cardiopulmonary exercise testing in valvular heart disease**
C Cortina Camarero (Madrid,ES)
- 08:00 High frame rate speckle tracking echocardiography to assess diastolic function**
K Papangelopoulou (Athens,GR)

- 08:00 Assessment of mitral valve area by 3D planimetry after percutaneous mitral valve repair**
M Gordillo (La Punta,PE)
- 08:00 Left atrial reservoir strain is reduced in patients with myocardial infarction with non-obstructive coronary arteries.**
M Malaty (Ingleburn,AU)
- 08:00 Prognostic implication of left atrial strain in patients undergoing totally thorascopic ablation of atrial fibrillation**
- 08:00 Can echocardiographic parameters predict mortality in COVID-19?**
N Eden (- ,GB)
- 08:00 Dynamics of myocardial global longitudinal strain in patients with COVID-19 without significant baseline cardiovascular pathology**
- 08:00 Echocardiographic E/e for the prediction of recurrent atrial fibrillation after ablation or electrical cardioversion: a systematic review and meta-analysis**
GGD Gomez (- ,PH)
- 08:00 Cardiac dysfunction 3 months after hospitalization for COVID-19**
- 08:00 Ejection fraction basal strain ratio (EFBSR), a new accurate echocardiographic deformation parameter to screen cardiac amyloidosis among hypertrophic cardiopathies.**
- 08:00 Speckle tracking during stress echocardiography using high frame rate imaging**
M Orłowska (- ,BE)
- 08:00 Utility of left atrial strain imaging for the determination of diastolic dysfunction in patients with STEMI**
K Ohtaroglu Tokdil (Istanbul,TR)
- 08:00 Implication of Current ASE/EACVI Left Ventricular Diastolic Function Classification in Predicting 2-Year MACE in Asymptomatic Patients with Diabetes and Hypertension**
D Foo (Kuching,MY)
- 08:00 Diagnostic performance of conventional right ventricular function echocardiography parameters in acute pulmonary embolism. Comparison with 3D ejection fraction and longitudinal strain**
N Ramos Lopez (Madrid,ES)
- 08:00 Cardiac shear wave elastography can distinguish healthy and scarred myocardium in patients with conduction delays**
L Wouters (- ,BE)
- 08:00 Prognostic value of strain rate during isovolumic relaxation in a general population**
K Papangelopoulou (Athens,GR)
- 08:00 Direct comparison of adenosine- versus exercise echo-derived distal left anterior descending artery velocity reserve.**
I Armenis (Athens,GR)
- 08:00 Evaluation of right ventricular function in acute pulmonary embolism by 3D ejection fraction and longitudinal strain echocardiography in acute phase and**

follow-up

N Ramos Lopez (Madrid,ES)

- 08:00 Clinical outcome after Mitraclip procedure: role of right ventricle**
- 08:00 Normalization of global longitudinal strain after a 30-seconds exercise bout in elite athletes**
- 08:00 The impact of left atrial strain parameters on systolic and diastolic improvement following TAVI**
B Vattay (Budapest,HU)
- 08:00 Assessment of intracardiac flow dynamics for the evaluation of patients with different ventricular geometry**
I Leo (Crotone,IT)
- 08:00 Left bundle branch block causes left atrial dyssynchrony: a result of atrio-ventricular mechanical interaction**
- 08:00 Changes in Left atrial strain in patients with aortic stenosis after TAVI**
I Leo (Crotone,IT)
- 08:00 Three-dimensional echocardiographic rendering tools further improve imaging in mitral valve prolapse and percutaneous edge-to- edge mitral valve repair**
- 08:00 Impact of parity on cardiac structure and function in apparently healthy pregnant women in Nigeria**
- 08:00 Left atrial stiffness index is associated with metabolic syndrome and independently related to urine albumin-creatinine ratio in young subjects with hypertension**
- 08:00 Myocardial deformation techniques as potential tools to detect arrhythmogenic cardiomyopathy in early stages of the disease**
D Segura Rodriguez (Granada,ES)
- 08:00 The impact of marathon running on atrial remodeling in male and female amateur athletes assessed by three-dimensional echocardiography.**
Z Lasocka (- ,PL)
- 08:00 Right ventricular improvement is associated with left ventricular diastolic function and size enhancement in PAH patients: an echocardiographic study**
C Fauvel (Rouen,FR)
- 08:00 Diameter and shunt act as an alleviator of pulmonary hypertension: an echocardiography assessment of patients with ostium secundum atrial septal defect.**
NG Espinola-Zavaleta (Mexico,MX)
- 08:00 Prediction of early left ventricular recovery and adverse remodelling in patients with acute myocardial infarction: the role of non-invasive myocardial work evaluation**

Learning Objectives:

Categories:

Cardiac Computed Tomography ePosters

Session Number: 412

Chairpersons:

- 08:00 Bicuspid aortic valve is associated with less coronary artery calcium and coronary artery disease burden by computed tomography**
F Barbieri (Innsbruck,AT)
- 08:00 Coronary artery calcium and risk prediction in type 2 diabetics**
B Zafrir (Haifa,IL)
- 08:00 Grading mitral regurgitation using 4D flow CMR: comparison to transthoracic echocardiography**
S Ribeyrolles (Paris,FR)
- 08:00 Prognostic value of coronary artery calcium score in hospitalized COVID - 19 patients**
A Motoc (Brussels,BE)
- 08:00 Impact of tricuspid annular shape on late worsening tricuspid regurgitation after transcatheter aortic implantation: insight from multidetector row computed tomography assessment**
K Hirasawa (Leiden,NL)
- 08:00 Quantification of epicardial fat with cardiac CT and association with cardiovascular risk factors and obstructive coronary disease**
T Mano (Ajuda, Lisboa,PT)
- 08:00 No IV hydration vs IV hydration in prevention of contrast-induced nephropathy: meta-analysis of randomized controlled trials**
- 08:00 Prosthesis position and its influence on complications after transcatheter aortic valve implantation with self-expanding valves**
P Breitbart (Bad Krozingen,DE)
- 08:00 Computed tomography angiography for assessment of paravalvular leaks after surgical valve replacement**
- 08:00 Associations and outcomes of cardiovascular calcifications by computed tomography in atrial fibrillation patients**
TKM Wang (Cleveland,US)
- 08:00 Additional ultra-low-dose protocols in coronary computed tomography angiography scans to early detection of lung cancer**
- 08:00 Optimal measurement location of on-site based CT-derived FFR on midterm prognosis**
Y Nozaki (Tokyo,JP)
- 08:00 Machine learning analysis of chest CT to detect cardiac abnormalities in COVID19**
- 08:00 Novel computed-tomography derived prognostic markers in patients undergoing TAVI with a self-expanding valve**
G Benetos (Athens,GR)
- 08:00 Positive predictive value of CT coronary angiography vs. CT fractional flow reserve in a real-world population**
- 08:00 Coronary perivascular inflammation in type 2 diabetes mellitus patients: the missing piece in the puzzle of their increased cardiovascular risk?**

- 08:00 Clinical significance of aortic arch plaques simultaneously assessed with coronary atherosclerosis on cardiovascular outcomes in patients undergoing coronary CT angiography**
K Otsuka (Osaka,JP)
- 08:00 Accurate and reproducible aortic growth rate mapping via registration of serial contrast-enhanced computed tomography angiograms**
- 08:00 Prediction of inducible perfusion abnormalities on SPECT-MPI based on radiomic analysis, anatomical and plaque characteristics of CTCA using machine learning techniques**
G Kalykakis (Athens,GR)
- 08:00 Characteristics of aortic root and vascular anatomy in bicuspid versus tricuspid aortic valve anatomy**
A Hamdan (Petach Tikva,IL)
- 08:00 Visual estimate of coronary artery calcium predicts prevalent coronary artery disease in patients with respiratory disease**
- 08:00 Integrity of personal radiation protective equipment (PRPE): a 3-year longitudinal follow-up study**
P Kellens (Ghent,BE)
- 08:00 Quantification of myocardial ischemia and subtended myocardial mass at adenosine stress cardiac computed tomography. A feasibility study.**
F Van Driest (Leiden,NL)
- 08:00 Follow up coronary vessel evaluation of magnesium bioresorbable stents with coronary computed tomography angiography**
E Pozo Osinalde (Madrid,ES)
- 08:00 Independent predictors of major cardiovascular events as quantitatively assessed by coronary CT-angiography: a long term follow-up analysis**
- 08:00 Prognostic value of computed tomography derived fractional flow reserve**
Al Ahmed (Houston,US)
- 08:00 Prevalence of coronary artery disease among patients with bicuspid aortic valve stenosis undergoing computed tomography before transcatheter aortic valve implantation**
M Wiessman (Neve Yarak,IL)
- 08:00 Computed tomography vs cardiovascular magnetic resonance imaging derived extracellular volume fraction in patients with stable new-onset chest pain**
B Saberwal (Belvedere,GB)
- 08:00 Coronary artery calcium score to predict coronary CT angiography interpretability. An old problem revisited**
- 08:00 Chronic inflammation in psoriasis promotes visceral adipose tissue association with lipid-rich necrotic core through atherogenic myeloid score**
- 08:00 Prevalence and outcome of extra-cardiac findings in patients referred for cardiac computed tomography angiography**

H Nashat (London,GB)

08:00 Is this atherosclerosis in patients with HIV? Data received by OCT

N Efendieva (Moscow,RU)

08:00 Left appendage morphology as risk factors for cardio-embolism in patients with stroke of undetermined source

I Nardi Agmon (Petah Tikva,IL)

08:00 Epicardial adipose tissue volume is associated with low-attenuation plaque volume in subjects with or without increased visceral fat: a 3-vessel coronary artery analysis with CT angiography

K Otsuka (Osaka,JP)

08:00 The role of cardiovascular calcifications in COVID-19

M Toselli (Bologna,IT)

08:00 Correlation between mitral ct calcium score and wilkins score in rheumatic mitral stenosis: added value of cardiac ct

B Eka Putra (Tangerang,ID)

08:00 Relationship of diabetes to atherosclerotic plaque characteristics of coronary artery lesions by differing angiographic stenosis severity

R Jonas (Merion Station,US)

08:00 Presence of myocardial fibrotic or fat change on cardiac CT influences the width of distribution range of J waves in survivors of ventricular fibrillation

N Funabashi (Chiba,JP)

Learning Objectives:

Categories:

Cardiac Magnetic Resonance ePosters

Session Number: 413

Chairpersons:

- 08:00 Cardiac involvement in patients recovered from coronavirus disease-2019 (COVID-19): a systematic review**
- 08:00 Bioelastic properties of the aorta in children, adolescents and young adults after cardiac transplantation: a cardiovascular magnetic resonance study**
F Mueller (- ,DE)
- 08:00 Lifestyle intervention improves Left atrial strain in type 2 diabetes: results from the DIASTOLIC randomised trial**
A Alfuhied (Leicester,GB)
- 08:00 The left ventricular remodeling assessment by cardiac magnetic resonance in chronic aortic regurgitation; implications for outcome**
- 08:00 Mitral and tricuspid annulus disjunction frequently coexist**
E Abel (Oslo,NO)
- 08:00 Magnetic resonance feature tracking myocardial strain analysis in acute myocarditis: diagnostic value and association with severity of myocardial injury**
Q Gao (- ,CN)
- 08:00 Determinants and prognostic relevance of aortic stiffness in patients with recent ST-elevation myocardial infarction**
I Lechner (Innsbruck,AT)
- 08:00 Segmental evaluation of right ventricular systolic function in atrial septal defect (ASD) type II patients**
- 08:00 Flow vorticity relationships with right ventricular geometry in adult tetralogy of Fallot**
A Elsayed (- ,NZ)
- 08:00 Cardiac magnetic resonance imaging in assessing heart function in patients with Ebstein's anomaly**
O V Mochula (Tomsk,RU)
- 08:00 Reproducibility of non-invasive VT substrate characterization: finding the same paths**
D Villanueva Ospino (Cadiz,ES)
- 08:00 Vascular stiffness in children born after frozen or fresh embryo transfer. A cardiac magnetic resonance imaging study of 8 to 9 year old children**
I Mizrak (Taastrup,DK)
- 08:00 Longitudinal changes in cardiac morphology and function in women with INOCA: results from repeat cardiac magnetic resonance imaging a median of 6 years apart**
S Zamani (Arlington,US)
- 08:00 Correlation between cardiac magnetic resonance feature tracking derived left ventricular strain and morphological characteristics of non-ischemic dilated cardiomyopathy at baseline and follow-up**
E Pozo Osinalde (Madrid,ES)
- 08:00 Evaluation of myocardial strain assessed by CMR tissue-tracking to predict adverse cardiovascular events in patients with cardiac amyloidosis.**
R Fernandez Galera (Vila Real,ES)
- 08:00 Stress cardiac MRI for the evaluation of CCS patients in a real-world tertiary care center**

- 08:00 The role of cardiovascular magnetic resonance imaging with T1 and T2 mapping in sudden cardiac death survivors**
K Gil (Columbus,US)
- 08:00 Cardiac magnetic resonance strain and mechanical dispersion assessment in patients with chronic total coronary artery occlusion**
C Grafton-Clarke (Leicester,GB)
- 08:00 The gray zone of myocardial fibrosis is a better predictor of ventricular arrhythmias than total myocardial fibrosis in patients with previous myocardial infarction**
P Lopes (Lisbon,PT)
- 08:00 Initial COVID-19 symptoms are not predictive of post-COVID recovery inflammatory heart disease detected by cardiac MRI**
- 08:00 A systematic review of the use of magnetic resonance imaging in non-conditional pacemakers and implantable defibrillators**
R Murphy (Dublin 4,IE)
- 08:00 Cardiac magnetic resonance parametric mapping can detect early cardiac involvement of patients with systemic sclerosis**
M Purevsuren (Tokyo,JP)
- 08:00 Contrast-free whole heart myocardial blood flow quantification from magnetic resonance imaging-determination of coronary sinus flow**
- 08:00 Myocardial tissue function and characterization in patients with idiopathic cardiac magnetic resonance myopericarditis: evolutionary analysis**
A Soeiro (Sao Paulo,BR)
- 08:00 The association between invasive microvascular function and CMR-derived microvascular injury indicators and left ventricular function and infarct size at 1-month after reperfused STEMI**
A Demirkiran (Amsterdam,NL)
- 08:00 Left ventricular blood flow energetics after acute ST-segment elevation myocardial infarction associate with left ventricular remodeling**
A Demirkiran (Amsterdam,NL)
- 08:00 Regadenoson stress CMR: Safety, feasibility and hemodynamic response.**
- 08:00 The role of feature-tracking strain analysis in the differentiation of cardiac amyloidosis from hypertrophic cardiomyopathy**
Z Dohy (Budapest,HU)
- 08:00 Looking for appropriate criterias for SCD prevention: prognostic role of MRI in patients with nonischemic ventricular arrhythmias**
B Berdibekov (Moscow,RU)
- 08:00 Stress myocardial blood flow reduced after severe COVID-19, not related to symptoms**

Learning Objectives:

Categories:

**Nuclear Imaging, Cross-Modality and Multi-Modality Imaging
ePosters**

Session Number: 414

Chairpersons:

08:00	Prognostic value of 99mTc-HMDP scintigraphy in elderly patients with chronic heart failure V Uusitalo (Helsinki,FI)	
08:00	Standardized uptake value changes of pericoronary adipose tissue by chemo-radiotherapy: a longitudinal study in head and neck cancer patients R Ma (Groningen,NL)	Withdrawn
08:00	Association of the extent of myocardial ischemia with outcomes in patients with suspected coronary artery disease in Japan: a cohort study T Kato (Kyoto,JP)	
08:00	Mortality among patients undergoing Dipyridamole 99mTc Sestamibi SPECT: Impact of blunted heart rate response and abnormal scans A Izhaki (Holon,IL)	
08:00	Diagnostic value of simultaneous 99mTc-sestamibi/123I-BMIPP imaging parameters for predicting the improvement of left ventricular wall motion after acute myocardial infarction using CZT SPECT system S Hida (Tokyo,JP)	
08:00	Impact of age, sex, and cardiac size on the diagnostic performance of myocardial perfusion single-photon emission computed tomography: Insights from the REFINE SPECT registry M Randazzo (New York,US)	
08:00	Uptake of [68Ga]-NODAGA-E[(cRGDyK)]₂ is related to improvement in pump function in rats with chronic ischemic cardiomyopathy treated with cell therapy B Follin (Copenhagen,DK)	
08:00	The effect of chronic total coronary occlusion percutaneous coronary intervention on absolute perfusion in remote myocardium R De Winter (Amsterdam,NL)	
08:00	Association of arterial inflammation as assessed by 18FDG-PET/CT and chemotherapy, in patients with lymphoma	
08:00	Comorbidities associated with reduced myocardial flow reserve in non-obstructive disease. E Alexanderson Rosas (Mexico,MX)	
08:00	Integrative analysis of hybrid PET/MR improves recovery prediction of left ventricular contractility after percutaneous revascularisation of coronary chronic total occlusions A Villagran Asiares (Munich,DE)	
08:00	SPECT-guided myocardial perfusion and metabolic fatty acid planar imaging to assess the severity of the pulmonary hypertension in patients with chronic thromboembolic pulmonary hypertension R Ono (Chiba,JP)	
08:00	Circadian disruption on the susceptibility to sepsis-induced cardiac dysfunction: a prospective multi-modal imaging study	
08:00	Mechanical dispersion identifies patients with extensive electroanatomic abnormalities in Brugada syndrome M Ciabatti (Arezzo,IT)	
08:00	Mechanoenergetic coupling in heart failure with preserved, mid-range and reduced left ventricular ejection fraction	

- 08:00** **Derivation and validation of myocardial bridge characteristics by optical coherence tomography: a prospective multimodality imaging study**
T Otsuka (Bern,CH)
- 08:00** **Added prognostic value of plaque burden to computed tomography angiography anatomic assessment and myocardial perfusion imaging in patients with diabetes Mellitus**
T Alnabelsi (- ,US)
- 08:00** **Cardiac mechanics as predictors of left ventricular reverse remodelling in patients with dilated non-ischemic cardiomyopathy**
M Ferrandez (Madrid,ES)
- 08:00** **Assessment of stent optimization in clinical practice using optical coherence tomography: a multicentric observational study**
H Rai (Dublin,IE)
- 08:00** **Intravascular ultrasound for peri-procedural geometric orifice area measurement during transcatheter pulmonary valve replacement**
L Kalinczuk (Warsaw-Anin,PL)
- 08:00** **Three-dimensional echocardiography in transcatheter edge-to-edge tricuspid valve repair**
M Orban (Munich,DE)
- 08:00** **Relationship between left ventricular global longitudinal strain, infarct size and left ventricular function in patients with acute myocardial infarction in a stem cell therapy study.**
- 08:00** **The role of left atrial wall thickness and pulmonary vein anatomy in success of pulmonary vein isolation using the CLOSE protocol.**
M Boussoussou (Budapest,HU)

Learning Objectives:

Categories:

**Coronary Artery Disease (Chronic)/Chronic Coronary Syndromes
ePosters**

Session Number: 415

Chairpersons:

- 08:00** **The quest for GRACE 3.0: improving our beloved risk score with machine learning**
J Sousa (Coimbra,PT)
- 08:00** **Percutaneous coronary interventions in patients with left main coronary artery pseudobifurcation lesions: 5-years follow-up**
08:00 **Five-year outcomes of biodegradable polymer drug-eluting stents versus second-generation durable polymer drug-eluting stents undergoing complex percutaneous coronary intervention**
N Xu (Beijing,CN)
- 08:00** **Use of intima media thickness in the assessment of the development of preclinical atherosclerosis**
RNN Najafov (Baku,AZ)
- 08:00** **Long term outcomes of patients with chronic inflammatory diseases after percutaneous coronary intervention**
O Kobo (Rakefet,IL)
- 08:00** **Feasibility, safety and long term outcomes of complex left main bifurcation treatment using the nano inverted t stenting: a multicentre registry**
G Rigatelli (Legnago,IT)
- 08:00** **Is GLP-1 insufficiency a coronary risk factor? - a multicenter observational study, BOREAS-CAD2**
T Miura (Sapporo,JP)
- 08:00** **The effect of P2Y12 inhibitor pretreatment vs. no pretreatment on ischemic outcomes among patients with NSTEMI-ACS: an updated meta-analysis and meta-regression pooling 106,405 patients from 12 studies**
JA Borovac (Split,HR)
- 08:00** **The effect of P2Y12 inhibitor pretreatment vs. no pretreatment on major bleeding among patients with NSTEMI-ACS: an updated meta-analysis and meta-regression pooling 41,548 patients from 11 studies**
JA Borovac (Split,HR)
- 08:00** **Effect of type 2 diabetes mellitus and mutations of the cyp2c19 gene on the platelets functional activity of patients with ischemic heart heart disease**
- 08:00** **Elevated level of plasma big endothelin-1 associated with in-stent restenosis: a retrospective study in patients undergoing percutaneous coronary intervention**
Y Ma (Beijing,CN)
- 08:00** **Prevalence and mortality of malnutrition in patients with coronary artery disease: a 46,485 Chinese cohort study**
- 08:00** **Plasma lipoprotein(a) is associated with long-term all-cause mortality among patients with coronary artery disease**
- 08:00** **Malnutrition affects cholesterol paradox in coronary artery disease: a 41,229 chinese cohort study**
- 08:00** **A novel prediction model based on laboratory examination for acute kidney injury after coronary angiography**
- 08:00** **Trends in 30-day and 1-year mortality among patients with coronary artery disease: a retrospective cohort study in china, 2007 to 2017**

- 08:00 Assessment of the visceral adipose tissue by magnetic resonance imaging in patients with coronary artery disease: link to metabolism disorders and condition of the abdominal aorta**
N Ryumshina (Tomsk,RU)
- 08:00 Study of the functional state of the heart in patients with chronic ischemia depending on the genotype of the natriuretic peptide system.**
- 08:00 PRECISE-DAPT score for long-term bleeding prediction after acute coronary syndrome in patients managed without percutaneous coronary intervention**
- 08:00 Effect of endoscopic versus open saphenous vein harvesting technique: graft patency and leg wound comp**
Y Mubarak (El Minya,EG)
- 08:00 Prognostic significance of anemia in women with suspected ischemia, an insight from the women ischemia syndrome evaluation study (WISE)**
A Asif (Los Angeles,US)
- 08:00 Myocardial revascularization strategies in ST elevation myocardial infarction without urgent revascularization: insight from a nationwide study.**
P Deharo (Marseille,FR)
- 08:00 Persistent/progressive subclinical contrast-induced nephropathy - predictors and effects of parenteral hydration. A prospective study in patients undergoing coronary angioplasty.**
RC SERBAN (Santana De Mures,RO)
- 08:00 Thrombosis and major bleeding risk after primary percutaneous coronary intervention among patients with multi-vessels coronary artery disease**
X Zhao (Beijing,CN)
- 08:00 The HEART pathway and EDACS-ADP combined with a 0/1-hour hs-cTnT protocol for rapid rule-out of chest pain patients in the emergency department**
T Nilsson (- ,SE)
- 08:00 Prediction of plaque vulnerability and clinical outcome by a deep learning-based algorithm for optical coherence tomography imaging in coronary artery disease**
S Uemura (Okayama,JP)
- 08:00 Temporal trends in the characteristics, treatment and clinical outcomes of conservatively managed patients with non-ST elevation acute coronary syndrome: ACSIS registry 2000-2016**
- 08:00 Optimal strategy for antiplatelet therapy after coronary drug-eluting stent implantation in high-risk "TWILIGHT-like" patients with diabetes mellitus**
- 08:00 Feasibility of virtual fractional flow reserve derived from coronary angiography and its correlation with invasive functional assessment**
T Mano (Ajuda, Lisboa,PT)
- 08:00 Virtual fractional flow reserve derived from coronary angiography - artery and lesion specific correlations**
T Mano (Ajuda, Lisboa,PT)
- 08:00 Relationship of the degree of coronary lesion and serum adipokine levels in**

patients with myocardial infarction

- 08:00 The identification of predictors and characteristics of the course of ACS in patients undergoing COVID-19**
S Grigoryan (Yerevan,AM)
- 08:00 Relationship of the degree of coronary lesion and the expression of adipocytokines of local fat depots in patients with coronary artery disease.**
- 08:00 Anemia impact on non-fatal outcomes in chronic and acute coronary syndromes: results of local long-term registry**
L Malinova (Saratov,RU)
- 08:00 Priority of non-HDL-C assessment to predict occurrence of new lesions after percutaneous coronary intervention in stable angina patients with diabetes mellitus prescribed strong statins**
D Kanda (Kagoshima,JP)
- 08:00 Type 2 diabetes, chronic kidney disease and major cardiovascular events in patients with established coronary artery disease**
- 08:00 Comorbidities associated with anatomical and functional myocardial impairments assessed by 13 N-ammonia positron emission tomography**
E Alexanderson Rosas (Mexico,MX)
- 08:00 A novel flow and pressure catheter for complete interventional cardiology physiology management.**
MM Sette (Winterthur,CH)
- 08:00 Effect of PM2.5 on circulating inflammatory cells and microRNA expression in acute coronary syndrome**
A Cecconi (Madrid,ES)
- 08:00 Differential prognostic value of resistin for cardiovascular death in patients with stable coronary artery disease according to the presence of metabolic syndrome**
N Kosmas (Athens,GR)
- 08:00 Utilising clinical data to personalise boundary conditions significantly improves the accuracy of angiography based virtual FFR**
R Gosling (Sheffield,GB)
- 08:00 Long term outcome after a first myocardial infarction**
M Almosawi (Stockholm,SE)
- 08:00 Agreement between high-sensitivity C-reactive protein and C-reactive protein assays**
E Han (Vienna,AT)
- 08:00 Real world experience with coronary sinus reducer implantation for the treatment of refractory angina: a single-centre experience**
JP Dias Ferreira Reis (Lisboa,PT)
- 08:00 Tenascin-C accelerates cardiac injury by accentuating pyroptosis after myocardial infarction**
R Huang (Beijing,CN)
- 08:00 Effect of aspirin treatment duration on clinical outcomes in acute coronary syndrome patients with early aspirin discontinuation and received P2Y12 inhibitor monotherapy**

- 08:00 GALNT4 promotes monocytes adhesion and transmigration by regulating O-Glycosylation of PSGL-1 in patients with acute coronary syndrome**
R Huang (Beijing,CN)
- 08:00 Comparison between ticagrelor and clopidogrel in elderly patients undergoing percutaneous coronary intervention**
R Huang (Beijing,CN)
- 08:00 Meta-analysis comparing sirolimus bioresorbable scaffolds versus everolimus-eluting metallic stents in coronary arterial disease**
R Prasad (- ,US)
- 08:00 Is colchicine safe for cardiovascular indications?**
M Imazio (Udine,IT)
- 08:00 Lung ultrasound can predict heart failure developing and mortality during hospitalization in ST-segment elevation myocardial infarction**
J Carreras (Barcelona,ES)
- 08:00 Comparing loading strategies of P2Y12 inhibitors in patients undergoing elective PCI : A network meta-analysis**
R Gupta (Allentown,US)
- 08:00 Plasma PCSK9 levels increase following percutaneous coronary interventions**
RR Azar (Achrafieh-Beirut,LB)
- 08:00 Differential microRNAs profile analysis in pericoronary adipose tissue adjacent to atherosclerotic plaque**
M Marketou (Heraklio,GR)
- 08:00 Unshielded magnetocardiography contributes to non-invasively rule-out ischemic heart disease in patients with chest pain of uncertain origin**
- 08:00 Gamma glutamyl transferase and its fractions to predict coronary artery calcium and outcome in the general population**
S Chiappino (Massa,IT)
- 08:00 Impact of the COVID-19 pandemic on catheterization laboratory procedural volumes at a tertiary cardiac centre in a low- & middle-income country in South Asia**
F Cader (Dhaka,BD)
- 08:00 Comparison of clinical effect of living alone between urban area and rural area in patient with acute coronary syndrome**
M Takeuchi (Tokyo,JP)
- 08:00 Prognosis and prescriptions of glifozines in candidates patients in a prospective, multicenter, quality-improvement study of patients with acute coronary syndrome**
C Montalto (Pavia,IT)
- 08:00 Association between distance to tertiary hospital and cardiovascular outcomes in coronary artery disease patients**
R Gonzalez-Manzanares (Cordoba,ES)
- 08:00 Epicardial adipose tissue and culprit lesions in acute chest pain. The EPIC-ACS study**
S Hendricks (Essen,DE)

- 08:00 Value of magnetocardiography in chronic coronary disease detection: results of multicenter trial**
I Chaikovsky (Kiev,UA)
- 08:00 Impact of intracoronary adenosine administration during primary PCI**
A Metwaly (- ,SA)
- 08:00 Acute myocardial infarction at an early age - importance of acute chest pain fast track in patient management**
D Carvalho (- ,PT)
- 08:00 Acute myocarditis with autoimmune features: one-year follow-up with CMR**
- 08:00 Sex-specific differences in first event of st- elevation myocardial infarction; new insights on age-related mortality.**
AJ Fischer (Muenster,DE)
- 08:00 A single-center prospective study: assessment of coronary arteries during routine echocardiography; feasibility and prognostic value**
A Zagatina (St. Petersburg,RU)
- 08:00 CSL112 (human apolipoprotein A-I) infusion rapidly increases apoA-I exchange rate (AER) when administered to patients post myocardial infarction**
B Kingwell (Parkville,AU)
- 08:00 P2Y12 inhibitors in patients with non-ST-segment elevation acute coronary syndrome: systematic review and network meta-analysis of randomized trials**
T Fujisaki (New York,US)
- 08:00 Five-year Follow-Up Outcomes of Precise-DAPT Score in Patients after Percutaneous Coronary Intervention: a Large Scale Real-world Study From China**
J Yuan (Beijing,CN)
- 08:00 The association between diabetes and mortality in young adults presenting with myocardial infarction**
K Gyurjian (Los Angeles,US)
- 08:00 The relationship among extent of lipid-rich plaque, factors associated with a reduction of lipid-rich plaque and late lumen loss: a near-infrared spectroscopy and intravascular ultrasound study**
N Takahashi (Tokyo,JP)
- 08:00 Coronary lipid-rich plaque characteristics with acute coronary syndrome and chronic coronary syndrome: a near infrared spectroscopy and intravascular ultrasound study**
N Takahashi (Tokyo,JP)
- 08:00 Exploring optimal heart team protocol to improve decision-making stability for complex coronary artery disease: a sequential explanatory mixed method study**
- 08:00 Clinical characteristics and outcomes in young patients with myocardial infarction**
J Lv (Beijing,CN)
- 08:00 Predictive value of neutrophil percentage-to-albumin ratio for contrast-associated acute kidney injury in patients without chronic kidney disease undergoing elective percutaneous coronary intervention**
X Lin (Fuzhou,CN)
- 08:00 The De-Ritis ratio is associated with contrast-associated acute kidney injury in patients undergoing elective percutaneous coronary intervention**

- 08:00 Association between the triglyceride-glucose index and a procoagulant state in coronary artery disease**
D Kosuta (Ljubljana,SI)
- 08:00 Dobutamine stress echocardiography-induced Takotsubo cardiomyopathy. Which triggers?**
P Meimoun (Compiègne,FR)
- 08:00 Incidence, predictors, and clinical impact of coronary artery ectasia in patients with atherosclerotic heart disease and undergoing percutaneous coronary intervention**
- 08:00 Gender differences in characteristics, treatment and outcomes in ST elevation myocardial infarction patients in four european countries**
T Hellgren (- ,SE)
- 08:00 Coronary angiography in patients with native or prosthetic aortic-valve endocarditis: outcomes and implications for myocardial revascularisation**
T Berger (- ,DE)
- 08:00 The triglyceride/HDL cholesterol ratio and TyG index to predict coronary artery calcium, epicardial fat and outcome in the general population**
S Chiappino (Massa,IT)
- 08:00 Statins for primary prevention among elderly men and women.**
M Bergami (Bologna,IT)
- 08:00 Impact of musculoskeletal conditions on the perioperative period in patients with stable coronary artery disease**
NA Terentyeva (Kemerovo,RU)
- 08:00 Mechanisms of cardiac protection by pirfenidone in the post-myocardial infarction setting**
O Iborra Egea (Badalona,ES)
- 08:00 Comparison of lesion-specific vs. vessel-level atherosclerotic features by coronary computed tomography angiography for the diagnosis of aschemia: (credence substudy)**
- 08:00 Comparison of the GRACE score, TIMI score and a New Laboratorial Score to predict adverse outcomes in acute coronary syndrome**
- 08:00 Clinical effects of early sacubitril/valsartan administration in patients with ST-segment elevation myocardial infarction: a systematic review and meta-analysis**
F Condello (Vibo Valentia,IT)
- 08:00 Is there association between epicardial obesity and the severity of coronary artery atherosclerosis?**
- 08:00 Long-term clinical outcomes of patients with chronic total coronary occlusion caused by intra-stent re-stenosis**
O Gomez Monterrosas (Puebla,MX)
- 08:00 Electrocardiographic predictors of ventricular fibrillation in ST-segment elevation acute myocardial infarction**

- 08:00 Restrictive vs liberal blood transfusion strategy in patients with symptomatic coronary artery disease: meta-analysis from randomized controlled trials**
- 08:00 Association of beta-blockers or inhibitors of renin-angiotensin system with clinical outcomes in patients with mid-range left ventricular ejection fraction after acute myocardial infarction**
S Joo (Jeju,KR)
- 08:00 Comparison of fractional flow reserve and ECG stress test: predictors of a false positive test result**
P Budrys (Vilnius,LT)
- 08:00 Comparison of clinical outcomes between percutaneous coronary intervention for the de novo lesion versus in-stent restenosis lesion**
M Takeuchi (Tokyo,JP)
- 08:00 Elevated one-hour postload plasma glucose levels identify coronary heart disease patients with greater severity of coronary artery lesions and higher risk of one-year re-admission**
- 08:00 Association of peri-procedural myocardial infarction with clinical outcome after stenting true coronary bifurcation lesions**
- 08:00 Acute and long-term outcomes of ST-Elevation Myocardial Infarction in cancer patients**
- 08:00 Periodontitis and cardiovascular outcome - a prospective follow-up of the PAROKRANK cohort**
G Ferrannini (Stockholm,SE)
- 08:00 Shockwave intravascular lithotripsy facilitated percutaneous coronary intervention in patients with calcified coronary artery disease: a systematic review and meta-analysis of observational studies.**
- 08:00 External validation of the Global Registry of Acute Coronary Events (GRACE) risk score: Insights from the FORCE-ACS registry**
N Van Der Sangen (- ,NL)
- 08:00 The clinical significance of procedural myocardial infarction in stable ischemic heart disease patients and implications for interpretation of Ischemia trial a registry analysis**
S Das (Canberra,AU)
- 08:00 Diagnostic performance of fractional flow reserve derived from computed tomography in the stented coronary arteries**
T Toba (Kobe,JP)
- 08:00 Utility of dobutamine stress echo in predicting cardiac events**
- 08:00 Impact of previous cardiac conditions in prognosis and clinical management of patient with COVID-19 infection**
S Antonana (- ,ES)
- 08:00 Features of the distribution of polymorphic variants of candidate genes and**

clinical presentation of long-term period in patients with myocardial infarction and diabetic nephropathy

- 08:00 Acute coronary syndrome outside and during the COVID-19 pandemic**
VS Koriagin (Perm,RU)
- 08:00 Identification of the characteristics of occlusive myocardial infarction: Are there any tell-tale signs?**
C Knoery (Inverness,GB)
- 08:00 Genomic prediction of cardiovascular events in a coronary Southern European population**
- 08:00 Impact of wall shear stress affected by anatomical difference between acute and chronic coronary syndrome in patients with LAD proximal disease**
- 08:00 The fast progressor patient as an emerging clinical entity in patients with coronary atherosclerosis; exploratory study on possible molecular substrates**
T Garcia Camarero (Santander,ES)
- 08:00 Contemporary management strategies and outcomes in patients with Non ST elevation myocardial infarction.**
F Orso (Firenze,IT)
- 08:00 Hospital admissions for acute coronary syndromes during the first SARS-CoV-2 epidemic wave: time course, patients characteristics and in-hospital mortality.**
F Orso (Firenze,IT)
- 08:00 Frequency and prognostic impact of periprocedural myocardial infarction determined by various MI definitions in patients with chronic coronary syndromes undergoing percutaneous coronary intervention**
Y Ueki (Bern,CH)
- 08:00 TMAO (trimethylamine n-oxide) as a potential biomarker of individual severe stress perception in posttraumatic stress disorder (PTSD)-vulnerable patients after acute myocardial infarction**
D von Lewinski (Graz,AT)
- 08:00 Elevated soluble lectin-like oxidised low-density lipoprotein receptor-1 (sLOX-1) associated with increased risk for heart failure and MACE after an acute coronary event**
- 08:00 Immediate versus staged revascularisation of non-culprit arteries in patients presenting with acute coronary syndrome: a systematic review and meta-analysis**
- 08:00 TH1 lymphocytes in the perivascular adipose tissue correlate with plaque composition and increase the risk of intraplaque haemorrhages in coronary arteries: an autopsy study**
D Farias-Itao (- ,BR)
- 08:00 Characterization of residual lipid-rich plaques despite achieving LDL-C <1.8mmol/l with a statin in patients with coronary artery disease: insights from the REASSURE-NIRS registry**
S Kitahara (Suita,JP)
- 08:00 Comparison of resting full-cycle ratio and CT-fractional flow reserve in patients with severe aortic stenosis**

- 08:00 Proteomic biomarker profiles and vascular dysfunction in angina with no obstructive coronary artery disease**
- 08:00 Downstream testing after exercise ECG stress test - can we predict ischemia on subsequent vasodilator stress cardiac magnetic resonance?**
A Gabaldon Perez (Valencia,ES)
- 08:00 Baseline troponin-t is powerful predictor of mortality after coronary bifurcation stenting**
N Mileva (Sofia,BG)
- 08:00 Diagnostic value of coronary flow reserve assessment by dynamic 99mTc-MIBI SPECT-CZT gamma camera for the detection of coronary artery disease.**
KM Cygulska (Lodz,PL)
- 08:00 Extended dual antiplatelet therapy with ticagrelor 60 mg in patients with a history of myocardial infarction: the design and initial findings from ALETHEIA, a multi-national observational study**
- 08:00 D-Dimer as a prognostic factor in patients admitted to a tertiary care intensive coronary care unit**
- 08:00 Association of high-sensitivity Troponin T and I blood levels with outcome of coronary artery disease - results from the INTERCATH cohort**
B Bay (Hamburg,DE)
- 08:00 Predicting mortality in cardiovascular patients using electrocardiogram data and artificial intelligence**
S Wegener (- ,DE)
- 08:00 Patients with NSTEMI have fewer symptoms and higher quality of life three months after admission for acute chest pain**
- 08:00 Incidence, predictors and prognostic role of complications occurring during provocative testing with acetylcholine in patients with myocardial ischemia and non-obstructive coronary arteries**
R Rinaldi (Senigallia,IT)
- 08:00 Comparison of CABG and PCI in NSTEMI-ACS patients with three-vessel coronary artery disease**
T Li (Beijing,CN)
- 08:00 Left ventricular thrombus and anticoagulation: how long should we treat?**
A Lorente Ros (Madrid,ES)
- 08:00 The impact of non-pharmacological therapies on cardiovascular outcomes in patients with refractory angina: a systematic review and meta-analysis of randomized controlled trials**
S Verhemel (Cardiff,GB)
- 08:00 Correlation of stress testing with anatomically significant coronary artery disease in the contemporary patient population**
- 08:00 Predictors of coronary slow flow phenomenon in patients with angina and normal epicardial coronaries**

V Reddy (Hyderabad,IN)

- 08:00 Application of enhanced external counterpulsation in treating patients with stable ischemic heart disease**
K Karaganov (Moscow,RU)
- 08:00 Association of growth differential factor-15, hs-cardiac troponin T and N-terminal pro-brain natriuretic peptide with coronary artery disease in patients undergoing elective coronary angiography**
RR Azar (Achrafieh-Beirut,LB)
- 08:00 worse outcomes of ACS patients without versus with traditional cardiovascular risk factors**
A Shiyovich (Petah Tikva,IL)
- 08:00 Clinical characteristics and prognosis in patients with multi-vessel coronary spasm -Comparison with those in patients with single-vessel coronary spasm-**
H Teragawa (Hiroshima,JP)
- 08:00 Discordance between plain coronary angiography and quantitative flow ratio in revascularization guidance**
- 08:00 Incidence, determinants and impact of acute kidney injury in ACS patients with versus without diabetes mellitus**
A Shiyovich (Petah Tikva,IL)
- 08:00 Mortality after bleeding versus myocardial infarction in coronary artery disease: a systematic review and meta-analysis**
A Oliva (Milano,IT)
- 08:00 Angiography vs physiology-based deferral of revascularization in patients with reduced left ventricular ejection fraction: a 10-year clinical follow-up**
E Gallinoro (Aalst,BE)
- 08:00 Physiological and angiographic outcomes of PCI in calcified lesions after rotational atherectomy or intravascular lithotripsy**
E Gallinoro (Aalst,BE)
- 08:00 Remote ischemic conditioning fails to protect against ischemia-reperfusion injury in patients with untreated familial hypercholesterolemia**
O Kovamees (Stockholm,SE)
- 08:00 The gut hormone GIP predicts CV prognosis in patients with acute myocardial infarction**
F Kahles (Aachen,DE)
- 08:00 Stent-Save a Life international survey on the practice of primary coronary angioplasty during the COVID-19 pandemic**
H Pereira (Almada,PT)
- 08:00 Is there a real difference in approach between women and men with non-ST-segment elevation myocardial infarction? Insights from a multicentre national registry**
M Cabral (Leiria,PT)
- 08:00 Prognostic significance of percutaneous coronary intervention associated blood loss in acute coronary syndrome**
E Monteiro (Britelo,PT)
- 08:00 Prognostic effect of peripheral vascular disease in patients undergoing coronary artery bypass graft surgery.**

- 08:00 Mid-term mortality after stenting of distal left main stenosis with regular, third generation drug eluting stent or dedicated bifurcation stent or surgery-registry based,all-comers data**
G Zlatanчева (Sofia,BG)
- 08:00 Bedside assessment of dependence as an independent correlate of mortality in elderly patients admitted for Acute Coronary Syndromes**
- 08:00 Coronary microvascular function in patients with angina with no obstructive coronary artery disease-What factors affect it clinically or angiographically?**
H Teragawa (Hiroshima,JP)
- 08:00 Comparing one-year outcomes of invasive versus medical management of patients with prior coronary artery bypass graft surgery presenting with non-ST elevation myocardial infarction**
M T Ramtoola (Blackburn,GB)
- 08:00 Early and chronic phased local coagulative responses following bioresorbable-polymer drug-eluting stent implantation**
K Yamaguchi (Tokushima,JP)
- 08:00 Machine learning aids clinical decision making in patients presenting with angina and non-obstructive coronary artery disease**
A Ahmad (Rochester,US)
- 08:00 Impact of epicardial adipose tissue accumulation on left ventricular mass and hypertrophy in non-obstructive coronary artery disease**
I Khan (Bergen,NO)
- 08:00 Assessing the applicability and outcomes of the COMPASS trial a large cohort of atherosclerotic disease patients**
R Welsh (Edmonton,CA)
- 08:00 The prognostic value of the ESC quality indicators in patients with acute myocardial infarction: a systematic review**
A Perello-Bordoy (Portol,ES)
- 08:00 Increased classical monocyte subsets in South Asians compared to White Caucasians at risk for coronary atherosclerosis**
F Hosseini (Vancouver,CA)
- 08:00 Between-hospital variation in outcomes of coronary artery bypass grafting in China, 2013-2019**
- 08:00 Characteristics and in-hospital outcomes among patients with type 2 myocardial infarction**
C Torres (Miami Beach,US)
- 08:00 Comparison of in-hospital outcomes and 30-days readmissions between type 1 and type 2 myocardial infarction patients: a study of the nationwide readmissions database**
L Wu (New York,US)
- 08:00 Deep learning algorithm predicts angiographic coronary artery disease in stable patients using only a standard 12-lead electrocardiogram**
- 08:00 Utility of perivascular fat attenuation index for predicting outcomes in patients**

referred for invasive coronary angiography

- 08:00 Potential benefits of ticagrelor plus aspirin in Chinese patients with stable coronary artery disease and diabetes**
W Sun (Hong Kong,HK)
- 08:00 Trends and outcomes in opioid related cardiac arrest in a contemporary US population from 2012-18**
S Malik (- ,US)
- 08:00 Bone marrow and splenic metabolic activity by 18F-FDG PET/CT are associated with noncalcified coronary burden and lipid-rich necrotic core in psoriasis**
- 08:00 Cardiac and other presentation and clinical outcomes of covid-19 pandemic among different ethnic and religious populations in the city of Jerusalem**
E Asher (Jerusalem,IL)
- 08:00 Association between platelet reactivity and long-term bleeding complications following percutaneous coronary intervention in patients with and without diabetes**
- 08:00 Lipid-lowering therapy is not intensified beyond 3-months if coronary angiography with fractional flow reserve (FFR) suggests non-obstructive coronary disease: a missed opportunity for prevention?**
RS Vasudevan (La Jolla,US)
- 08:00 Percutaneous coronary intervention in patients with peripheral artery disease and adverse cardiovascular adverse event and bleeding**
MG Kang (Jinju,KR)
- 08:00 ATHENA China: a descriptive, retrospective, cohort study of the burden of illness in type 2 diabetic patients at high risk of cardiovascular events without prior myocardial infarction or stroke**
Y Li (Liaoning,CN)
- 08:00 Ticagrelor or clopidogrel after acute coronary syndrome in the elderly: a propensity score matching analysis from 16 653 patients included in two large multinational registries**
A Spirito (- ,IT)
- 08:00 NANOLUTE REGISTRY: safety and efficacy of Sirolimus coated balloon with nanolute technology in real-world patients with acute coronary syndrome**
- 08:00 Trimetazidine as adjunctive therapy for decreasing major adverse cardiac events in coronary artery disease patients undergoing reperfusion strategy: a meta-analysis of randomized controlled trials**
CG Saroca (Taguig,PH)
- 08:00 A meta-analysis of randomised controlled trials investigating the impact of colchicine on major adverse cardiovascular events in acute coronary syndrome**
N Blake (Dublin,IE)
- 08:00 Circulating chaperone GRP78 is elevated in patients with coronary artery disease and reduces vascular inflammation in human coronary endothelial cells**
E Repges (- ,DE)
- 08:00 Electronic health records features associated to coronary artery disease in patients with chest pain**

- 08:00** **Dual antithrombotic therapy on early clinical outcomes in patients with atrial fibrillation after percutaneous coronary intervention: a nationwide study in the era of NOAC**
- 08:00** **Associations between the PARIS ischaemic and bleeding risk scores and 1-year mortality in an all-comers Australian national PCI cohort**
- 08:00** **Associations between metabolic syndrome at index PCI and 1-year outcomes**
- 08:00** **Artificial intelligence approach improves ischaemia prediction beyond the known pretest probability scores**
A Bakula (London,GB)
- 08:00** **Symptoms reported in calls to emergency medical services 24 hours prior to out-of-hospital cardiac arrest**
F Gnesin (Hilleroed,DK)
- 08:00** **New onset atrial fibrillation in STEMI patients: main prognostic factors and clinical outcome**
- 08:00** **Predictive value of the left ventricular function in coronary artery disease: Should we tailor risk-stratification for men and women?**
M Molenaar (Alphen Aan Den Rijn,NL)
- 08:00** **Software supported robotic PCI in coronary arteries - comparison from the ROBO.pci trial**
- 08:00** **The role of speckle tracking echocardiography in the identification of culprit lesion in patients with non ST-segment elevation acute coronary syndrome**
G Chiarello (Corsano,IT)
- 08:00** **Asymmetric Dimethylarginine (ADMA) mediates the effect of miRNA-762 on all-cause mortality in patients with coronary artery disease**
N Jarzebska (- ,DE)
- 08:00** **Impact of morphine use on mortality in STEMI patients treated with primary PCI - results from a new registry**
D Szabo (Budapest,HU)
- 08:00** **Gender-specific difference of clinical and plaque characteristics in myocardial infarction with non-obstructive artery (MINOCA): insights from optical coherence tomography**
M Zeng (- ,CN)
- 08:00** **Evaluation of myocardial reperfusion in patients undergoing cangrelor supported primary PCI for STEMI.**
I Muraca (Firenze,IT)
- 08:00** **Troponin to risk stratify patients with suspected acute coronary syndrome for computed tomography coronary angiography**
K Lee (Edinburgh,GB)
- 08:00** **The real-world experience of the impact of non-invasive FFR-CT on revascularisation rates in 730 patients with mild to moderate risk of coronary artery disease.**

- 08:00 Impact of nodular calcification on the outcomes of patients with acute coronary syndrome (ACS) treated with primary percutaneous coronary intervention (PCI)**
A Demuyakor (Harbin,CN)
- 08:00 Hyperaemic and non-hyperaemic pressure indices of coronary stenosis severity in patients with chronic kidney disease.**
A Travieso Gonzalez (Madrid,ES)
- 08:00 A meta-analysis of randomized controlled studies comparing off-pump vs on-pump CABG in the elderly**
- 08:00 Risk scores for risk stratification in chronic coronary syndrome and their improvement by Gensini and SYNTAX scores**
C Blaum (Hamburg,DE)
- 08:00 Features of secondary prevention in young stemi patients**
D Bilyi (Kyiv,UA)
- 08:00 Platelet reactivity and bleeding outcomes in female patients presenting with ST-segment elevation myocardial infarction: A COMPARE CRUSH substudy**
R Vogel (- ,NL)
- 08:00 Coronary artery disease and cardiovascular outcomes in patients with type 2 myocardial infarction**
C Taggart (Edinburgh,GB)
- 08:00 Prognostic value of a novel index: computational pressure-flow dynamics derived fractional flow reserve in patients with stable coronary artery disease treated with optimal medical therapy alone**
A Li (Hong Kong,HK)
- 08:00 Association between non-wire based computational angiography fractional flow reserve treatment threshold and major adverse cardiac events in patients with stable coronary artery disease**
- 08:00 High plasma levels of soluble LOX-1 portends poor survival in acute coronary syndromes beyond GRACE 2.0: A multicentre prospective cohort study**
- 08:00 Moving shear stress towards the clinic: preclinical comparison of optical coherence tomography-based versus angiography-based time-averaged wall shear stress estimations**
J Naser (- ,GB)
- 08:00 Infectious agents, protein electrophoresis and immunoglobulin levels in patients with coronary artery ectasia**
B Cuglan (Istanbul,TR)
- 08:00 Long-term effects of a community-based lifestyle intervention in patients with coronary artery disease; an extended follow-up of the RESPONSE-2 trial**
A Tijssen (Amsterdam,NL)
- 08:00 FFRCT and Invasive Coronary Angiography - assessing concordance in an unselected UK real world population**
- 08:00 Clinical significance of microRNA-126 in Coronary artery disease patients**

- 08:00 Selective inhibition of Equilibrative Nucleoside Transporter-1 (ENT-1) improves coronary blood flow after stress test.**
- 08:00 Prevalence of familial hypercholesterolemia in patients presenting with premature acute coronary syndrome**
M Hauguel (Meudon,FR)
- 08:00 New insights into the optimal DAPT duration for high-risk patients with diabetes following PCI**
- 08:00 The burden of ischaemic heart disease in Brazil from 1990 to 2019 and the association between temporal changes and socioeconomic level**
F Cesena (Guarulhos,BR)
- 08:00 Assessing vessel parameters during coronary vasospastic angina by multi-detector row computed tomography angiography**
- 08:00 Ticagrelor monotherapy versus dual anti-platelet therapy in patients undergoing percutaneous coronary intervention: a subgroup analysis of safety in multiple comorbidities.**
M Patel (Westerville,US)
- 08:00 Cavitation on top of collision breaks the cover of coronary plaques and triggers acute coronary syndrome**
- 08:00 Efficacy and safety of under-dose non-vitamin K antagonist oral anticoagulant in low-risk patients with atrial fibrillation: Insights from a nationwide population-based cohort study**

Learning Objectives:

Categories:

Acute Coronary Syndromes ePosters

Session Number: 416

Chairpersons:

- 08:00 Optimal timing of intervention in NSTEMI-ACS without pre-treatment**
I Almeida (Barreiro,PT)
- 08:00 Antithrombotic strategy in patients with atrial fibrillation and acute coronary syndrome**
I Almeida (Barreiro,PT)
- 08:00 Lipid Profile and Influence of APOC3 in Indian Patients with Acute Myocardial Infarction: A Case-Control Study**
D Tripathi (Lucknow,IN)
- 08:00 Drug-eluting balloon catheters in the treatment of left main coronary artery bifurcation lesions: 4-years follow-up**
D Maximkin (Moscow,RU)
- 08:00 Safety and efficacy of radial access vs femoral access in ST-segment elevation myocardial infarction: A meta-analysis of randomized controlled trials**
- 08:00 Clinical outcomes by angiographic type of spontaneous coronary artery dissection**
R Mori Junco (Madrid,ES)
- 08:00 Clinical impact of CREDO-kyoto risk score on in-hospital bleeding in patients with acute coronary syndrome**
- 08:00 Bioabsorbable vascular scaffolds in routine practice: long-term results**
R Mori Junco (Madrid,ES)
- 08:00 Impact of COVID-19 pandemic on ST-elevation myocardial infarction: data from two portuguese centers**
L Oliveira (Atalhada,PT)
- 08:00 Aggressive hydration and contrast-induced acute kidney injury following primary angioplasty: a randomized controlled study**
- 08:00 Effects of rosuvastatin and metformin on resistin levels in subcutaneous, epicardial and perivascular adipose tissues of patients with ischemic heart disease**
Y Dyleva (Kemerovo,RU)
- 08:00 Hyperacute postprocedural high platelet reactivity; a novel predictor for in-hospital adverse events in acute coronary syndrome with prasugrel loading**
K Kuroda (Okayama,JP)
- 08:00 Different inflammatory markers reflect different platelet reactivities in percutaneous coronary intervention patients treated with clopidogrel: a large sample study from China**
J Li (Beijing,CN)
- 08:00 The prognostic value of the basal SYNTAX score I after early percutaneous coronary intervention using second generation drug eluting stents in patients with ST elevation myocardial infarction**
A Haq (Dallas,US)
- 08:00 Dual antiplatelet therapy de-escalation in acute coronary syndrome: a systematic review and network meta-analysis**
- 08:00 Prognostic impact of CTO lesion in NSTEMI-ACS patients: three-year outcome**

F Boukerche (Oran,DZ)

- 08:00 Characterization and quality of care indicators in patients with acute myocardial infarction without ST segment elevation**
F Dias Claudio (Evora,PT)
- 08:00 The role of cardiac magnetic resonance in MINOCA diagnosis**
F Dias Claudio (Evora,PT)
- 08:00 Iron deficiency - a factor in left ventricular ejection fraction depression post-myocardial infarction**
F Dias Claudio (Evora,PT)
- 08:00 GRACE score predicts systemic inflammation in patients with acute coronary syndrome**
JA Ortega-Hernandez (Df,MX)
- 08:00 Safety and efficacy of bivalirudin in diabetic acute coronary syndrome (ACS) patients undergoing percutaneous coronary intervention(PCI)**
A Mostofa (- ,BD)
- 08:00 Long-term outcome in patients with Takotsubo syndrome: a single-center study from a city in Austria**
E Pogran (Vienna,AT)
- 08:00 Prevalence and impact of metabolic syndrome in patients with multivessel coronary artery disease and acute coronary syndrome**
J Zhou (Beijing,CN)
- 08:00 Impact of lipoprotein(a) as a residual risk on long-term cardiovascular outcomes in patients with acute coronary syndrome treated with statin**
- 08:00 Prediction of acute total occlusion of the left main coronary artery by electrocardiogram**
- 08:00 On- vs off-hours primary percutaneous coronary intervention: a single-centre experience**
FG Mane (Braga,PT)
- 08:00 The impact of bifurcation lesion in infarct-related artery of NSTEMI-ACS patients**
F Boukerche (Oran,DZ)
- 08:00 A contemporary presentation of the incidence and management of spontaneous coronary artery dissection (SCAD) in New Zealand: an ANZACS-QI study**
R Mbizvo (- ,NZ)
- 08:00 Relationship between Lactobacillus and prognosis of acute myocardial infarction patients treated by percutaneous coronary intervention and its possible mechanism**
J Gao (Tianjin,CN)
- 08:00 Oncostatin M is associated with adverse left ventricular remodeling in patients with ST-segment elevation myocardial infarction**
A Gusakova (Tomsk,RU)
- 08:00 Impact of COVID-19 pandemic on a developing STEMI care system from a low-middle income country- a prospective observational study**
S elangovan (Puducherry,IN)

- 08:00** **What are the predictors of heart failure in patients admitted with acute coronary syndrome? - data from a large national registry.**
A Timoteo (Lisboa,PT)
- 08:00** **ABCA1, TCF7, NFATC1, PRKCZ and PDGFA DNA methylation as potential epigenetic-sensitive targets in acute coronary syndrome via network analysis**
T Infante (Salerno,IT)
- 08:00** **Statin induced myalgia on high intensity statin in patients with Acute Coronary Syndrome**
D Kumar (Karachi,PK)
- 08:00** **A practical method to treat no-reflow phenomenon using self-made perfusion balloon at a National heart institute. A Single center experience.**
- 08:00** **D-dimer as a potential novel thrombus biomarker for predict stent thrombosis in patients on dual antiplatelet therapy after percutaneous coronary intervention**
X Zhao (Beijing,CN)
- 08:00** **Long-term exposure to ambient air pollution portends a higher risk of coronary plaque vulnerability and instability in patients with acute coronary syndrome: an optical coherence tomography study.**
- 08:00** **Association of plasma interleukin-6 with infarct size, reperfusion injury and adverse remodeling after ST-elevation myocardial infarction**
- 08:00** **Plaque and remodeling markers in coronary thrombi**
J Nordeng (Royse,NO)
- 08:00** **Leuko-platelet index as an independent predictor of in-hospital events in patients with non-ST elevation acute coronary syndrome**
D Chirino (Buenos Aires,AR)
- 08:00** **Radioprotection during interventional cardiology procedures**
I Noval Morillas (San Fernando,ES)
- 08:00** **Rationale for CDR132L, an antisense inhibitor of miR-132, for a novel therapy for ventricular remodelling after myocardial infarction**
A Aimo (Pisa,IT)
- 08:00** **Overlapping effects of miR-21 inhibition and drugs for idiopathic pulmonary fibrosis in the post-myocardial infarction setting**
A Aimo (Pisa,IT)
- 08:00** **The evolution of management and outcomes of patients with myocardial injury during the COVID-19 pandemic**
B Case (Washington, Dc,US)
- 08:00** **Differences between takotsubo and the working diagnosis of myocardial infarction with non-obstructive coronary arteries.**
J Lopez-Pais (Santiago,ES)
- 08:00** **Mean platelet volume-to-lymphocyte ratio as a predictor of no-reflow phenomenon and in-hospital mortality following primary percutaneous coronary intervention in patients with STEMI**
H Willim (- ,ID)
- 08:00** **STEMI around-the-clock: how off-hours admissions impact door-to-balloon time and the long-term prognosis of ST-segment Elevation Myocardial Infarction.**

- 08:00 Plasma apoC-III levels predict coronary severity and cardiovascular risks in stable coronary artery disease patients with diabetes or pre-diabetes: a prospective cohort study**
J Peng (Beijing,CN)
- 08:00 Clopidogrel resistance and P2Y12 receptor gene polymorphisms in patients with NSTEMI**
D Shorikova (Chernivtsy,UA)
- 08:00 Use of biomedical photonics for in vivo and in vitro assessment of haemostasis and microcirculation in patients on antithrombotic therapy**
- 08:00 Predictive value of GRACE score combined with BNP and glycosylated hemoglobin for in-hospital cardiovascular events in patients with acute coronary syndrome after percutaneous coronary intervention**
X Zhao (Beijing,CN)
- 08:00 Frequency and outcome of acute coronary syndrome during the Covid-19 pandemic**
RA Mousavi (Vienna,AT)
- 08:00 Association of quality indicators for acute myocardial infarction and mortality: feasibility and validation study using linked nationwide registry data**
S Aktaa (Leeds,GB)
- 08:00 Post-procedure anticoagulation in patients with acute ST-segment elevation myocardial infarction undergoing primary percutaneous coronary intervention**
Y Yan (Beijing,CN)
- 08:00 Adherence to guideline-recommended care following acute myocardial infarction: impact on clinical outcomes at 90 days and 1 year**
- 08:00 Improving smoking cessation after myocardial infarction by systematically implementing evidence-based treatment methods: a prospective observational cohort study**
M Leosdottir (Malmo,SE)
- 08:00 Clinical burden of MACE in patients with multivessel disease during the early period following acute myocardial infarction**
- 08:00 The total amount of CRP within the first 72 h after STEMI is crucial for the outcome**
- 08:00 Hospital readmissions and economic burden associated with multivessel disease in the early period following acute myocardial infarction**
- 08:00 The differential diagnostic value of selected cardiovascular biomarkers in Takotsubo cardiomyopathy**
- 08:00 Prognostic impact of renal function progression in patients with STEMI undergoing primary percutaneous coronary intervention: analysis of ten years all comers registry.**
P Tasende (Santiago De Compostela,ES)

- 08:00** **Instantaneous wave-free ratio for the assessment of nonculprit lesions in patients with acute coronary syndrome**
R Gonzalez-Manzanares (Cordoba,ES)
- 08:00** **Coronary artery disease ameliorates extracellular vesicle lncRNA PUNISHER regulates angiogenic response and endothelial cells function via NFkB-dependent mechanism**
- 08:00** **Predictive values of the CatLet angiographic scoring system for short-term cardiac mortality in patients with acute myocardial infarction after primary percutaneous coronary intervention**
C Zhang (- ,CN)
- 08:00** **Low ALT levels are associated with poor outcomes in acute coronary syndrome patients admitted to the intensive cardiac care unit**
- 08:00** **The incidence of muscle tissue damage during therapy with atorvastatin in patients after STEMI**
L Salyamova (Penza,RU)
- 08:00** **The state of the left ventricular-arterial coupling depending on the left ventricular ejection fraction in patients with acute myocardial infarction**
L Salyamova (Penza,RU)
- 08:00** **The risk of admission acute heart failure in ST-elevation myocardial infarction patients and air pollution with PM2.5**
D Suran (Maribor,SI)
- 08:00** **Mortality and major cardiovascular events among patients with multiple myeloma: analysis from a nationwide French medical information database**
- 08:00** **Coronary lithoplasty of culprit calcified coronary lesion in STEMI**
H Cubero-Gallego (Barcelona,ES)
- 08:00** **Association between serum osteoprotegerin levels and severity of coronary artery disease in patients with acute myocardial infarction.**
M Zeller (Dijon Cedex,FR)
- 08:00** **STEMI patients in the first and second wave of covid-19 pandemic in Slovenia**
J Golub (Kidricevo,SI)
- 08:00** **Relationship of PRECISE-DAPT and DAPT scores with mortality in patients admitted with acute coronary syndrome who undergo coronary stent implantation**
C Alak (Izmir,TR)
- 08:00** **High levels of lipoprotein(a) are associated with the severity of coronary disease in patients with acute myocardial infarction. Data from the RICO survey**
M Farnier (Fixin,FR)
- 08:00** **Differences in biomarker concentrations and prediction of long-term outcome in patients with ST-elevation and non-ST-elevation myocardial infarction**
M Hjort (Uppsala,SE)
- 08:00** **Effect of upstream doxycycline during primary percutaneous coronary intervention (PPCI) for ST-elevation myocardial infarction (STEMI) on infarct size and left ventricular (LV) remodelling**
- 08:00** **Efficacy and safety of colchicine after myocardial infarction: a systematic review**

- 08:00 **Prognostic factors in patients with acute myocardial infarction underwent extracorporeal membrane oxygenation in hospital or out-of-hospital cardiac arrest**
R Morimoto (Osaka,JP)
- 08:00 **Prediction of endogenous thrombolytic activity in patients with coronary artery disease**
J Suh (Seongnam,KR)
- 08:00 **Regional wall motion abnormalities predict culprit lesions in patients presenting with acute chest pain**
A Roggel (Essen,DE)
- 08:00 **Adverse events in acute myocardial infarction patients: the DAPT Score for risk stratification in an Asian population**
S Nakada (Singapore,SG)
- 08:00 **Association of epicardial obesity with structural and functional parameters of post-infarction myocardium in patients after coronary stenting**
A Vorobev (Ulyanovsk,RU)
- 08:00 **Abnormal hb-levels associate differently with type 1 and type 2 myocardial infarction in patients visiting the emergency department with chest pain.**
S Forsell (- ,SE)
- 08:00 **Long-term survival after a pharmacoinvasive strategy in patients with ST-elevation myocardial infarction and long distances to primary percutaneous coronary intervention - a prospective cohort study**
- 08:00 **Predicting acute kidney injury and future cardiac events using urinary liver-type fatty acid-binding protein in patients with acute myocardial infarction**
K Kojima (Tokyo,JP)
- 08:00 **The age-specific prognostic impact of the platelet-to-lymphocyte ratio on long-term outcome after acute coronary syndrome**
N Kazem (Vienna,AT)
- 08:00 **Association between off-hours admission with acute myocardial infarction and in-hospital mortality**
J Song (- ,CN)
- 08:00 **Sex and age differences in patients with acute coronary syndrome and non-obstructive coronary arteries: presentation and outcome**
MGL Williams (Bristol,GB)
- 08:00 **The risk-treatment paradox in acute coronary syndrome patients: Insights from the FORCE-ACS registry**
J Azzahafi (- ,NL)
- 08:00 **Coronary artery disease ameliorates extracellular vesicle lncRNA PUNISHER regulates angiogenic response and endothelial cells function via NFkB-dependent mechanism**
Dr Hosen (Bonn,DE)
- 08:00 **Frequency and predictors of no-reflow phenomenon in patients with COVID-19 presenting with st-segment elevation myocardial infarction**
- 08:00 **The role of IL-6 receptor trans-signalling in ischemia-reperfusion injury, infarct**

healing and future adverse events in patients with ST-Elevation Myocardial Infarction

I Tollefsen (Oslo,NO)

- 08:00 Prognostic benefit from an early invasive strategy in patients with non ST elevation acute coronary syndrome (NSTEMACS): evaluation of the new risk stratification in the NSTEMACS European guidelines**
J Martinon-Martinez (Santiago De Compostela,ES)
- 08:00 Correlation of chest ct severity score with D DIMER levels in patients with covid 19**
A V Inamdar (Omaha,IN)
- 08:00 Can we simplify or improve long-term risk stratification for patients with ST-segment elevation myocardial infarction undergoing primary intervention?**
JP Dias Ferreira Reis (Lisboa,PT)
- 08:00 The prevalence and characteristics of patients with ST-elevation myocardial infarction during the first two months of the COVID-19 pandemics**
- 08:00 Complement activation is associated with neutrophil extracellular traps and all-cause mortality in ST-elevation myocardial infarction**
K Kluge (Oslo,NO)
- 08:00 Predictors and a novel risk score of statin non-adherence after hospitalisation for an acute coronary syndrome**
B Liao (Auckland,NZ)
- 08:00 The impact of frailty on the management and outcome of ST-elevation myocardial infarction in older patients**
MRJ Bennett (Chester-Le-Street,GB)
- 08:00 A pooled multi-national validation study of a machine learning, high-sensitivity troponin-based multi-proteomic model to predict the presence of obstructive coronary artery disease**
JT Neumann (Hamburg,DE)
- 08:00 HSP90 pathway in intermediate mononuclear cells causes plaque erosion via induction of neutrophil hyper-responsiveness**
- 08:00 The ACEF score improved the predictive ability of the CatLet angiographic scoring system for patients with AMI undergoing primary percutaneous intervention(PCI): a follow-up study of median 4.3-years**
HX Wang (Gusu,CN)
- 08:00 The impact of the COVID-19 pandemic on the management and outcomes of STEMI patients in Switzerland**
T Mahendiran (Lausanne,CH)
- 08:00 5-hydroxymethylcytosine profiles in circulating cell-free DNA as candidate diagnostic and predictive biomarkers for coronary artery disease**
J Xu (Beijing,CN)
- 08:00 Post-angioplasty myocardial blush grade for long term prognostication in acute coronary syndrome: a systematic review and meta-analysis**
P Vera Cruz (Iloilo,PH)
- 08:00 The bimodal rise and fall acute coronary syndromes curves paralleling COVID-19 outbreaks**
D Trabatttoni (Monza,IT)

- 08:00** **Residual SYNTAX score in relation to culprit-plaque characteristics and cardiovascular risk in acute myocardial infarction:an optical coherence tomography study**
Y Wang (Beijing,CN)
- 08:00** **Prognostic value of PCSK9 Levels in Non-ST elevation myocardial infarction patients undergoing percutaneous coronary intervention**
Y Liu (Tianjin,CN)
- 08:00** **Impact of impaired renal function on kinetics of high-sensitive troponin I (hs-cTnI) following cardiac surgery**
H Omran (Bad Oeynhausen,DE)
- 08:00** **Ticagrelor or prasugrel in patients with acute coronary syndrome in relation to glomerular filtration rate**
- 08:00** **Acute circumflex coronary artery occlusion; dilemma in diagnosis and management**
J Komatsu (Kochi,JP)
- 08:00** **Clinical and electrocardiographic differences between apical and midventricular stress cardiomyopathy**
L Esteban-Lucia (Madrid,ES)
- 08:00** **A randomized controlled trial of an eight-week cardiac rehabilitation home verse hospital exercise programme for post coronary cardiac bypass patients**
- 08:00** **ECG markers of atrial abnormalities are not associated with new onset atrial fibrillation in patients with acute ST-segment elevation myocardial infarction.**
M Baturova (St Petersburg,RU)
- 08:00** **CMR analysis of the cardioprotective effects of chronic statin therapy prior to first STEMI: a propensity score analysis**
- 08:00** **Association between plasma big endothelin-1 level and the severity of coronary artery disease in patients with non-ST segment-elevated myocardial infarction**
- 08:00** **Acute myocardial infarction in the covid-19 era: incidence, clinical characteristics and in-hospital outcomes - a multicenter registry**
A Fardman (Ramat Gan,IL)
- 08:00** **Incremental predictive value of adding the CHA2DS2-VASc score to the GRACE score for in-hospital mortality in patients with ST-segment elevation myocardial infarction**
- 08:00** **Myocardial infarction with non obstructive coronary arteries (MINOCA) according to definitions of 2020 ESC Guidelines: clinical profile and prognosis.**
D Nieto Ibanez (Logrono,ES)
- 08:00** **Achievement of guideline recommended LDL-C goals in patients with acute myocardial infarction (AMI) in Switzerland**
- 08:00** **ACE Insertion/Deletion gene polymorphism associations in STEMI Patients**
S Kozhukhov (Kiev,UA)

- 08:00** **Prevention of erosive-ulcerative lesions of the gastrointestinal tract with gastroprotector rebamipide in patients with ischemic heart disease against the background of dual antiplatelet therapy**
- 08:00** **Colchicine in patients with acute myocardial infarction: an updated meta-analysis of randomized controlled trials**
- 08:00** **The association between international normalized-ratio and long-term mortality in patients with coronary artery disease: a large cohort study**
- 08:00** **Prognostic value of growth differentiation factor-15 in patients with acute myocardial infarction.**
A Sabirzyanova (- ,RU)
- 08:00** **External validation of the PRECISE-DAPT score in an Asian cohort of patients with acute coronary syndrome post-percutaneous coronary intervention**
R Fong (- ,SG)
- 08:00** **Assessment of the ESC quality indicators in patients with acute myocardial infarction: a systematic review**
- 08:00** **Coronary artery disease association with serum concentration and genetic variation of MMP-9 in Ukrainian population**
O Pogorielova (Sumy,UA)
- 08:00** **Evaluation of different late left ventricular remodeling definitions for predicting long-term outcomes in acute myocardial infarction patients undergoing percutaneous coronary intervention**
- 08:00** **Incremental prognostic value of worsening renal function parameters in addition to the GRACE score in patients with acute coronary syndrome**
J Presume (Torres Novas,PT)
- 08:00** **Prognostic value of anemia in patients with ST-elevation myocardial infarction**
R Costa (Porto,PT)
- 08:00** **Long-term trends in treatment and outcomes of patients with diabetes and acute coronary syndromes: insights from the nationwide AMIS plus registry**
B Stahlh (Zurich,CH)
- 08:00** **Incidence trends and long-term outcomes of juvenile myocardial infarction: does gender matter?**
- 08:00** **Long-term validation of the GRACE and PRECISE-DAPT scores in patients with NON-ST elevation acute coronary syndrome.**
F Garcia-Rodeja Arias (Lugo,ES)
- 08:00** **Prevalence, clinical characteristics, and in-hospital mortality of patients with angiographic acute total thrombotic occlusion presenting as non st-segment elevation myocardial infarction**
E Toledo Aleman (Mexico City,MX)
- 08:00** **Covid-19 pandemic and admission rates for and management of acute coronary syndromes in Israel**
E Asher (Jerusalem,IL)

- 08:00** **The gender differences in the implementation and maintenance of a structured-enhanced education and follow-up program in primary prevention for coronary artery disease**
O Soran (Pittsburgh,US)
- 08:00** **Coronary slow-flow phenomenon in takotsubo syndrome: the prevalence, clinical determinants and long-term prognostic impact**
K Stepien (Krasnik,PL)
- 08:00** **Impact of COVID-19 lockdown on the procedural and intra-hospital outcome of STEMI patients**
N Schacher (Oberreichenbach,DE)
- 08:00** **Prognostic role of diagnostic criteria of acute myocardial infarction**
- 08:00** **Observational study of Covid -19 patients presenting with acute coronary syndrome at a tertiary care center in india**
K Makkar (- ,IN)
- 08:00** **Prognostic impact of LVEF recovery in patients with STEMI undergoing primary percutaneous coronary intervention: analysis of an eleven-year all-comers registry**
- 08:00** **Location and impact of the infarct-related artery in acute coronary syndrome: insight from the Swiss SPUM- ACS cohort**
- 08:00** **Pharmacodynamic evaluation of the platelet antiaggregant effect of swallowed Ticagrelor versus chewed Ticagrelor in patients with acute coronary syndrome**
CF Barrera-Ramirez (Saltillo,MX)
- 08:00** **The incidence, time distribution and prognostic value of monomorphic ventricular tachycardia in ST-elevation myocardial infarction: the prespecified analysis of VALIDATE SWEADHEART trial**
MM Demidova (St-Petersburg,RU)
- 08:00** **Temporal trends in adverse ischemic events, bleedings, kidney injury and overall mortality for patients with ST-elevation myocardial infarctions and advanced kidney disease**
- 08:00** **Nomogram to identify short-term mortality of COVID-19 based on myocardial damage**
- 08:00** **Association of bleeding events and acute kidney failure in patients with ST-Elevation myocardial infarction undergoing emergency percutaneous coronary intervention**
- 08:00** **Chest pain characteristics and their ability to predict NSTEMI according to gender and age in patients presenting with suspected ACS**
- 08:00** **Incidence and one year outcome of periprocedural myocardial infarction following cardiac surgery: are the universal definition and SCAI criteria fit for purpose?**
J Hinton (Southampton,GB)
- 08:00** **The relationship between high-sensitivity troponin taken on admission to critical care, regardless of whether there was a clinical indication for testing, and one**

year mortality

J Hinton (Southampton,GB)

- 08:00 Prehospital ECG in patients with acute myocardial infarction during the Covid-19 pandemic**
- 08:00 Increased symmetric dimethyl-arginine is a predictor factor of decreased platelet reactivity and increased bleeding risk in patients with acute coronary syndrome**
- 08:00 High concentrations of plasma trimethylamine-n-oxide is associated with long-term cardiovascular mortality in patients with acute coronary syndrome**
- 08:00 Acute heart failure: a mechanism underscoring sex differences in outcomes following acute coronary syndromes**
E Cenko (Bologna,IT)
- 08:00 Diagnostic validation of a high-sensitivity troponin I assay and its use in a guideline-consistent rapid diagnostic protocol**
- 08:00 Comparison of risk factors for coronary event in people with unattributed and non-coronary chest pain: an electronic health record cohort study**
T Rathod-Mistry (- ,GB)
- 08:00 Indirect effects of COVID-19 Pandemic in ST-segment elevation myocardial infarction: insights from a multicentric national survey**
H Pereira (Almada,PT)
- 08:00 Systemic immune-inflammation index predicts in-hospital and long-term outcomes in patients with ST Segment Elevation Myocardial Infarction**
- 08:00 Circulating endothelial progenitor cells as predictors of long-term cardiovascular mortality after myocardial infarction: which definition should we use?**
D De Almeida Fernandes (Coimbra,PT)
- 08:00 Residual ST-segment elevation at pre-discharge ECG after STEMI: association with long-term prognosis and structural consequences at 6-month CMR**
- 08:00 Prognostic significance of novel serum biomarkers in patients with acute coronary syndrome**
E Karagiannidis (Thessaloniki,GR)
- 08:00 Increased performance of high sensitivity (cTnI-Hs) compared to ultra-sensitivity troponin I (cTnI-Us)**
- 08:00 STEMI treatment in remote areas - challenges of the only interventional angioplasty center located in an archipelago**
- 08:00 Treatment delay and clinical outcomes in patients with ST-elevation myocardial infarction during the COVID-19 pandemic**
T Tokarek (Krakow,PL)
- 08:00 Guided and unguided de-escalation from potent P2Y12 inhibitors among patients with ACS: a meta-analysis**

- 08:00** **The relationship between non-alcoholic fatty liver disease and acute coronary syndrome severity: is non-alcoholic fatty liver disease a risk marker of coronary atherosclerotic disease?**
MC Soares Sturzeneker (Ponta Grossa,BR)
- 08:00** **Effect of colchicine on reducing c-reactive protein levels among patients with acute coronary syndrome: a meta-analysis**
G Vistal (Taguig,PH)
- 08:00** **Outcomes of patients with high bleeding risks characteristics presenting with acute coronary syndrome undergoing percutaneous coronary intervention**
A Fu (Ottawa,CA)
- 08:00** **Predictors of patient and system delay for primary percutaneous coronary intervention**
A Candjondjo (Setubal,PT)
- 08:00** **Regional and temporal variations in the incidence of spontaneous coronary artery dissection: insights from the national inpatient sample**
- 08:00** **Implications of left ventricular function on short-term outcomes in COVID-19 patients with myocardial injury**
G Medranda (Washington, Dc,US)
- 08:00** **Variations in spontaneous coronary artery dissection diagnosis based upon hospital status: insights from the national in-patient sample**
- 08:00** **Odds of inpatient hospital mortality in spontaneous coronary artery dissection (SCAD)**
- 08:00** **Risk prediction of major adverse cardiac events by high sensitivity troponin is modified by comorbidities**
- 08:00** **Odds of inpatient hospital mortality in takotsubo cardiomyopathy (TCM): insights from the national inpatient sample from 2015 to 2017**
- 08:00** **Long-term outcome of patients with myocardial infraction with nonobstructive coronary arteries**
- 08:00** **Colchicine and quality of life in patients with acute coronary syndromes: results from the COPS randomized trial**
L Dawson (Melbourne,AU)
- 08:00** **Differential impact of renal function on the diagnostic performance of resting full-cycle ratio as non-hyperemic physiological assessment**
T Nawano (Nagakute,JP)
- 08:00** **A comparison of long-term clinical outcomes between PCI and medical therapy in patients with chronic total occlusion in non-Infarct-related arteries after AMI PCI.**
Q Qin (Shanghai,CN)
- 08:00** **Serum cholesterol efflux capacity is associated with coronary plaque progression in patients with coronary heart disease**

- 08:00 Accuracy of estimating left ventricular ejection fraction in clinical routine. A SWEDEHEART registry validation study.**
J Lenell (Stockholm,SE)
- 08:00 Temporal changes of biomarkers in myocardial infarction patients with non-obstructive compared to obstructive coronary arteries**
M Hjort (Uppsala,SE)
- 08:00 Immature platelets in patients with Covid-19: association with disease severity**
E Harari (Kfar Haoranim,IL)
- 08:00 The role of coronary collateral circulation in patients presenting with acute left main coronary artery occlusion**
J Calvao (Porto,PT)
- 08:00 Clinical characteristics and outcomes of myocardial infarction with nonobstructive coronary arteries**
CJ Wong (Singapore,SG)
- 08:00 Comparison between pre-hospital and in-hospital ST-Elevation Myocardial Infarction (STEMI) from 2003-2016 in New South Wales, Australia: a population-linkage data analysis**
S Ratwatte (Epping,AU)
- 08:00 Platelet reactivity and immature platelets in patients with Covid-19**
A Cohen (Nuernberg,DE)
- 08:00 Management of bifurcation culprit lesion in the setting of anterior ST elevation myocardial infarction**
A Assal (Alexandria,EG)
- 08:00 The association of myocardial injury during chronic total occlusion percutaneous coronary intervention with lesion complexity and treatment strategy**
A Oksnes (Blomsterdalen,NO)
- 08:00 Systemic immune-inflammation index predicts major adverse cardiovascular events in patients with ST-elevation myocardial infarction**
A Denegri (Modena,IT)
- 08:00 Adverse in-hospital prognosis in patients with non-ST segment elevation myocardial infarction with right bundle branch block - red flag ECG and sicker patients**
M Saraiva (Santarem,PT)
- 08:00 Impact of atrial fibrillation on soluble fms-like tyrosine kinase-1 and cardiovascular events in patients with suspected or known coronary artery disease: The EXCEED-J Study**
H Wada (Kyoto,JP)
- 08:00 Impact of smoking habit on baseline and on-treatment platelet reactivity in STEMI patients treated with 3rd generation P2Y12**
ME Canonico (Napoli,IT)
- 08:00 The effect of early invasive strategy on mortality outcome in patients with chronic kidney disease presenting with non-ST segment elevation myocardial infarction**
A Sharon (Tel Aviv,IL)
- 08:00 Sex-specific differences in total ischemic time coincide with similar cardiovascular outcome in patients with acute coronary syndrome: a Swiss multicentre cohort study**

- 08:00 Inflammation-frailty linkage and its long-term prognostic impact in patients with acute coronary syndrome**
R Satou (Yokohama,JP)
- 08:00 Mortality risk in cardiogenic shock depending on aetiology in a Mediterranean cohort. Prognostic accuracy of CardShock vs IABP Score, the Shock CAT Study**
C Garcia-Garcia (El Masnou,ES)
- 08:00 Superiority of cardiac magnetic resonance derived left-ventricular ejection fraction in the identification of true acute myocardial infarction among MINOCA patients**
M Mantzouranis (Athens,GR)
- 08:00 Limited sex-specific performance of the GRACE 2.0 score to predict reinfarction or death in NSTEMI patients during pro-inflammatory states**
- 08:00 Impact of blood pressure on the extent of microvascular damage in the setting of reperfusion injury in STEMI assessed with magnetic resonance imaging**
B Igual Munoz (Godella,ES)
- 08:00 Mortality risk in cardiogenic shock: head to head comparison CardShock vs IABP Score in a Mediterranean cohort, the Shock CAT Study**
C Garcia-Garcia (El Masnou,ES)
- 08:00 Evaluation of management strategies in patients with coronary ectasia: a retrospective cohort study.**
- 08:00 Outcomes of patients admitted with high-sensitive cardiac troponin t levels meeting the new rule out criteria for myocardial infarction**
B Cohen (Petah Tikva,IL)
- 08:00 The determinants and significance of intraluminal stent protrusion in patients with acute myocardial infarction**
J Zalewski (Krakow,PL)
- 08:00 Left ventricular mass index unveils differences in sympathetic nervous system activity between patients with MINOCA and Takotsubo syndrome**
M Mantzouranis (Athens,GR)
- 08:00 Different COVID19 pandemic phases & STEMI: experience from an italian hub centre**
G Tumminello (Asti,IT)
- 08:00 Non-ST elevation myocardial infarction in patients with previous CABG: what is the best treatment option?**
L Oliveira (Atalhada,PT)
- 08:00 Comparison of peripheral artery plaque characteristics between ACS patients with plaque rupture and plaque erosion in culprit coronary artery: an OCT and ultrasound study**
Z Weng (Harbin,CN)
- 08:00 Diagnostic and prognostic role of peak troponin T in patients with acute coronary syndromes and non-obstructive coronary arteries**
MGL Williams (Bristol,GB)
- 08:00 Propionate and butyrate in association with the presence of coronary artery disease in a large cross-sectional study**

08:00	Body mass index and efficacy and safety of ticagrelor versus prasugrel in patients with acute coronary syndromes	
08:00	Takotsubo syndrome: a way to reach a straightforward diagnosis A Bonanni (Rome,IT)	
08:00	Outcomes of patients admitted with limit of blank high-sensitive cardiac troponin t levels versus those with levels under the limit of detection B Cohen (Petah Tikva,IL)	
08:00	Is it justified to remove the intermediate risk group in the latest European guidelines for NSTEMI? T Gonzalez Ferrero (Lugo,ES)	
08:00	Efficacy and safety of ticagrelor versus prasugrel in smokers and nonsmokers with acute coronary syndromes	
08:00	The evolving characteristics and outcomes of acute myocardial infarction in Hong Kong, 1999 - 2018 H Li (- ,HK)	
08:00	Comparative efficacy of fibrinolytics and glycoprotein IIb/IIIa inhibitors in preventing coronary no-reflow: a network meta-analysis G Klappacher (Vienna,AT)	
08:00	Improving cardiovascular risk prediction with plasma proteomics in secondary prevention	Withdrawn
08:00	Incidence and course of acute coronary syndromes cases following first wave of covid-19 pandemic	
08:00	Determination of physiological cardiac myosin-binding protein levels (cMyC) in healthy populations K Inoue (Tokyo,JP)	
08:00	Physiological circadian rhythm of cardiac myosin-binding protein C (cMyC) and cardiac troponin B Alaour (Winchester,GB)	
08:00	Relative impact of acute heart failure and acute kidney injury on short- and long-term prognosis of patients with STEMI treated with primary PCI	
08:00	Frequency and predictors of thin-cap fibroatheroma progression: a comprehensive and dynamic in-vivo OCT study	
08:00	Trends and sex differences in characteristics and outcomes in myocardial infarction: a 20-year analysis H Li (- ,HK)	
08:00	Long-term prognostic implications of PCI in ACS patients without ischemia on the basis of computational pressure-flow dynamics derived fractional flow reserve LY Lam (Hong Kong,HK)	

- 08:00** **Online educational module for paramedics on prehospital 15-lead ECG recording - Results of the educational part of the "Finding LCX AMI With posterior ECG leads" (FLAWLESS) trial**
- 08:00** **Prognostic value of per-vessel treatment adherence in stable coronary artery disease based on novel computational pressure-flow dynamics derived fractional flow reserve**
CKL Leung (- ,HK)
- 08:00** **In-hospital and one-year outcomes in spontaneous coronary artery dissection. Insights from the Spanish registry on SCAD (SR-SCAD)**
M Garcia Guimaraes (Barcelona,ES)
- 08:00** **Assessing the risks of ischemic vs bleeding events of long-term antithrombotic therapy among patients with 2017 esc dapt guideline stent-driven high ischemic risk definition following PCI**
- 08:00** **Two-year Plaque Level Outcomes Involving the Left Anterior Descending Artery: insights from the Lipid-Rich Plaque Study**
K Kuku (- ,US)
- 08:00** **Identification of potential therapeutic targets for coronary artery disease based on protein array and Mendelian Randomization analysis**
XD Zhuang (Guangzhou,CN)
- 08:00** **Racial disparities in the use of mechanical circulatory support devices in cardiogenic shock.**
- 08:00** **Trends in major bleeding events in patients with acute coronary syndrome.**
A Cordero (Alicante,ES)
- 08:00** **Prognostic implication of different definitions of periprocedural reinfarction after left main PCI in patients with acute myocardial infarction**
- 08:00** **J-shaped relationship between admission diastolic blood pressure and 2-year cardiovascular mortality in elderly patients with acute coronary syndrome**
C Jiang (Beijing,CN)
- 08:00** **The clinical outcomes between STEMI and NSTEMI patients in nationwide registry database**

Learning Objectives:

Categories:

Acute Cardiac Care ePosters

Session Number: 417

Chairpersons:

- 08:00 Massive open online learning in basic life support and automated external defibrillation: an efficient way to improve confidence and readiness of lay people to provide help**
A Birkun (- ,RU)
- 08:00 Cumulative international evidence on prevalence of community cardiopulmonary resuscitation training: an analysis of the population-based surveys from the past twenty years**
A Birkun (- ,RU)
- 08:00 Hypoalbuminemia as a prognostic factor in patients admitted to a tertiary care intensive coronary care unit**
Y Rashi (Jerusalem,IL)
- 08:00 Barriers associated with emergency medical service activation in italian patients with ST-segment elevation acute coronary syndromes**
E Baldi (Pavia,IT)
- 08:00 Long-term prognostic factors of coronary artery disease patients after out-of-hospital cardiac arrest**
G Nitta (Saitama,JP)
- 08:00 Effects of covid_19 pandemic on cardiac surgery and practice. Did we hit the mark: strategy or casualty ?**
A Minotti (Rapallo,IT)
- 08:00 Cardiac output monitoring using transthoracic echocardiography in children after cardiac surgery-an observational study of feasibility and concordance with transpulmonary thermodilution**
S Guha Niyogi (Chandigarh,IN)
- 08:00 AMI causing cardiogenic shock in patients with severely depressed left ventricular function**
R Caldeira da Rocha (Setubal,PT)
- 08:00 Performance of risk scores for coronary artery disease in patients with chest pain in urgent primary care**
A Manten (Amsterdam,NL)
- 08:00 Arrhythmic storm in patients with and without an implantable cardioverter defibrillator**
- 08:00 Routine versus clinically indicated use of chest X-rays in patients presenting with ST-elevation myocardial infarction**
- 08:00 Cardiovascular disease in an intensive care unit: patterns of an often fatal omen**
- 08:00 Evaluation of adverse outcomes in patients with Troponinemia without significant coronary artery disease; a proposal application of the ACTION-ICU Score.**
C Idrovo Turbay (Barranquilla,CO)
- 08:00 Training prevalence, knowledge and attitudes towards cardiopulmonary resuscitation: a survey amongst 5,921 preschool and school teachers**
A Birkun (- ,RU)
- 08:00 Percutaneous coronary intervention on combined VA-ECMO and IMPELLA (ECPELLA) support may reduce myocardial damage in cardiogenic shock patients with STEMI who required mechanical circulatory support**
T Unoki (Kumamoto,JP)

- 08:00 Wellbeing, emotional response and stress among lay responders dispatched to suspected out-of-hospital cardiac arrests**
- 08:00 Predictive model for in-hospital mortality following cardiogenic shock**
F Garcia-Rodeja Arias (Lugo,ES)
- 08:00 Serum anion gap predicts in-hospital and 1-year mortality in cardiac care unit patients**
Mr Nilmoje (Bangkok,TH)
- 08:00 Critical COVID-19 rarely associated with left ventricular systolic impairment**
E Nakou (London,GB)
- 08:00 Mobile versus fixed automated external defibrillators (AED deployment in a geographically dispersed population: analysis of the girona territori cardioprotegit project.**
P Llongueras Espi (Terrassa,ES)
- 08:00 How did the first pandemic COVID wave affect acute myocardial infarction hospital assistance?**
A Pacheco (Aveiro,PT)
- 08:00 High sensitivity troponin as a 60-day mortality marker in patients with COVID-19 in intensive care at a latin american hospital**
J Sprockel (Bogota,CO)
- 08:00 Effectiveness of chest compressions skill training in the prone position: comparison of two methods**
E Peixoto (Sao Paulo,BR)
- 08:00 Impact of admitting diagnosis on survival from in-hospital cardiac arrest**
R Sawhney (- ,US)
- 08:00 Gender based outcome of IABP implantation in patients with acute coronary syndrome and cardiogenic shock: a national inpatient sample database analysis**
- 08:00 Long-term mortality in patients with myocardial injury after non-cardiac surgery**
BFO Gomes (Rio De Janeiro,BR)
- 08:00 Impact of high cardiovascular risk on hospital mortality in patients admitted to intensive care by COVID-19**
BFO Gomes (Rio De Janeiro,BR)
- 08:00 Association between lowering heart rate during IMPELLA support and favorable short-term outcome in patients with cardiogenic shock**
K Maemura (Sagamihara-Shi,JP)
- 08:00 Association between mean arterial pressure and neurological outcome in survivors of a cardiac arrest undergoing targeted temperature management**
I Vasserot (Madrid,ES)
- 08:00 Therapeutic hypothermia after resuscitated cardiac arrest: benefits in survival and neurological outcome.**
B Olivares Martinez (Sevilla,ES)
- 08:00 Frailty assessment in an unselected population admitted to an intensive cardiac care unit**
A Campanile (Salerno,IT)

- 08:00** **Cardiogenic shock in patients presenting with acute left main coronary artery occlusion**
- 08:00** **Clinical significance of early echocardiography after out-of-hospital cardiac arrest on arrival to a heart attack centre**
- 08:00** **Complete Revascularisation is associated with Improved Survival after Out of Hospital Cardiac Arrest**
- 08:00** **First Asian validation of ORBI score in predicting in-hospital cardiogenic shock in patients with ST-segment elevation myocardial infarction treated by primary percutaneous coronary intervention**
MP Putra (Mataram,ID)

Learning Objectives:

Categories:

Symposium	Saturday, 28 August 2021	09:30 - 10:15	Interventional Cardiology & CV Surgery, Stroke, PAD, Aortic Disease - Channel
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The aorta and sudden cardiac death: from tip to toe

Session Number: 420

Chairpersons: M Czerny (Freiburg, DE)

- 09:30 Early recognition of acute aortic syndromes: diagnostic pitfalls and traps.**
IM Lang (Vienna,AT)
- 09:41 Acute aortic syndromes: critical pathways from the emergency room to the operating room.**
K Tsagakis (Essen,DE)
- 09:52 'Watchful waiting' or 'waiting for disaster': treatment dilemmas in acute aortic dissection.**
J Dumfarth (Innsbruck,AT)
- 10:03 The aorta and sudden cardiac death: from tip to toe – discussion.**
D Pacini (Bologna,IT)

Learning Objectives:

Categories: Live Chat, Spotlight of the Congress

Symposium	Sunday, 29 August 2021	10:30 - 11:15	Interventional Cardiology & CV Surgery, Stroke, PAD, Aortic Disease - Channel
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Genetic aortic diseases: a deep dive on clinical presentation and management

Session Number: 421

Chairpersons: G Jondeau (Paris, FR)

- 10:30 Burden of genetic aortic diseases and screening strategies.**
J De Backer (Ghent,BE)
- 10:41 Connective tissue disorders of the aorta: a guide for appropriate diagnosis and referral.**
G Pepe (Firenze,IT)
- 10:52 Marfan's syndrome, Loeys-Dietz syndrome and other aortopathies: how to prevent sudden death.**
B Loeys (Antwerpen,BE)
- 11:03 Genetic aortic diseases: a deep dive on clinical presentation and management – discussion.**
D Cameron (Baltimore,US)

Learning Objectives:

Categories: Live Chat

A practical approach to the patient with claudication

Session Number: 422

Chairpersons: L Mazzolai (Lausanne, CH)

- 09:30 A practical approach to the patient with claudication: case presentation.**
C Espinola-Klein (Mainz,DE)
- 09:41 A practical approach to the patient with claudication: how I would treat.**
M De Carlo (Pisa,IT)
- 09:52 A practical approach to the patient with claudication: how I did treat.**
C Espinola-Klein (Mainz,DE)
- 10:03 A practical approach to the patient with claudication – discussion.**
S Debus (Hamburg,DE)

Learning Objectives:

Categories: Live Chat

Decision dilemmas in venous thromboembolism**Session Number: 423**Chairpersons: O Schlager (Vienna, AT)

- 09:30 Venous thromboembolism in pregnancy.**
A Bura Riviere (Toulouse Cedex 9,FR)
- 09:41 Venous thromboembolism in cancer patients.**
C Becattini (Perugia,IT)
- 09:52 Venous thromboembolism in high bleeding risk patients.**
L Mazzolai (Lausanne,CH)
- 10:03 Decision dilemmas in venous thromboembolism – discussion.**
B Rocca (Rome,IT)

Learning Objectives:

Categories: Live Chat

Great Debate: antithrombotic therapeutic dilemmas in PAD – dual antiplatelet or dual-pathway antithrombotic therapy?**Session Number: 424**Chairpersons: V Aboyans (Limoges, FR) - D Bhatt (Newton, US)**08:00 After peripheral endovascular therapy, DAPT remains the preferred option over dual-pathway antithrombotic therapy: pro.**

C Heiss (Guildford,GB)

08:15 After peripheral endovascular therapy, DAPT remains the preferred option over dual-pathway antithrombotic therapy: con.

M Brodmann (Graz,AT)

08:30 Great Debate: antithrombotic therapeutic dilemmas in PAD – dual antiplatelet or dual-pathway antithrombotic therapy? – discussion.

I Baumgartner (Bern,CH)

Learning Objectives:

Categories: Live Q&A

Symposium	Saturday, 28 August 2021	10:30 - 11:15	Interventional Cardiology & CV Surgery, Stroke, PAD, Aortic Disease - Channel
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Embolic stroke of unknown source: not so cryptic after all

Session Number: 425

Chairpersons: R De Caterina (Pisa, IT)

- 10:30 Embolic stroke of unknown source: the role of atrial cardiomyopathy and left atrial appendage dysfunction.**
A Goette (Paderborn,DE)
- 10:41 Embolic stroke of unknown source: is anticoagulation beneficial?**
R Mehran (New York,US)
- 10:52 Recurrent stroke after transcatheter PFO closure.**
L Soendergaard (Hilleroed,DK)
- 11:03 Embolic stroke of unknown source: not so cryptic after all – discussion.**
G Ntaios (Larisa,GR)

Learning Objectives:

Categories: Live Chat

Preventing recurrent stroke: drugs and devices**Session Number: 426**Chairpersons: W Doehner (Berlin, DE)

- 09:30 Preventing recurrent stroke: management of cardiovascular risk factors.**
RB Schnabel (Hamburg,DE)
- 09:41 Preventing recurrent stroke: which patient for drugs and which patient for LAAO?**
J Siller-Matula (Vienna,AT)
- 09:52 Preventing recurrent stroke in patient with PFO: how long is the RoPE?**
J Kovac (Leicester,GB)
- 10:03 Preventing recurrent stroke: drugs and devices – discussion.**
S Boytsov (Moscow,RU)

Learning Objectives:

Categories: Live Chat

**Guidelines in Practice: antithrombotic therapy in atrial fibrillation and
acute myocardial infarction**

Session Number: 427

Chairpersons: M Roffi (Geneva, CH) - C Gibson (Boston, US)

08:00 A patient with NSTEMI and atrial fibrillation: case presentation.
I Eitel (Luebeck,DE)

08:15 A patient with NSTEMI and atrial fibrillation: what do the guidelines say?
JP Collet (Paris,FR)

**08:30 A patient with NSTEMI and atrial fibrillation: how to implement the guidelines and
take-home message.**
R Colleran (Dublin,IE)

Learning Objectives:

Categories: Live Q&A

Great Debate: when less is more – options to reduce the risk of bleeding after PCI**Session Number: 428**Chairpersons: K Huber (Vienna, AT) - R Yeh (, US)

- 12:00 To reduce the risk of bleeding after PCI – Shorten DAPT!: pro.**
M Valgimigli (Lugano,CH)
- 12:15 To reduce the risk of bleeding after PCI – Shorten DAPT!: con.**
RF Storey (Sheffield,GB)
- 12:30 Great Debate: when less is more – options to reduce the risk of bleeding after PCI – discussion.**
S Schuepke (Munich,DE)

Learning Objectives:

Categories: Live Q&A

**Dealing with transcatheter aortic valve implantation (TAVI)
challenges****Session Number: 429**Chairpersons: BD Prendergast (London, GB) - A Chieffo (Milan, IT)**08:00 TAVI challenges: bicuspid aortic valve.**
S Bleiziffer (Bad Oeynhausen,DE)**08:11 TAVI challenges: small aortic annulus.**
D Tchetché (Toulouse,FR)**08:22 TAVI challenges: antithrombotic management after TAVI and prevention of valve
thrombosis and HALT.**
G Dangas (New York,US)**08:33 Dealing with transcatheter aortic valve implantation (TAVI) challenges –
discussion.**
M Urena (Paris,FR)

Learning Objectives:

Categories: Live Q&A

**Great Debate: transcatheter mitral valve repair/replacement for
secondary mitral regurgitation – routine or niche?****Session Number: 430**Chairpersons:

R Von Bardeleben (Mainz, DE) - G Stone (New York, US)

- 12:00** **Transcatheter mitral valve repair/replacement for secondary mitral regurgitation:
evidence suggests routine use – pro.**
M Guerrero (Rochester,US)
- 12:15** **Transcatheter mitral valve repair/replacement for secondary mitral regurgitation:
evidence suggests routine use – con.**
M Borger (Leipzig,DE)
- 12:30** **Great Debate: transcatheter mitral valve repair/replacement for secondary mitral
regurgitation – routine or niche? – discussion.**
P Sorajja (Minneapolis,US)

Learning Objectives:

Categories: Live Q&A

Symposium	Monday, 30 August 2021	12:00 - 12:45	Interventional Cardiology & CV Surgery, Stroke, PAD, Aortic Disease - Channel
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When coronary angiography is not enough: morphology or physiology?

Session Number: 431

Chairpersons: MD Radu (Copenhagen, DK) - M Madan (Toronto, CA)

- 12:00 When coronary angiography is not enough: turn on the light with OCT – the default strategy.**
L Raber (Bern,CH)
- 12:11 When coronary angiography is not enough: IVUS definitely sounds better – established tool with unique advantages.**
A Maehara (New York,US)
- 12:22 When coronary angiography is not enough: flow far with FFR – physiology makes most sense.**
J Escaned (Madrid,ES)
- 12:33 When coronary angiography is not enough: morphology or physiology? – discussion.**
M Alasnag (Jeddah,SA)

Learning Objectives:

Categories: Live Q&A

Symposium	Monday, 30 August 2021	09:30 - 10:15	Interventional Cardiology & CV Surgery, Stroke, PAD, Aortic Disease - Channel
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Saving lives: STEMI and cardiogenic shock

Session Number: 432

Chairpersons: T Rudolph (Bad Oeynhausen, DE) - C Grines (Atlanta, US)

- 09:30 Revascularisation in STEMI and shock: when, how and how complete?**
H Thiele (Leipzig,DE)
- 09:41 Mechanical support devices in STEMI and shock: when and in whom?**
F Gustafsson (Copenhagen,DK)
- 09:52 Mechanical complications in STEMI and shock: when catheter intervention or surgery is needed.**
C Di Mario (London,GB)
- 10:03 Saving lives: STEMI and cardiogenic shock – discussion.**
M Alasnag (Jeddah,SA)

Learning Objectives:

Categories: Live Chat

Great Debate: controversies in left main revascularisation – to stent or to operate?**Session Number: 433**Chairpersons: F Neumann (Bad Krozingen, DE) - C Indolfi (Catanzaro, IT)**12:00 PCI for left main revascularisation: pro.**
AP Banning (Oxford,GB)**12:15 PCI for left main revascularisation: con.**
JS Lawton (Baltimore,US)**12:30 Great Debate: controversies in left main revascularisation – to stent or to operate?
– discussion.**
R Mehran (New York,US)

Learning Objectives:

Categories: Live Q&A

Aberrant coronary arteries: surgical treatment indications and techniques

Joint with the European Association for Cardio-Thoracic Surgery (EACTS)

Session Number: 434

Chairpersons: C Muneretto (Brescia, IT) - M Hazekamp (, NL)

- 10:30 Imaging and functional evaluation of aberrant coronary arteries.**
C Graeni (Bern,CH)
- 10:41 A new diagnostic algorithm to refine treatment indications and the surgical approach.**
H Vliegen (Leiden,NL)
- 10:52 Surgical treatment of aberrant coronary arteries from the aorta.**
M Hazekamp (- ,NL)
- 11:03 Aberrant coronary arteries: surgical treatment indications and techniques – discussion.**
L Torracca (Rozzano,IT)

Learning Objectives: To better define indication for surgery based on morphological and functional aspects of aberrant coronary arteries
To learn about surgical techniques to correct aberrant coronary arteries

Categories: Live Chat

Defying the odds of stroke in patients with atrial fibrillation: dealing with the left atrium

Joint with the European Stroke Organisation (ESO)

Session Number: 435

Chairpersons: J Kovac (Leicester, GB) - M Rubiera (Barcelona, ES)

- 09:30 Atrial fibrillation or atrial cardiomyopathy: screening patients for high risk of stroke.**
IC Van Gelder (Groningen,NL)
- 09:41 Medical treatment in AF: patient selection – drug selection, anticoagulants and more.**
P Vanacker (Antwerp,BE)
- 09:52 Left atrial appendage occlusion for stroke prevention: which patient and when?**
U Landmesser (Berlin,DE)
- 10:03 Defying the odds of stroke in patients with atrial fibrillation: dealing with the left atrium – discussion.**
M Coylewright (Chattanooga,US)

Learning Objectives:

Categories: Live Chat

Symposium	Monday, 30 August 2021	08:00 - 08:45	Interventional Cardiology & CV Surgery, Stroke, PAD, Aortic Disease - Channel
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Antithrombotic therapy after TAVI

Session Number: 440

Chairpersons:

Learning Objectives:

Categories: Live Q&A

Evolving frontiers for coronary artery disease

Session Number: 446

Chairpersons: A Colombo (Milan, IT) - G Buchanan (Carlisle, GB)

10:30 A view to the future: approach to vulnerable plaque and/or vulnerable patients
RA Byrne (Dublin, IE)

10:45 Efficacy and safety of inclisiran in patients with polyvascular disease: pooled, post hoc analysis of the ORION-9, ORION-10 and ORION-11, phase 3 randomised controlled trials
W Koenig (Munich, DE)

11:00 Fractional flow reserve or instantaneous flow reserve to guide coronary artery bypass grafting.
D Venetsanos (Linköping, SE)

Learning Objectives:

Categories: Abstract-Based Programme

COVID-19 and percutaneous intervention

Session Number: 447

Chairpersons: R Bonow (Chicago, US) - M Gilard (Brest Cedex, FR)

- 20:15 Assessment of vascular endothelial function in COVID-19 patients**
H Mejia Renteria (Majadahonda, ES)
- 20:24 Soluble urokinase-type plasminogen activator receptor (suPAR) is associated with risk for thromboembolic complications and mortality in patients with COVID-19**
S Luo (Chicago, US)
- 20:33 Impact of COVID-19 lockdowns on STEMI percutaneous interventions**
V Zlochiver (Milwaukee, US)
- 20:42 Endothelial miR-24 predicts COVID-19 cerebrovascular manifestations**
J Gambardella (Naples, IT)
- 20:51 Stroke mechanisms associated with coronavirus disease (COVID-19)**
M Kruchinina (Novosibirsk, RU)

Learning Objectives:

Categories: Abstract-Based Programme, COVID-19

Highlights from the Young in Intervention

Session Number: 448

Chairpersons: M Morice (Massy, FR) - R Kornowski (Petach-Tikva, IL)

- 07:15 Risk prediction in patients with classical Low-flow, low-gradient aortic stenosis undergoing TAVI**
S Ludwig (Hamburg,DE)
- 07:24 Ticagrelor monotherapy after percutaneous coronary intervention in patients with concomitant diabetes mellitus and chronic kidney disease: a TWILIGHT substudy**
- 07:33 Implications of ESC-high thrombotic risk features and ARC-high bleeding risk criteria on clinical outcomes in all-comer patients undergoing PCI**
HY Wang (Beijing,CN)
- 07:42 Long-term follow-up of early leaflet thrombosis after transcatheter aortic valve replacement**
- 07:51 Derivation and validation of a pretest probability score for deep vein thrombosis before surgery**
Y Hamamoto (Kagoshima,JP)

Learning Objectives:

Categories: Abstract-Based Programme

Novel insights into aortic syndromes**Session Number: 449**Chairpersons: A Halliday (Oxford, GB) - E Bossone (Lauro, IT)

- 20:15** **Genotype-phenotype correlations in Marfan syndrome patients with FBN1 mutations: a cohort study on 1575 patients**
P Arnaud (Paris,FR)
- 20:24** **Marfan syndrome: genetic variant determinants of cardiovascular outcomes**
M Brogger (A Coruna,ES)
- 20:33** **Family history of aortic dissection is not a risk factor in Marfan syndrome with a FBN1 gene mutation**
- 20:42** **Tissue microRNA expression in aortic aneurysm dissection**
- 20:51** **Arrhythmia and cardiomyopathy in Heritable Thoracic Aortic Disease: an international retrospective cohort study**
A Demolder (Ghent,BE)

Learning Objectives:

Categories: Abstract-Based Programme

Best of peripheral vascular and cerebrovascular disease

Session Number: 450

Chairpersons: D Sibbing (Eichenau, DE)

- 07:15** **Anxiety and depression associate with heightened risk of deep venous thrombosis: mediation through neural pathways**
K Mezue (Boston,US)
- 07:24** **Sex related differences in vascular interventions and outcome of patients with critical limb threatening ischemia in a real-world cohort**
L Makowski (Muenster,DE)
- 07:33** **Risk and the efficacy and safety of rivaroxaban in patients with symptomatic PAD with and without comorbid diabetes: insights from VOYAGER PAD**
C Low Wang (Aurora,US)
- 07:42** **Type 2 diabetes and risk of major cardiovascular events in peripheral artery disease versus coronary artery disease patients**
- 07:51** **Association between adherence to home-based walking exercise with a pedometer and one-year adverse outcomes among lower extremity peripheral artery disease patients with endovascular treatment**
K Kawamura (Okayama,JP)

Learning Objectives:

Categories: Abstract-Based Programme

Novel insight into thromboembolic stroke and transient ischemic attack**Session Number: 451**Chairpersons: P Presbitero (Rozzano, IT) - G Mikhail (London, GB)**20:15 Capacities of atrial fibrillation detection after stroke : a French nationwide survey****20:24 Impact of excessive supraventricular ectopic activity detected in the acute phase of stroke or TIA on AF detection and death within 24 months - Results of the prospective MonDAFIS study****20:33 Similarities and differences in risk factors for retinal artery occlusion and stroke.**
M Oerskov (Aalborg,DK)**20:42 Patient characteristics and clinical outcomes of type 2 myocardial infarction in patients with acute ischemic stroke in the united states****20:51 Apixaban for treatment of embolic stroke of undetermined source (ATTICUS) randomized trial - Update of patient characteristics and study timeline after interim analysis**
S Poli (Tuebingen,DE)

Learning Objectives:

Categories: Abstract-Based Programme

Coronary revascularisation focusing on outcomes

Session Number: 452

Chairpersons: P Widimsky (Prague, CZ) - D Trabattoni (Monza, IT)

- 07:15 Repeat revascularization impact on 10-year survival after PCI or CABG: post-hoc analysis of the SYNTAXES trial**
ML Lunardi Mattia (Galway, IE)
- 07:24 Magnesium-based bioresorbable scaffolds in acute coronary syndrome: long-term follow-up**
- 07:33 Pre-treatment with P2Y12 inhibitors in patients with chronic coronary syndrome undergoing percutaneous coronary intervention**
J Jurga (Stockholm, SE)
- 07:42 Repeat revascularisation following PCI in the UK Biobank prospective cohort study: incidence, independent predictors and prognostic impact**
J Sangha (Hereford, GB)
- 07:51 Intracoronary pharmacological therapy versus aspiration thrombectomy in patients presenting with ST-segment elevation myocardial infarction (IPAT-STEMI): a systematic review and meta-analysis**

Learning Objectives:

Categories: Abstract-Based Programme

Cardiovascular intervention: patient risk and technical features

Session Number: 453

Chairpersons: U Zeymer (Ludwigshafen, DE) - E Piccaluga (Milano, IT)

- 07:15** **The impact of chronic kidney disease on long-term survival following PCI or CABG in patient with three-vessel and/or left main coronary artery disease**
C Gao (Xi'an,CN)
- 07:24** **Effect of risk enhancers versus technical aspects of high thrombotic risk criteria on adverse clinical events after PCI: insights from 2020 ESC NSTEMI-ACS Guidelines**
HY Wang (Beijing,CN)
- 07:33** **Peripheral intravascular lithotripsy to facilitate transfemoral TAVR: a multicentric prospective registry**
- 07:42** **New insights into optimal duration of DAPT for high-risk "TWILIGHT-like" patients with diabetes mellitus undergoing PCI: a focus on diabetes mellitus as a high-risk patient group**
HY Wang (Beijing,CN)
- 07:51** **Association of major bleeding with outcomes in patients undergoing percutaneous left atrial appendage closure**
S Nazir (Toledo,US)

Learning Objectives:

Categories: Abstract-Based Programme

New Insights into cardiovascular surgery**Session Number: 454**Chairpersons: M Siepe (Freiburg, DE) - J Chikwe (New-York, US)

- 20:15 Higher levels of serum phosphorus are associated with coronary calcification post heart transplantation**
- 20:24 Sarcomere ACTC1 and MYO18A serum expression levels detect acute cellular rejection in cardiac transplant patients**
- 20:33 Twelve months results from a prospective real-world multicenter clinical practice of CAS using the CGuard Embolic Prevention System (EPS): The IRONGUARD 2 study**
- 20:42 Prognostic implications of staging right heart failure in patients with significant tricuspid regurgitation undergoing tricuspid valve surgery**
X Galloo (Brussels, BE)
- 20:51 Ten-year all-cause mortality following percutaneous or surgical revascularization in patients with heavy calcification: insights from the SYNTAX extended survival study**

Learning Objectives:

Categories: Abstract-Based Programme

Congress committee e-posters choice in aortic and intervention

Session Number: 455

Chairpersons:

D Capodanno (Catania, IT) - M Czerny (Freiburg, DE) - M Alasnag (Jeddah, SA) - T Rudolph (Bad Oeynhausen, DE) - MD Radu (Copenhagen, DK) - J Kovac (Leicester, GB) - M Borger (Leipzig, DE) - R Mehran (New York, US)

- 08:00 Predictive value of cardiac troponin increase after percutaneous coronary intervention: is it just a marker of disease complexity?**
B Chevalier (Massy,FR)
- 08:00 Optimizing DAPT duration in patients with 2018 ESC/EACTS myocardial revascularization guideline-endorsed high thrombotic risk features**
- 08:00 Relative implications of complex PCI versus high bleeding risk on clinical outcomes after percutaneous coronary intervention in the contemporary era**
- 08:00 The impact of bleeding after transcatheter aortic valve implantation on mortality and quality of life (from the POPular TAVI trials).**
V Nijenhuis (Culemborg,NL)
- 08:00 Relative Impact of High Ischemic Risk (ESC/EACTS guidelines on myocardial revascularization) Versus High Bleeding Risk (PRECISE-DAPT score) on Clinical Outcomes After PCI**
- 08:00 Prognostic implications of 2020 ESC NSTEMI-ACS Guidelines risk enhancers versus technical aspects on clinical outcomes after PCI**
- 08:00 Word of caution on adding hemiarch replacement to a proximal aortic aneurysm repair: long-term outcome analysis of over 1,000 patients**
C Pearsall (New York,US)
- 08:00 First results of a dutch cohort of patients undergoing personalized external aortic root support.**
- 08:00 Utility of familial screening in non-syndromic thoracic aortic disease**
J Rodriguez Ortuno (Sevilla,ES)
- 08:00 Outcomes of endovascular management of the aorta in connective tissue disorders**
X Yuan (London,GB)
- 08:00 Cerebral embolic protection devices for stroke prevention in transcatheter aortic valve implantation, a meta-analysis**
D Perez Camargo (- ,ES)
- 08:00 Reintervention for the trifecta aortic bioprosthesis: large single-centre series**
A Fard (- ,GB)
- 08:00 Aortic atherosclerotic plaques: the role of anticoagulation**
- 08:00 Normal values of aortic root diameters in sub saharan africans: the TAHES study.**
D Vandroux (- ,FR)
- 08:00 Computational fluid dynamics to access the future risk of ascending aortic aneurysms**
FS Azevedo (Rio De Janeiro,BR)
- 08:00 Results of conservative treatment of prosthetic infection of the thoracic and thoracoabdominal aorta**
RA Abdulgasanov (Moscow,RU)

- 08:00** **Impact of COVID-19 pandemic on surgical care of patients with acute aortic conditions**
X Yuan (London,GB)
- 08:00** **Aorto-aortic bypassing with BASEX explants for infection of the thoracic aorta**
RA Abdulgasanov (Moscow,RU)
- 08:00** **Population-based incidence and outcomes of acute aortic dissection in Japan**
- 08:00** **Impact of left ventricular ejection fraction on clinical outcomes in females undergoing percutaneous coronary intervention with drug-eluting stents**
J Nicolas (New York,US)
- 08:00** **Gender-based differences in outpatient care of peripheral artery diseases in germany**
D Messiha (- ,DE)
- 08:00** **Comparison of outcomes between imaging guided versus angiography guided percutaneous coronary intervention in patients with acute coronary syndrome: insights from the national inpatient sample**
- 08:00** **Comparative analysis of sequential pot-side-pot and kissing balloon techniques in patients with coronary bifurcation lesions treated with single stent strategy: propensity score analysis**
G Cetinkal (Istanbul,TR)
- 08:00** **Distal versus conventional transradial access for coronary angiography and intervention: A systematic review and meta-analysis**
M Mhanna (Toledo,US)
- 08:00** **Sex differences in transradial access site characteristics and crossover in STEMI**
B Zafirovska Taleska (Skopje,MK)
- 08:00** **Double kissing - crush technique to treat coronary bifurcation lesions: analysis of success rate, procedural times and device usage**
- 08:00** **Five-year outcomes of mild paravalvular regurgitation after transcatheter aortic valve implantation**
- 08:00** **Prognostic impact of coronary artery disease severity and revascularization in TAVI patients**
G Silva (Vila Do Conde, Porto,PT)
- 08:00** **Prognostic role of right ventricular geometry and function in patients undergoing double valve surgery**
- 08:00** **Automated classification of coronary atherosclerotic plaque in optical frequency domain imaging based on deep learning**
H Shibutani (Osaka,JP)
- 08:00** **The relationship of the underlying lipidic plaque at the implanted newer-generation drug-eluting stents with future stent-related events: Insights from the REASSURE-NIRS registry**
K Murai (Suita,JP)
- 08:00** **Prediction of the functional significance of the left main stenosis using frequency domain optical coherence tomography**

- 08:00** **Optical coherence tomography-defined vulnerable plaque characteristics in relation to functional severity of coronary stenoses stratified by quantitative flow ratio**
W Zuo (Nanjing,CN)
- 08:00** **Cerebrovascular events after transcatheter mitral valve repair or guideline-directed medical therapy in patients with mitral regurgitation and heart failure in the COAPT trial**
F Vincent (Lille,FR)
- 08:00** **Novel pressure-regulated deployment strategy for improving the safety and efficacy of balloon-expandable transcatheter aortic valves**
A Snir (Sydney,AU)
- 08:00** **Bayesian network meta-analysis comparing outcomes of surgical versus transcatheter aortic valve implantation for patients with severe aortic stenosis**
JS Jang (Busan,KR)
- 08:00** **Recurrence of cerebrovascular events in patients with patent foramen ovale - one centre observation**
- 08:00** **LAA closure therapy in patients with atrial fibrillation- data from a german real-world registry of 5 high volume centers**
- 08:00** **Self-expanding and balloon-expandable transfemoral transcatheter aortic valve replacement: in-hospital outcomes in Germany**
V Oettinger (Pluederhausen,DE)
- 08:00** **Conquering stroke epidemiological statistics in Brazil an innovative initiative from the Brazilian Society of Cardiology**
M Machline-Carrion (- ,BR)
- 08:00** **Comparison of valve durability among different transcatheter and surgical aortic valve prostheses: a network meta-analysis**
H Ueyama (New York City,US)
- 08:00** **Localization of the femoral artery bifurcation: hips don't lie - in at least 97 % of cases**
S Uehlein (- ,DE)
- 08:00** **Rate, correlates, and outcomes of hemodynamic valve deterioration after transcatheter aortic valve replacement**
C Nitsche (Vienna,AT)
- 08:00** **Paravalvular leaks: short and long-term outcomes of surgical versus percutaneous closure.**
AI Molina Ramos (Malaga,ES)
- 08:00** **¹⁸F-Sodium fluoride positron emission tomography, aortic disease activity and ischaemic stroke risk**
A Fletcher (Edinburgh,GB)
- 08:00** **Moderate alcohol intake associates with a decreased risk of venous thrombosis: mediation through decreased stress-associated brain activity**
K Mezue (Boston,US)
- 08:00** **Risk profile and the efficacy and safety of rivaroxaban in fragile PAD patients after revascularization: insights from VOYAGER PAD**

Learning Objectives:

Categories: Abstract-Based Programme

How should we treat pulmonary arterial hypertension: same old news or new therapies on the horizon?

Session Number: 460

Chairpersons: JG Coghlan (London, GB) - A Manes (Bologna, IT)

- 08:00 A patient with pulmonary arterial hypertension: case presentation.**
A Boucly (Le Kremlin Bicetre,FR)
- 08:11 A patient with pulmonary arterial hypertension: how I would treat.**
M D'Alto (Naples,IT)
- 08:22 A patient with pulmonary arterial hypertension: how I did treat.**
A Boucly (Le Kremlin Bicetre,FR)
- 08:33 How should we treat pulmonary arterial hypertension: same old news or new therapies on the horizon? – discussion.**
JL Vachiery (Brussels,BE)

Learning Objectives:

Categories: Live Q&A

New directions in pulmonary vascular intervention**Session Number: 461**Chairpersons: E Klok (Leiden, NL)

- 10:30 Do we need catheter-directed intervention for acute pulmonary embolism? HIPEITHO trial, and more.**
ASP Sharp (Exeter,GB)
- 10:41 Balloon pulmonary angioplasty for chronic thromboembolic pulmonary hypertension.**
A Andersen (Aarhus N,DK)
- 10:52 Balloon pulmonary angioplasty and stenting for pulmonary artery branch stenosis.**
W Budts (Leuven,BE)
- 11:03 New directions in pulmonary vascular intervention – discussion.**
IM Lang (Vienna,AT)

Learning Objectives:

Categories: Live Chat

How To ...

Saturday, 28 August 2021

09:30 - 10:15

Valvular, Myocardial,
Pericardial, Pulmonary,
Congenital Heart Disease -
Channel

Preventing maternal sudden cardiac death

Session Number: 462

Chairpersons: L Zuhlke (Cape Town, ZA)

09:30 How to manage adult congenital heart disease during pregnancy to prevent sudden cardiac death.

09:45 How to manage other types of cardiac diseases to prevent sudden death during pregnancy.

M Knight (Oxford,GB)

10:00 Preventing maternal sudden cardiac death – discussion.

C Viljoen (Cape Town,ZA)

Learning Objectives:

Categories: Live Chat, Spotlight of the Congress

Symposium	Saturday, 28 August 2021	10:30 - 11:15	Valvular, Myocardial, Pericardial, Pulmonary, Congenital Heart Disease - Channel
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Drug treatment of inherited cardiomyopathies

Session Number: 463

Chairpersons: K Haugaa (Oslo, NO)

- 10:30 Targeting the pathophysiology of hypertrophic cardiomyopathy.**
I Olivotto (Firenze,IT)
- 10:41 Imagining a personalised approach to dilated cardiomyopathy.**
A Flammer (Zurich,CH)
- 10:52 Emerging from the darkness: treatment of TTR amyloidosis.**
P Garcia-Pavia (Madrid,ES)
- 11:03 Drug treatment of inherited cardiomyopathies – discussion.**
E Biagini (Bologna,IT)

Learning Objectives:

Categories: Live Chat

Meet the Experts **Saturday, 28 August 2021**

12:00 - 12:45

Valvular, Myocardial,
Pericardial, Pulmonary,
Congenital Heart Disease -
Channel

**Meet the Experts: genetic variants in cardiovascular disease – what
clinicians need to know**

Session Number: 465

Chairpersons: H Schunkert (Muenchen, DE) - PM Elliott (London, GB)

**12:00 Functional genomics in translational cardiovascular research: what clinicians
need to know**

J van der Velden (Amsterdam,NL)

**12:15 The central role of the clinician in genetic variant interpretation: what clinicians
need to know.**

E Arbustini (Pavia,IT)

**12:30 Meet the Experts: genetic variants in cardiovascular disease – what clinicians
need to know – discussion.**

CM van Duijn (Oxford,GB)

Learning Objectives:

Categories: Live Q&A

**Guidelines in Practice: management of atrial septal defect with
pulmonary hypertension**

Session Number: 466

Chairpersons: J De Backer (Ghent, BE) - M Schwerzmann (Bern, CH)

08:00 The many faces of ASD management: case presentation.
MHS El Sayed (Cairo,EG)

08:15 The many faces of ASD management: what do the guidelines say?
H Baumgartner (Muenster,DE)

08:30 The many faces of ASD management: how to implement the guidelines and take-home message.
S Rosenkranz (Köln,DE)

Learning Objectives:

Categories: Live Q&A

Sudden cardiac death in adult congenital heart disease (ACHD)**Session Number: 467**Chairpersons:

S Ernst (London, GB) - N de Groot (Rotterdam, NL)

- 12:00 The different substrates of ventricular arrhythmia in adult congenital heart disease.**
F Sacher (Bordeaux Pessac Cedex,FR)
- 12:11 Risk stratification for sudden cardiac death in adult congenital heart disease.**
P Gallego Garcia De Vinuesa (Sevilla,ES)
- 12:22 Treatment options for ventricular tachycardia in adult congenital heart disease – ICD and ablation.**
M De Riva Silva (Leiden,NL)
- 12:33 Sudden cardiac death in adult congenital heart disease (ACHD) – discussion.**
M Gatzoulis (London,GB)

Learning Objectives:

Categories: Live Q&A, Spotlight of the Congress

How should I treat a patient with severe aortic stenosis and coronary artery disease at low surgical risk?

Session Number: 468

Chairpersons: A Vahanian (Vincennes, FR) - B Iung (Paris, FR)

- 08:00 A 70-year-old patient with severe aortic stenosis and coronary artery disease at low surgical risk: case presentation**
J Mehilli (Munich,DE)
- 08:11 A 70-year-old patient with severe aortic stenosis and coronary artery disease at low surgical risk: how I would treat.**
T Pilgrim (Bern,CH)
- 08:22 A 70-year-old patient with severe aortic stenosis and coronary artery disease at low surgical risk: how I did treat.**
J Mehilli (Munich,DE)
- 08:33 How should I treat a patient with severe aortic stenosis and coronary artery disease at low surgical risk? – discussion**
H Baumgartner (Muenster,DE)

Learning Objectives:

Categories: Live Q&A

Symposium	Friday, 27 August 2021	12:00 - 12:45	Valvular, Myocardial, Pericardial, Pulmonary, Congenital Heart Disease - Channel
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TAVI in 2021: state of the art

Session Number: 469

Chairpersons: A Baumbach (London, GB) - MB Leon (New York, US)

- 12:00 TAVI in 2021: state of the art.**
S Windecker (Bern,CH)
- 12:11 Durability of TAVI: what do we know and how to follow up.**
H Eltchaninoff (Rouen Cedex,FR)
- 12:22 Optimal antithrombotic regimen and stroke prevention in TAVI.**
O De Backer (Copenhagen,DK)
- 12:33 TAVI in 2021: state of the art – discussion.**
M Gilard (Brest Cedex,FR)

Learning Objectives:

Categories: Live Q&A

TAVI in bicuspid aortic valves: a challenge**Session Number: 470**Chairpersons: L Soendergaard (Hilleroed, DK)**09:30 The heterogeneity of bicuspid aortic valve anatomy.**

J Leipsic (Vancouver, Bc,CA)

09:41 TAVI in bicuspid aortic valves: device selection and procedural aspects.

D Tchetché (Toulouse,FR)

09:52 Outcomes after TAVI in bicuspid aortic valves.

R Makkar (Los Angeles,US)

10:03 TAVI in bicuspid aortic valves: a challenge – discussion.

A Petronio (Pisa,IT)

Learning Objectives:

Categories: Live Chat

Meet the Experts	Monday, 30 August 2021	08:00 - 08:45	Valvular, Myocardial, Pericardial, Pulmonary, Congenital Heart Disease - Channel
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Meet the Experts: intervention in primary mitral regurgitation

Session Number: 471

Chairpersons: O Wendler (London, GB) - F Praz (Bern, CH)

- 08:00 Surgical mitral valve repair in patients with complex anatomy: how to achieve mitral valve competence.**
M Borger (Leipzig,DE)
- 08:15 Transcatheter mitral valve intervention: where are we in the summer of 2021?**
G Nickenig (Bonn,DE)
- 08:30 Meet the Experts: intervention in primary mitral regurgitation – discussion.**
V Delgado (Leiden,NL)

Learning Objectives:

Categories: Live Q&A

Tricuspid valve regurgitation: treatments for the not so forgotten valve**Session Number: 472**Chairpersons: M Sarano (Minneapolis, US)

- 10:30** **Tricuspid valve regurgitation: challenges in imaging.**
V Delgado (Leiden,NL)
- 10:41** **Tricuspid valve regurgitation: transcatheter techniques.**
J Hausleiter (Muenchen,DE)
- 10:52** **Tricuspid valve regurgitation: surgical aspects.**
V Falk (Berlin,DE)
- 11:03** **Tricuspid valve regurgitation: treatments for the not so forgotten valve – discussion.**
P Lurz (Leipzig,DE)

Learning Objectives:

Categories: Live Chat

Meet the Experts **Monday, 30 August 2021**

12:00 - 12:45

Valvular, Myocardial,
Pericardial, Pulmonary,
Congenital Heart Disease -
Channel

Managing multivalve disease: decision dilemmas

Session Number: 473

Chairpersons: S Baldus (Koln, DE) - C Hengstenberg (Wien, AT)

12:00 Aortic stenosis and mitral regurgitation: treatment options and algorithms.

F Praz (Bern,CH)

12:15 Mitral regurgitation and tricuspid regurgitation: treatment options and algorithms.

E Lubos (Hamburg,DE)

12:30 Managing multivalve disease: decision dilemmas – discussion.

A Latib (Milan,IT)

Learning Objectives:

Categories: Live Q&A

Official Joint Session	Monday, 30 August 2021	09:30 - 10:15	Valvular, Myocardial, Pericardial, Pulmonary, Congenital Heart Disease - Channel
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NOACs in adult congenital heart disease: show me the evidence!

Session Number: 475

Joint with the International Society for Adult Congenital Heart Disease (ISACHD)

Chairpersons: Y Kim (Philadelphia, US) - GP Diller (Muenster, DE)

09:30 NOACs are safe and effective in adult congenital heart disease!

BJ Mulder (Amsterdam,NL)

09:45 In adult congenital heart disease, NOACs are not safe and not effective enough!

R Alonso Gonzalez (Toronto,CA)

10:00 Gap between evidence and clinical practice in prescription! – discussion

E Oechslin (Toronto,CA)

Learning Objectives:

Categories: Live Chat

Tailored approach for late presenters with congenital heart disease

Session Number: 476

Joint with the Pan Arab Congenital Heart Disease Association (PACHDA)

Chairpersons: MHS El Sayed (Cairo, EG) - M Huntgeburth (Munich, DE)

- 10:30 Late presenters with LVOTO in childhood.**
F Bitar (Beirut, LB)
- 10:41 Left to right shunts with pulmonary hypertension.**
M El-Segaier (Tripoli, LY)
- 10:52 Late postoperative complications (chronically occluded baffles).**
M Ebeid (Jackson, US)
- 11:03 Tailored approach for late presenters with congenital heart disease – discussion.**
H Elmarsafawy (Mansoura, EG)

Learning Objectives:

Categories: Live Chat

Adult congenital heart disease: current situation and future issues

Session Number: 477

Joint with the Japanese Circulation Society (JCS)

Chairpersons: K Niwa (Chiba, JP) - M Ladouceur (Paris, FR)

09:30 Current therapeutic strategies and long-term outcome of adult atrial septal defect associated with pulmonary hypertension.
T Akagi (Okayama,JP)

09:41 Heart failure in adult congenital heart disease in Japan: a report from the JROAD-DPC study.
T Ishizu (Ibaraki,JP)

09:52 Organisation of care for ACHD: a challenge worldwide.
M Gatzoulis (London,GB)

10:03 The current situation and future issues in ACHD – discussion.
A Marelli (Montreal,CA)

Learning Objectives:

Categories: Live Chat

Global perspectives on structural heart disease

Session Number: 478

Joint with the Great Wall International Congress of Cardiology (GW-ICC)

Chairpersons: N Guo (Xi'an, CN) - BD Prendergast (London, GB)

- 10:30 TAVI in China.**
M Chen (Chengdu,CN)
- 10:41 Transcatheter mitral and tricuspid valve intervention in China.**
G Song (Beijing,CN)
- 10:52 An integrative perspective on transcatheter valve intervention in Europe.**
NVM van Mieghem (Rotterdam,NL)
- 11:03 Global perspectives on structural heart disease – discussion.**
C Tamburino (Catania,IT)

Learning Objectives: As transcatheter treatment of structural heart disease gains global popularity, this session will discuss the status quo and future prospects of the treatment in Europe and China.

Categories: Live Chat

Official Joint Session	Monday, 30 August 2021	10:30 - 11:15	Valvular, Myocardial, Pericardial, Pulmonary, Congenital Heart Disease - Channel
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Fontan-associated liver disease

Session Number: 479

Joint with the Association for European Paediatric Cardiology (AEPC)

Chairpersons: K Hanseus (Lomma, SE) - O Milanesi (Padova, IT)

- 10:30 Fontan circulation and its consequence on the abdominal organs.**
M Gewillig (Leuven,BE)
- 10:41 Clinical assessment of Fontan-associated liver disease and its surveillance.**
O Tutarel (Munich,DE)
- 10:52 Treatment strategies: from Fontan circulation to liver and heart transplant.**
D Crossland (Newcastle Upon Tyne,GB)
- 11:03 Fontan-associated liver disease – discussion.**
W Budts (Leuven,BE)

Learning Objectives:

Categories: Live Chat

e-posters	Friday, 27 August 2021	08:00 - 20:00	Abstracts and Clinical Cases - On Demand
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e-Cardiology/Digital Health ePosters

Session Number: **480**

Chairpersons:

- 08:00 Comparison of deep learning with traditional models to predict preventable acute care use and spending among heart failure patients**
M Lewis (Haifa,IL)
- 08:00 Detection of myocardial ischemia by intracoronary ECG using convolutional neural networks**
MR Bigler (Bern,CH)
- 08:00 Home monitoring program for patients following cardiac surgery**
M Sokolskaya (Moscow,RU)
- 08:00 A new clinical decision support tool based on personalized evidence-based medicine improves outcomes of anticoagulation therapy in patients with atrial fibrillation: an analysis from the AF registry**
E Pokushalov (Novosibirsk,RU)
- 08:00 Early detection of exacerbation of the severe acute respiratory syndrome coronavirus 2 infection using Fitbit (DEXTERITY Pilot Study)**
K Yamagami (- ,JP)
- 08:00 Patient empowerment: a way to improve the communication between young persons and healthcare providers**
M Acuna Mora (Gothenburg,SE)
- 08:00 Continuous monitoring of advanced hemodynamic parameters shows early cardiovascular changes in a cohort of 492 COVID-19 hospitalized patients.**
D Nachman (Jerusalem,IL)
- 08:00 Behavioral economics strategies for promoting adherence to treatment in heart failure patients**
L Malinova (Saratov,RU)
- 08:00 Effectiveness of machine learning algorithms in addressing no-show among first visit attenders in a cardiology specialist outpatient clinic**
P Arasaratnam (Singapore,SG)
- 08:00 Identifying patients with atrial fibrillation during sinus rhythm on ECG: confirming the utility of artificial intelligence algorithm in a small-scale cohort without structural heart diseases**
S Suzuki (Tokyo,JP)
- 08:00 Determination of left ventricular diastolic dysfunction using machine learning methods**
N Kuznetsova (Kolomna,RU)
- 08:00 The growing role of designated communicators in the monitoring of patients with left ventricular assist device in the era of the COVID pandemic.**
- 08:00 Heart rate variability analysis to improve early diagnostic and prognostic differentiation of parkinsonism of uncertain etiology. A 10 years follow-up study**
- 08:00 Patterns and predictors of smartphone ownership in a cardiology inpatient population**
- 08:00 Process evaluation of the TeleClinical Care pilot study**
- 08:00 Patients' perspectives on iatrogenic risk and therapeutic adherence of their cardiovascular therapies: a real-life survey**

- 08:00** **Role of telemedicine network provided by pharmacies to detect acute myocardial infarction in patients with chest pain during coronavirus pandemic**
F Fioretti (Brescia,IT)
- 08:00** **Impact of telemedicine network provided by local pharmacies in the management of symptomatic tachyarrhythmias during COVID-19 outbreak**
F Fioretti (Brescia,IT)
- 08:00** **Effects of remote monitoring of patients with heart failure based on smartphone application in the context of the COVID-19 pandemic in the Kyrgyz Republic**
A Rustambekova (Bishkek,KG)
- 08:00** **Application of a clinical decision support system to assess the severity of the new coronavirus infection COVID-19**
T Kuznetsova (Petrozavodsk,RU)
- 08:00** **Fairness in AI: Are deep learning-based CMR segmentation algorithms biased?**
E Puyol Anton (London,GB)
- 08:00** **How to give home BP monitoring patients the correct cuff: using BMI as a surrogate estimate of arm circumference.**
- 08:00** **Deep learning for automated left ventricular outflow tract diameter measurements in 2D echocardiography**
S Zha (Oslo,NO)
- 08:00** **Real-world data-driven risk prediction of hospitalization for heart failure in non-diabetic CKD**
F Kleinjung (Berlin,DE)
- 08:00** **Assessment of ECG during hybrid comprehensive telerehabilitation in heart failure patients - subanalysis of the TELEREHAbilitation in Heart Failure Patients - TELEREH-HF Randomized Clinical Trial**
E Piotrowicz (Warsaw,PL)
- 08:00** **Device therapy for the major complications detection and early treatment of patients with natural and iatrogenic comorbidities admitted to internal medicine wards.**
F Pietrantonio (Rome,IT)
- 08:00** **Machine-learning fusion approach for the prediction of atrial fibrillation onset using photoplethysmographic-based smart device**
L Li (Beijing,CN)
- 08:00** **Development and uptake of the National Heart Foundation of Australia Smart Heart Guideline App**
B Atkins (- ,AU)
- 08:00** **Machine learning prediction of mortality in venous thromboembolism patients: the birmingham black country venous thromboembolism (BBC-VTE) Cohort**
W K El-Bouri (Liverpool,GB)
- 08:00** **On the importance of representative datasets in ECG-based artificial intelligence**
N Gumpfer (Giessen,DE)
- 08:00** **Implementation of a remote rapid access chest pain service during the COVID-19 pandemic**
H Butt (London,GB)

- 08:00 Can machine learning augment clinician adjudication of events in cardiovascular trials?: A case study of major adverse cardiovascular events (MACE) across CVRM trials.**
H Lea (Gaithersburg,US)
- 08:00 Assessment of cognitive dysfunction using the Montreal Cognitive Assessment test: rate, severity and comparison with the Clock test alone in a population of patients referred for TAVI**
C Monnin (Belfort,FR)
- 08:00 Digital therapeutics effective in managing metabolic syndrome parameters**
- 08:00 Digital therapeutics: a systematic review of clinical trials characteristics**
- 08:00 Detecting cardiomyopathies in pregnancy and the postpartum period using ECG**
D Adedinsewo (Jacksonville,US)
- 08:00 Implementation of cardiology tele-visits after COVID-19 pandemic: the INFO-COVID survey**
G Boriani (Castenaso-Bo,IT)
- 08:00 New era of education: mobile learning of coronary guidewires in cardiovascular medicine**
H Kyaw (New York,US)
- 08:00 A data-pipeline processing electrocardiogram recordings for use in artificial intelligence algorithms**
- 08:00 Detecting a broader spectrum of cardiac pathologies in electrocardiogram data by applying a deep neural network designed to detect a specific cardiac disease**
S Wegener (- ,DE)
- 08:00 Transferability of data-driven models across healthcare systems may prove difficult**
M Jensen (Aalborg,DK)
- 08:00 Evaluation of the feasibility and accuracy of remote mobile app-based self-reported atrial fibrillation risk factor assessment in patients with atrial fibrillation: TeleCheck-AF results.**
ANL Hermans (Maastricht,NL)
- 08:00 The use of telemedicine in cardiogenetics clinical practice during the COVID-19 pandemic**
L Liang (New York,US)
- 08:00 A machine-learning-based bio-psycho-social model for the prediction of non-obstructive and obstructive coronary artery disease.**
- 08:00 Using a machine learning algorithm to detect depressed ejection fraction from a single-lead ECG**
L Guo (Oakland,US)
- 08:00 prediction of acute myocardial infarction or death in acute chest pain patients with machine learning models or first troponin T alone**
P Olsson de Capretz (Malmo,SE)
- 08:00 Racial disparities of internet access in the united states: a multiyear analysis of**

the national behavioral risk factors surveillance system

Al Ahmed (Houston,US)

- 08:00 Machine learning in the diagnosis of Myocardial Infarction with Non-Obstructive Coronary Arteries**
MJ Espinosa Pascual (Madrid,ES)
- 08:00 Feasibility of remote support for electrophysiological ablation procedures during CoVid-19 pandemics**
A Muessigbrodt (Leipzig,DE)
- 08:00 Impact of telehealth in the outpatient management of atrial fibrillation during the COVID-19 pandemic.**
I Shatla (Overland Park,US)
- 08:00 Co-designing digital cardiac rehabilitation with patients living in rural and remote Australia - the Country Heart Attack (CHAP) Prevention Project**
K Nesbitt (Naracoorte,AU)
- 08:00 Utility of device-derived daily activity, a novel digital biomarker, to predict ventricular arrhythmias - Data from the CERTITUDE registry**
V Kutyifa (Rochester,US)
- 08:00 ACS mortality prediction in Asian in-hospital patients with deep learning using machine learning feature selection.**
- 08:00 Patient self-screening stations for atrial fibrillation in general practice waiting rooms: process evaluation**
- 08:00 The relationships among the pulse rate, use of beta-blockers, and prognosis in patients with ischemic heart disease in a real-world database using a storage system**
Y Oba (Tochigi,JP)
- 08:00 Adopting digital health interventions for secondary prevention of cardiovascular disease: clinician perspectives**
Y Gao (- ,US)
- 08:00 A smartwatch as a rhythm monitor in prehospital emergency care**
- 08:00 Rapid rollout of a pacemaker home monitoring service during the 2020 COVID-19 pandemic**
J Shurlock (- ,GB)
- 08:00 Fully automatic detection and measurement of abdominal aortic aneurysm using artificial intelligence**
J Fujiwara (- ,JP)
- 08:00 Quantitative assessment of autonomic nervous system responses induced by graded training workloads in healthy elderly, through indices obtained from heart rate variability analysis**
- 08:00 Improving adherence to cholesterol lowering guidelines through an interactive digital tool**
S Rashid (Kearny,US)
- 08:00 Multicentre validation of point-of-care screening tool for heart failure: single-lead ECG recorded by smart stethoscope predicts low ejection fraction using artificial**

intelligence

P Bachtiger (Worthing,GB)

- 08:00 Readiness of cardiosurgical patients for digital rehabilitation programs**
E Pomeskhina (Kemerovo,RU)
- 08:00 Potential impact of a new generation of remote monitoring platform : evaluation of the yearly triage burden for 35 595 patients**
- 08:00 MRI provision for patients with cardiac implantable electronic devices: understanding the real-world administrative requirements of service delivery**
B Dowsing (East Sussex,GB)
- 08:00 Exploring phenotypes in hypertrophic cardiomyopathy with machine learning data integration. A multicentric, multimodality pilot study.**
- 08:00 Effectiveness of telemedicine in patients with heart failure according to frailty phenotypes: insights from the iCOR randomised controlled trial**

Learning Objectives:

Categories:

e-posters	Friday, 27 August 2021	08:00 - 20:00	Abstracts and Clinical Cases - On Demand
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Public Health and Health Economics ePosters

Session Number: 481

Chairpersons:

- 08:00 Development and validation of the ABC2-SPH risk score for in-hospital mortality in COVID-19 patients**
- 08:00 The impact of clinical skills training on hospital nursing care towards acquisition of improved care quality: a systematised review**
H Calmita (London,GB)
- 08:00 The economic burden of stent thrombosis: a review of the literature**
S Duff (Carlsbad,US)
- 08:00 Association between metabolic syndrome and incident colorectal cancer in young adults: analysis of a nationwide epidemiological database**
- 08:00 Assessment of risk factors for venous thromboembolic disease in COVID-19 patients using artificial intelligence techniques**
- 08:00 Costs analysis from a randomized comparison of immediate versus delayed angiography in patients successfully resuscitated after out-of-hospital cardiac arrest**
C Camaro (Nijmegen,NL)
- 08:00 The impact of hospital teaching status in atrial fibrillation hospital admission outcomes: a national inpatient analysis in the united states**
I Yepes Moreno (Pembroke Pines,US)
- 08:00 Atrial fibrillation screening: feasible approaches and implementation challenges across Europe**
D Engler (Hamburg,DE)
- 08:00 Public awareness of acute myocardial infarction symptoms and emergency response in community residents**
J Gao (Tianjin,CN)
- 08:00 Latent class cluster analysis of knowledge on acute myocardial infarction symptoms and risk factors in community residents**
Y Liu (Tianjin,CN)
- 08:00 Increased risk of COVID-19-associated death in people under 70 with cardiovascular disease compared to the general population- A nationwide, registry-based study from Norway**
R Forster (Bergen,NO)
- 08:00 Fast track triage for COVID-19 based on a population study: the SODA score.**
J Lopez-Pais (Santiago,ES)
- 08:00 Three-month cardiac outcomes of survivors of COVID-19 presenting to a district general hospital in West Hertfordshire, UK**
PK Pyae (Watford,GB)
- 08:00 Cost-effectiveness analysis of screening for first-degree relatives of patients with bicuspid aortic valve**
I Tessler (Jerusalem,IL)
- 08:00 Potential consequences of minimum quantities for Tf-TAVI in Germany - Insights from the German compulsory registry**
- 08:00 Racial/Ethnic differences in cardiovascular outcomes in a universal healthcare system: Insights from the CARTaGENE cohort**

08:00	Association between carotid distensibility and heart rate variability in older age	Withdrawn
08:00	Heart rate variability and incident type 2 diabetes mellitus K Wang (Rotterdam,NL)	
08:00	Compelled dichotomy of the cardiology training during COVID-19 time: green flag to the distant technologies G Neplueva (Saint Petersburg,RU)	
08:00	Lack of knowledge on acute stroke in children, adolescents and adults from public schools I Caitano Salles (- ,BR)	
08:00	Burden of cardiovascular diseases attributable to risk factors in Brazil: data from the Global Burden of Disease 2019 study	
08:00	Correlates between cardiovascular mortality and social determinants in Colombia, 2008 to 2017.	
08:00	Cost burden and cost-effective analysis of the nationwide implementation of the Quality in Acute Stroke Care protocol in Australia	
08:00	The experience of cardiovascular professional training across europe: preliminary results from the ESC young cardiovascular professionals survey S Castelletti (Milan,IT)	
08:00	Water hardness and its impact on arterial stiffness and carotid atherosclerotic burdens; insights from the 'Corinthia study'	
08:00	Impact of adverse events on quality of life and hospital costs in secondary cardiovascular disease prevention NMJ Lui (Oxford,GB)	
08:00	Prevalence of dyspnea and/or chest pain persistence at mid-term after COVID-19 infection: a systematic review and meta-analysis	
08:00	Global, regional, and national trends of Chagas disease epidemiology from 1990 to 2016: a comprehensive analysis of the global burden of disease study S Gomez Ochoa (- ,CO)	

Learning Objectives:

Categories:

Research Methodology ePosters

Session Number: 482

Chairpersons:

- 08:00 **Global awareness of myocardial infarction symptoms: a systematic review and meta-analysis.**

- 08:00 **Protocol design and preliminary evaluation of the REAL-Health Triple Aim, an open-cohort CVD-care optimisation initiative.**

- 08:00 **Temporal shift and accuracy of machine learning in heart transplant outcomes**

- 08:00 **Temporal trends in the inclusion of patient-reported outcomes in heart failure randomized trials published in high-impact medical journals: a systematic bibliometric review**

- 08:00 **Validity and reliability of a clinical non-exercise method for assessment of cardiorespiratory fitness using seismocardiography**

- 08:00 **RESONANCE Registry: rationale and design of the retrospective and prospective longitudinal, observational registry in pediatric and adult patients with recurrent pericarditis**

- 08:00 **Association between social deprivation status, age of presentation, and survival following ST-segment elevation myocardial infarction**
J Laffan (Dublin,IE)

- 08:00 **Global Representation of Heart Failure Clinical Trial Leaders and Collaborators: A Systematic Bibliometric Review 2000-2020**
J Zhu (- ,CA)

- 08:00 **Sex differences in cardiovascular research**
DN Millenaar (Homburg,DE)

- 08:00 **Trial leadership by women is associated with racial diversity among heart failure clinical trial participants: a systematic bibliometric review 2000-2020**

- 08:00 **A United States national analysis of basic demographics and commodities in sudden cardiac arrest**
I Yepes Moreno (Pembroke Pines,US)

- 08:00 **Correlation of peripheral pulse wave features and pulse rate variability parameters with hospitalization of COVID-19 patients - the scientific aspect of a tele-pulse oximetry project - study design**

- 08:00 **Interpretable uncertainty estimation for automated triage of 12-lead electrocardiogram using deep convolutional neural networks**
R Van De Leur (Utrecht,NL)

- 08:00** **Clinical characteristics and medical therapy in randomized clinical trial eligible-and-enrolled vs. eligible-but-not enrolled patients with ischaemic heart failure**
L Czyz (Krakow,PL)
- 08:00** **A new epidemiological approach using machine learning based on medico-administrative database: automatic identification and prevalence estimation in heart failure**
- 08:00** **Natural language processing tool for automatic diseases and drugs recognition from electronic health records in polish- pilot study.**
C Maciejewski (- ,PL)

Learning Objectives:

Categories:

Diseases of the Aorta ePosters

Session Number: 483

Chairpersons:

- 08:00 A retrospective chart review assessing adherence to surveillance imaging recommendations for thoracic aortic dilation and aneurysm**
- 08:00 Hybrid vascular intervention for multilevel peripheral arterial disease**
- 08:00 The effect of doxycycline on abdominal aortic aneurysm growth: a meta-analysis.**
M Patel (Westerville,US)
- 08:00 Early and mid-term outcomes of modified aortic root repair for acute Stanford type A aortic dissection**
L Wang (Beijing,CN)
- 08:00 Aortic tortuosity is related to aortic phenotype in patients with bicuspid aortic valve: a CT scan study of 83 cases.**
T Wallet (Montfermeil,FR)
- 08:00 Prognostic significance of polyvascular disease in patients admitted with acute decompensated heart failure: The ARIC Study Community Surveillance**
Z Chunawala (Rochester,US)
- 08:00 Neointimal hyperplasia regression using combined paclitaxel- mediated confocal dual pulse shock wave sonoporation therapy and catheter- based 90Y- mediated brachytherapy**
- 08:00 B- mode ultrasound- guided balloon angioplasty of occluded artery accompanied by combined focused ultrasound sonodynamic therapy and catheter- based 192Ir- mediated brachytherapy**
- 08:00 Involvement of FAK in aortic dissection: potential role in aortic interstitial cells**
- 08:00 Mitral annular disjunction in patients with syndromic hereditary aorthopathies**
ML Servato (Barcelona,ES)
- 08:00 Plasma desmosine as a biomarker in acute aortic syndrome**
- 08:00 Longitudinal changes in aortic distensibility in patients with Marfan syndrome**
- 08:00 Carotid plaque vulnerability assessed by combined shear wave elastography and ultrafast doppler compared to histology: the uf-plaque study**
G Goudot (Paris,FR)
- 08:00 Intermediate stage atherosclerosis regression using combined methotrexate- mediated ultrasound sonoporation therapy and gold nanoparticles- mediated X-rays- based Auger electron therapy**
- 08:00 Circumferential wall shear stress predicts co-localized progressive dilation in bicuspid aortic valve patients**
- 08:00 Long-term outcomes in patients undergoing transcatheter aortic valve implantation: insights on clinical outcomes and prognostic markers from a large cohort of patients**

- 08:00 Aortic diameter, pulse wave velocity, central aortic pulse pressure, left ventricular parameters, and diastolic dysfunction in patients with aortic aneurysm**
- 08:00 Changes in antithrombotic treatment in patients with abdominal aortic aneurysmal disease and incident atrial fibrillation: a population-based case-crossover analyses**
C Nicolajsen (Aabyhoej,DK)
- 08:00 Prognostic impact of atrial fibrillation under oral anticoagulation therapy in patients with type B acute aortic dissection**
N Ishizue (Sagamihara,JP)
- 08:00 Mitral annular disjunction and cardiovascular outcome in Marfan syndrome**
A Demolder (Ghent,BE)
- 08:00 Changes in health perception of COVID-19 among patients with aortic diseases: A longitudinal study between the first and second wave of the COVID-19 pandemic**
- 08:00 Myocardial revascularization in patients of high cardiac risk before hybrid surgical treatment on aortic arch**
DV Chernova (Saint Petersburg,RU)
- 08:00 Combined verteporfin- mediated photodynamic therapy and catheter- based 192Ir- mediated brachytherapy for neoatherosclerosis inhibition after laser angioplasty**
- 08:00 The midterm differential effects of heat-not-burn and conventional cigarettes on coronary flow, vascular function and oxidative stress are independent of nicotine levels.**
- 08:00 Venous leg symptoms in patients with migraine: a potential clue on the pathophysiology of migraine (Vein-Migraine Study)**
B Cuglan (Istanbul,TR)
- 08:00 Basigin genetic depletion reduces thoracic aortic aneurysm formation in marfan syndrome mice**
- 08:00 Narrowing of the neonatal region in the FBN1 gene**
M Brogger (A Coruna,ES)
- 08:00 Do morphological, haemodynamic and biomechanical parameters relate to aortic growth rate in chronic type B aortic dissection? A 4D flow CMR study**

Learning Objectives:

Categories:

Peripheral Vascular and Cerebrovascular Disease ePosters

Session Number: 484

Chairpersons:

- 08:00** **Impact of polyvascular disease on the prognosis of acute coronary syndrome**
N Laraba (Benaknoun,DZ)
- 08:00** **The efficacy and safety of dual-pathway inhibition therapy among patients with peripheral arterial disease - a meta-analysis**
JA Mapili (Manila,PH)
- 08:00** **Vascular complications following transcatheter transfemoral aortic valve implantation: sheath to femoral artery ratio derived from manufacturer size chart as a new predictor**
B Cakal (Istanbul,TR)
- 08:00** **Predictive role of protein convertase subtilisin kexin type-9 for fatty plaque morphology in asymptomatic intermediate carotid stenosis**
e Karacop (Istanbul,TR)
- 08:00** **Total thrombus-formation analysis system (T-TAS) can predict target lesion revascularization in patients undergoing endovascular therapy for critical limb ischemia**
N Kuyama (Kumamoto,JP)
- 08:00** **Temporal course of vascular response after fluoropolymer paclitaxel-eluting stent implantation for femoropopliteal artery lesions**
Y Tomoi (Kitakyushu,JP)
- 08:00** **Pre-dilatation prior to carotid artery stenting in very severe carotid artery stenosis: beneficial or detrimental?**
- 08:00** **The impact of malnutrition-inflammation-atherosclerosis (MIA) syndrome on the prognosis of elderly patients with chronic limb-threatening ischemia after endovascular therapy**
T Sonoda (Kagoshima,JP)
- 08:00** **Angioplasty of flow limiting stenosis improves left ventricular diastolic dysfunction in patients with peripheral artery disease**
S Baasen (Duesseldorf,DE)
- 08:00** **Stenting in the common femoral vein does not increase postthrombotic syndrome or rethrombosis**
SK Krause (Derqui,AR)
- 08:00** **Impact of peripheral angioplasty on wound oxygenation measured with near-infrared spectroscopy in patients with critical limb ischemia**
R Foerster (Duesseldorf,DE)
- 08:00** **Diagnostic value of Achilles tendon thickness normalised to body surface area in relation to asymptomatic peripheral arterial disease**
V Genkel (Chelyabinsk,RU)
- 08:00** **Efficacy and safety of inclisiran in patients with established cerebrovascular disease: pooled, post hoc analysis of the ORION-9, ORION-10 and ORION-11, phase 3 randomised clinical trials**
W Koenig (Munich,DE)
- 08:00** **Effects of semaglutide on functional capacity in patients with type 2 diabetes and peripheral arterial disease: rationale and design of the STRIDE trial**
H Sillesen (Copenhagen,DK)
- 08:00** **Regional differences in outpatient care of peripheral artery diseases in Germany**

- 08:00 Intravascular lithotripsy in calcified peripheral lesions: the real-world single-center JEN-experience**
- 08:00 Effects of hormone replacement therapy on endothelial function, arterial stiffness and myocardial deformation in women with Turner syndrome**
- 08:00 The association of malnutrition with mortality and amputation outcomes in critical limb ischemia: a systematic review**
A Brice (- ,US)
- 08:00 Clinical profile of patients with peripheral artery disease treated with high-pressure intermittent pneumatic compression in st. lukes medical center-quezon city: a 6-year retrospective cohort study**
K Acosta (Quezon City,PH)
- 08:00 Elevated lipoprotein(a) level predicts repeated peripheral revascularization**
N Tmoyan (Moscow,RU)
- 08:00 The efficacy of paclitaxel drug-eluting balloon angioplasty versus standard balloon angioplasty in stenosis of native hemodialysis arteriovenous fistulas**
P Cisneros Clavijo (Quito,EC)
- 08:00 Exercise cardiac MRI reveals significant impairment in cardiac function in patients with post-thrombotic ilio caval venous outflow obstruction**
R Morris (- ,GB)
- 08:00 Impact of COVID-19 on angioplasty service and outcome of patients treated for critical limb ischaemia**
C Heiss (Guildford,GB)
- 08:00 Cardiology cathlab-based management of thrombotic carotid stenoses in acute ischaemic stroke: Tools, techniques, local stroke unit collaboration, challenges and patient outcomes.**

Learning Objectives:

Categories:

Stroke ePosters

Session Number: 485

Chairpersons:

- 08:00 Secondary prevention of cerebrovascular events in patients with "asymptomatic" atherosclerotic stenosis of the vertebral arteries**
D Maximkin (Moscow,RU)
- 08:00 Secondary prevention of cerebrovascular events in patients with "asymptomatic" atherosclerotic stenosis of the vertebral arteries and unfavorable prognostic factors of chronic cerebral ischemia**
D Maximkin (Moscow,RU)
- 08:00 Prognostic nutrition index predicts outcomes in critically ill stroke patients: a database-based cohort study**
B Zhang (- ,CN)
- 08:00 Constipation is associated with worse prognosis of thrombolytic AIS: a single-center prospective study**
B Zhang (- ,CN)
- 08:00 Regular hours vs. on-call endovascular interventions for acute stroke treatment: initial single-center experience by interventional cardiologists**
K Piayda (Frankfurt,DE)
- 08:00 The learning curve for interventional cardiologists performing acute stroke interventions**
K Piayda (Frankfurt,DE)
- 08:00 Association of 12204590 polymorphism with the development of acute cerebrovascular event**
A Chernova (Krasnoyarsk,RU)
- 08:00 Association of rs12122341 polymorphism with the development of acute cerebrovascular event**
A Chernova (Krasnoyarsk,RU)
- 08:00 Association of rs11196288 polymorphism with the development of acute cerebrovascular event**
A Chernova (Krasnoyarsk,RU)
- 08:00 Association of rs10507391 polymorphism with the development of acute cerebrovascular event**
A Chernova (Krasnoyarsk,RU)
- 08:00 Association of rs3025058 polymorphism with the development of acute cerebrovascular event**
A Chernova (Krasnoyarsk,RU)
- 08:00 High within-visit systolic blood pressure variability is associated with stroke and diabetes**
A Visaria (- ,US)
- 08:00 Haplotype analysis of polymorphic genes of lipid metabolism and its association with an increased risk of the first non-cardioembolic ischemic stroke**
V Shishkova (Moscow,RU)
- 08:00 The type and dosage of exercise therapy to facilitate the recovery from stroke for balance, walking and quality of life: A systematic review and meta-analysis of randomized controlled trials**
R Amansonwe (- ,BJ)
- 08:00 Features of structure and predictors of cognitive disorders in patients after cardiac surgery**
TD Danilevych (Vinnitsa,UA)

- 08:00** **Substantially elevated thromboembolic and bleeding risks in patients with ami following acute/subacute stroke events**
Y Kataoka (Suita,JP)
- 08:00** **Quantitative flow ratio for the functional assessment of extracranial internal carotid artery stenosis**
- 08:00** **Differences in Left atrial stain, endothelial glycocalyx and arterial elasticity between ESUS, lacunar and atherosclerotic type of stroke.**
- 08:00** **Outcome and clinical profile of patients with newly detected atrial fibrillation and cardioembolic stroke**
S Garkina (Saint-Petersburg,RU)
- 08:00** **The comparison of clinical features and clinical outcomes in stroke patients with atrial fibrillation and non-atrial fibrillation: a hospital-based stroke registry in Indonesia**
NH Karunawan (Yogyakarta,ID)
- 08:00** **Detection and prevalence of intra-cardiac thrombus in patients with embolic stroke of undetermined source**
I Nardi Agmon (Petah Tikva,IL)
- 08:00** **Fingerprint of novel circulating microRNAs identify patients with stroke-embolic stroke of undetermined source**
- 08:00** **Risk stratification for ischemic stroke and major bleeding in patients without atrial fibrillation -application of CHA2DS2-VASc and HAS-BLED scores-**

Learning Objectives:

Categories:

Risk stratification in heart disease: the power of molecular tools

Session Number: 486

Chairpersons: B Marrow (Newcastle Upon Tyne, GB) - M Russo (Napoli, IT)

12:00 State-of-the-art in risk stratification in heart disease: the power of molecular tools
WJ McKenna (London,GB)

**12:15 Common genetic variants improve risk stratification after atrial switch operation
for transposition of the great arteries**

**12:30 Proteomics profiling reveals distinct molecular subtypes of hypertrophic
cardiomyopathy with differential risks of major adverse cardiovascular events**
L Liang (New York,US)

Learning Objectives:

Categories: Abstract-Based Programme

SARS-CoV-2 in the heart: a reason to worry?**Session Number: 487**Chairpersons: L Pierard (Liege, BE) - MD Radu (Copenhagen, DK)

- 20:15 Patterns of cardiac involvement in patients with long COVID syndrome using cardiovascular magnetic resonance**
V Puntmann (Frankfurt,DE)
- 20:24 Myocardial involvement in covid-19: data from 102 unselected autopsies during the first wave of pandemic**
P Platonov (Lund,SE)
- 20:33 Type of myocardial injury and mid-term outcomes in patients with COVID-19**
- 20:42 Postcovid myocarditis diagnosed by endomyocardial biopsy and/or magnetic resonance imaging 2-9 months after acute COVID-19**
O Blagova (Moscow,RU)
- 20:51 Prognostic value of myocardial injury biomarker in COVID-19: a systematic review and meta-analysis**

Learning Objectives:

Categories: Abstract-Based Programme, COVID-19

Frontiers in prognostic research in hypertrophic cardiomyopathy

Session Number: 488

Chairpersons: I Olivotto (Firenze, IT) - E Biagini (Bologna, IT)

- 20:15 Outcomes and phenotypic expression of rare variants in hypertrophic cardiomyopathy genes in over 200,000 adults**
A de Marvao (London,GB)
- 20:24 Clinical characteristics and natural history of pre-adolescent non-syndromic hypertrophic cardiomyopathy**
- 20:33 Clinical course and outcome of pregnancy in patients with hypertrophic cardiomyopathy**
C Fumagalli (Florence,IT)
- 20:42 Does age influence follow-up after alcohol septal ablation in hypertrophic obstructive cardiomyopathy?**
A Batzner (Wuerzburg,DE)
- 20:51 Prediction of major adverse cardiovascular events in patients with hypertrophic cardiomyopathy using proteomics profiling**
YJ Shimada (Fort Lee,US)

Learning Objectives:

Categories: Abstract-Based Programme

Highlights from the Young in emerging cardiovascular interventions

Session Number: 489

Chairpersons: RA Byrne (Dublin, IE) - A Kastrati (Munche, DE)

- 07:15 Pericardiocentesis vs conservative management in patients with asymptomatic, chronic, large, idiopathic, c-reactive negative pericardial effusion**
G Lazaros (Athens,GR)
- 07:24 TAVI SMALL 2 - Supra-annular and intra-annular TAVI in small aortic annuli: an international multicenter registry**
PP Leone (Rome,IT)
- 07:33 Efficacy and safety of percutaneous pulmonary artery subtotal occlusion and CTO intervention in chronic thromboembolic pulmonary hypertension**
- 07:42 Radiofrequency ablation of the pulmonary artery - a new endovascular method for treatment of residual chronic thromboembolic pulmonary hypertension after pulmonary endarterectomy**
- 07:51 Multicentre experience with the transcatheter valve repair system for tricuspid regurgitation**
M Wild (Huenibach,CH)

Learning Objectives:

Categories: Abstract-Based Programme

A deep dive into mitral regurgitation**Session Number: 490**Chairpersons: D Messika Zeitoun (Ottawa, CA)

- 20:15** **Circulating transforming growth factor-beta1 and progression of the mitral valve prolapse: fifteen-year follow-up**
E Malev (Saint-Petersburg,RU)
- 20:24** **Trends in incidence and mortality from non-rheumatic degenerative mitral valve disease across europe, over the past three decades.**
B Al-khayatt (London,GB)
- 20:33** **The MIDA Quantitative mortality risk score: prognostic model in floppy mitral valves**
B Essayagh (Cannes,FR)
- 20:42** **Myocardial efficiency in severe asymptomatic primary mitral regurgitation: relation to quantitative measures of regurgitation**
- 20:51** **Clinical and haemodynamic effects of percutaneous edge-to-edge mitral valve repair in atrial versus ventricular functional mitral regurgitation**
M Claeys (Edegem /Antwerpen,BE)

Learning Objectives:

Categories: Abstract-Based Programme

Aortic stenosis: from 'intelligent stethoscope to TAVI'**Session Number: 491**Chairpersons: W Wojakowski (Katowice, PL) - M Urena (Paris, FR)

- 07:15 Artificial intelligence-based stethoscope for the diagnosis of aortic stenosis**
T Ghanayim (Haifa,IL)
- 07:24 Gender disparities in the treatment of aortic stenosis - an analysis of the united states national inpatient sample (2009-2018)**
I Erinne (New Brunswick,US)
- 07:33 TAVR in patients with low-flow low-gradient aortic stenosis - outcome data after three years from one large centre**
J Steffen (Munich,DE)
- 07:42 Hypo-attenuated leaflet thickening is associated with structural valve deterioration following transcatheter aortic valve replacement.**
H Rashid (Mulgrave,AU)
- 07:51 Cerebral protection in TAVR- can we do without? Impact on stroke rate, length of hospital stay and 12-month mortality**

Learning Objectives:

Categories: Abstract-Based Programme

Predicting outcomes in patients with infective endocarditis

Session Number: 492

Chairpersons:

- 07:15 Predictors of mortality in patients with left-side infective endocarditis, the esc-eorp euro-endo registry**
- 07:24 Epidemiology of infective endocarditis in Hong Kong, 2000-2019**
H Li (- ,HK)
- 07:33 Predictors of mortality in patients with right-side and cardiac device-related infective endocarditis, the esc-eorp euro-endo registry**
- 07:42 Independent risk factors of mortality in streptococcal infective endocarditis**
S Chamat-Hedemand (Copenhagen,DK)
- 07:51 SHARPEN score: an independent predictor of survival after infective endocarditis discharge.**
S Giusti Alves (Porto Alegre,BR)

Learning Objectives:

Categories: Abstract-Based Programme

SARS-CoV-2 in pulmonary circulation: does it do as much harm as in the alveoli?**Session Number: 493**Chairpersons: P Pruszczyk (Warsaw, PL) - S Sert (Pendik-Istanbul, TR)

- 07:15 Major arterial and venous thromboembolic complications in patients with covid-19**
N Lalor (Buenos Aires,AR)
- 07:24 The coronavirus disease 2019 pandemic among adult congenital heart disease patients: findings of a one-year multicentric, international study**
FJ Ruperti Repilado (Bern,CH)
- 07:33 Impact of COVID-19 pandemics upon pulmonary hypertension patients: insights from BNP-PL national database**
- 07:42 Comparison of echocardiographic parameters of patients with COVID-19 pneumonia in hospital and three months after discharge**
E Yaroslavskaya (Tyumen,RU)
- 07:51 Increased incidence of Persistent Pulmonary Hypertension of the Newborn following third trimester maternal COVID-19 infection.**
A Ishqeir (- ,IL)

Learning Objectives:

Categories: Abstract-Based Programme, COVID-19

Advances in congenital heart disease: learning from registries and advanced imaging**Session Number: 494**Chairpersons: R Bedair (London, GB) - A El Fiky (, EG)

- 20:15 Chronic kidney disease in patients with congenital heart disease - a nationwide cohort study**
M Gillesen (Gothenburg,SE)
- 20:24 Long-term mortality after myocardial infarction and stroke in a simple congenital heart disease population**
- 20:33 Infective endocarditis in adult patients with congenital heart disease: results from the ESC EORP EURO-ENDO registry**
J Van Melle (Groningen,NL)
- 20:42 Echocardiography-computed tomography fusion imaging: a new approach for congenital heart disease**
- 20:51 Prognostic implications of left heart diastolic dysfunction in adults with coarctation of aorta**
R Katta (- ,US)

Learning Objectives:

Categories: Abstract-Based Programme

Pulmonary arterial hypertension: risk stratification guides for new treatments and informed outcomes**Session Number: 495**Chairpersons: J Pepke-Zaba (Cambridge, GB) - S Albinni (Vienna, AT)

- 07:15 Non-invasive risk prediction based on right ventricular function in patients with pulmonary arterial hypertension**
V Qaderi (- ,DE)
- 07:24 Inclusion of echocardiographic measure of right ventricular function in the non-invasive French pulmonary arterial hypertension risk stratification method**
C Fauvel (Rouen,FR)
- 07:33 Twenty-year experience and outcomes in a national paediatric pulmonary hypertension service**
A Constantine (London,GB)
- 07:42 Safety, tolerability, and pharmacokinetics (PK) of treprostinil palmitil inhalation powder (TPIP): a phase 1, randomised, double-blind, single- and multiple-dose study**
F Ismat (Bridgewater,US)
- 07:51 Treatment effect of selexipag on time to disease progression when initiated early in pulmonary arterial hypertension (PAH) patients: GRIPHON and TRITON pooled analysis**
JG Coghlan (London,GB)

Learning Objectives:

Categories: Abstract-Based Programme

Congress committee e-posters choice in valvular

Session Number: 496

Chairpersons:

IM Lang (Vienna, AT) - J De Backer (Ghent, BE) - A Vahanian (Vincennes, FR) - C
Gavina (Matosinhos, PT) - O De Backer (Copenhagen, DK) - MHS El Sayed (Cairo,
EG) - H Nef (Giessen, DE) - PM Elliott (London, GB)

- 08:00** **Incessant pericarditis as a risk factor for complicated pericarditis and hospital admission.**
M Imazio (Udine,IT)
- 08:00** **Case fatality rate and fatal bleeding complication in patients with pulmonary embolism and patent foramen ovale**
L Hobohm (Mainz,DE)
- 08:00** **Leaflet configuration and residual tricuspid regurgitation after transcatheter edge-to-edge tricuspid repair**
A Sugiura (Bonn,DE)
- 08:00** **Percutaneous edge-to-edge therapy with PASCAL or MitraClip: a multicenter propensity score matched comparison**
- 08:00** **Percutaneous transluminal pulmonary angioplasty for hypertensive pulmonary Takayasu's arteritis**
Y-P Yu-Ping (Beijing,CN)
- 08:00** **Clinical features and survival in pulmonary Takayasu's arteritis associated pulmonary hypertension: A national registry study**
- 08:00** **Exaggerated elastin turnover in childhood and adolescence in Marfan syndrome - correlation with age - new insights from the AIMS trial**
Z Iskandar (Dundee,GB)
- 08:00** **Effects of sacubitril/valsartan in patients with a systemic right ventricle: early evidence of exercise tolerance and systolic function improvement**
- 08:00** **Pulmonary valve replacement in women with repaired tetralogy of Fallot. Contrasting indications compared with men.**
R Ladron (Valladolid,ES)
- 08:00** **Abnormal left-sided blood volume, wall shear stress & energy loss in patients with repaired Tetralogy of Fallot identified by 4D flow MRI**
- 08:00** **Prognostic relevance of thyroid disease in adults with congenital heart disease**
F Fusco (Napoli,IT)
- 08:00** **Cardiac MRI risk factors predict atrial arrhythmia development in repaired tetralogy of fallot patients**
B Pinsker (- ,US)
- 08:00** **Morphological and secretory dysfunction of left atrium in Marfan syndrome**
L Ernst (- ,DE)
- 08:00** **Patients with mild congenital heart defects and atrial arrhythmias: anticoagulate all or follow the CHA2DS2-VASc score?**
JF Heidendaal (Amsterdam,NL)
- 08:00** **Predictors of adverse clinical outcome after hospitalisation for decompensated heart failure in ACHD patients**
- 08:00** **Risk of mortality across the spectrum of untreated aortic stenosis**
J Strom (- ,US)

- 08:00 Cardiac damage staging classification and prognosis in low flow low gradient severe aortic stenosis**
A Snir (Sydney,AU)
- 08:00 Novel risk model for one-year mortality and guidance of management strategy in isolated severe secondary tricuspid regurgitation**
TKM Wang (Cleveland,US)
- 08:00 Predictors of increased mortality in untreated moderate aortic stenosis**
- 08:00 Superimposed tissue formation in human aortic valve disease: differences between stenotic and regurgitant valves**
BPT Kruithof (Leiden,NL)
- 08:00 Left ventricular myocardial work in patients with high gradient severe symptomatic aortic stenosis**
G Sa Mendes (Lisboa,PT)
- 08:00 Prognostic value of left ventricular ejection fraction and symptom severity in patients with moderate aortic stenosis.**
J Stassen (Hasselt,BE)
- 08:00 Histological and molecular characterization of human aortic stenosis: a matter of sex**
L Matilla Cuenca (- ,ES)
- 08:00 Echocardiographic global longitudinal strain as a marker of myocardial fibrosis predicts outcomes in aortic stenosis**
C Chin (Singapore,SG)
- 08:00 Staging cardiac damage in aortic valve disease: one size fits all?**
G Silva (Vila Do Conde, Porto,PT)
- 08:00 Stroke volume index and outcomes in low gradient severe aortic stenosis**
A Snir (Sydney,AU)
- 08:00 Lipoprotein(a) is associated with incidence but not progression of aortic valve calcium**
- 08:00 Trends in mortality from aortic stenosis in Europe: 2000-2017**
A Hartley (Swindon,GB)
- 08:00 Relative prevalence and outcomes of low gradient severe aortic stenosis in routine clinical practice**
A Snir (Sydney,AU)
- 08:00 Sex Difference in Aortic Valve Fibrosis Assessed by Contrast-enhanced Computed Tomography in Severe Aortic Stenosis**
P Poggio (Milan,IT)
- 08:00 Prognostic implications of changes in echocardiographic parameters during follow-up in asymptomatic severe aortic stenosis managed conservatively**
E Minamino-Muta (Kyoto,JP)
- 08:00 Sex-differences in left ventricular remodeling and mechanics after aortic valve surgery in patients with severe aortic valve disease**
GK Singh (Leiden,NL)
- 08:00 The role of calcification biomarkers in the formation of aortic stenosis**

- 08:00 Paradoxical increase in ambulatory systolic blood pressure in coarctation of aorta as compared to idiopathic hypertension**
M Iftikhar (- ,US)
- 08:00 Multisystem Inflammatory Syndrome in Children (MIS-C) after SARS-CoV-2 infection: early assessment with strain echocardiography and cardiac MRI**
D Sirico (Milano,IT)
- 08:00 Cause of death in adult patients with congenital heart disease: experiences of a tertiary centre**
D Kecskemeti (Budapest,HU)
- 08:00 Exercise stress echocardiography in children and teenagers with congenital heart diseases**
M Avesani (Padova,IT)
- 08:00 Cross sectional imaging is transforming the diagnosis of rare congenital defects**
E Orchard (Oxford,GB)
- 08:00 Immediate & medium-term results of balloon dilatation in native coarctation of aorta: a reasonable initial management strategy**
AK Singal (New Delhi,IN)
- 08:00 Trends in the use of mechanical and bioprosthetic aortic valve replacement in the era of transcatheter aortic valve replacement**
E Hiltner (New Brunswick,US)
- 08:00 Artificial intelligence to improve decision making in transcatheter aortic valve implantation**
- 08:00 Mortality and heart failure in patients with severe tricuspid regurgitation. Impact of RV volumes and function by CMR**
R Hinojar Baydes (Madrid,ES)
- 08:00 Sinus of Valsalva Dimension and Clinical Outcomes in Patients Undergoing Transcatheter Aortic Valve Implantation**
D Tomii (Bern,CH)
- 08:00 Percutaneous Bioprosthetic Aortic Valve Durability: results a single center after ten years of follow-up ago.**
- 08:00 TAVI via alternative access routes: patient selection and 10-year center experience**
- 08:00 Subsequent open-cardiac surgery after transcatheter aortic valve implantation- indications and outcomes**
T Berger (- ,DE)
- 08:00 Long-Term survival and functional status in patients with elevated mitral valve pressure gradient after transcatheter mitral valve repair**
B Koell (Hamburg,DE)
- 08:00 Comparison of direct oral anticoagulants to vitamin-K antagonists as treatment for leaflet thrombosis after Transcatheter Aortic Valve Implantation (TAVI)**
P Ferstl (Erlangen,DE)

- 08:00 All-cause mortality and cardiovascular death in 52091 patients with hypertrophic cardiomyopathy. A nationwide cohort study**
L Fauchier (Tours,FR)
- 08:00 Plasminogen activator inhibitor-1 (PAI-1) is anti-fibrogenic in human inflammatory cardiomyopathy**
C Baumeier (Berlin,DE)
- 08:00 The direct and indirect effect of the COVID-19 pandemic on patients with cardiomyopathy**
- 08:00 Coronary haemodynamics associated with left ventricular hypertrophy in aortic stenosis and hypertension**
A Ratneswaren (London,GB)
- 08:00 Serum autotaxin level predicts future cardiac events in patients with dilated cardiomyopathy**
- 08:00 Myocardial injury in patients hospitalized for SARS-CoV19: a maker or a marker of prognosis?**
C Montalto (Pavia,IT)

Learning Objectives:

Categories: Abstract-Based Programme

Interventional Cardiology ePosters

Session Number: 497

Chairpersons:

- 08:00 Vitamin D deficiency predicts the no-reflow phenomenon in STEMI patients undergoing primary percutaneous coronary intervention.**
M Verdoia (Biella,IT)
- 08:00 Effectiveness and prognostic value of intravascular imaging in patients with left main coronary artery stenosis and heart failure**
D Maximkin (Moscow,RU)
- 08:00 Late outcomes of percutaneous coronary interventions (PCI) and subsequent life-quality in patients younger 40 years of age**
- 08:00 Clinical outcomes of prolonged waiting times in patients with aortic valve stenosis scheduled for transcatheter aortic valve implantation**
K Stathogiannis (Athens,GR)
- 08:00 Rapid pacing is an independent predictor for high implantation depth using self-expandable devices in TAVR**
V Veulemans (Duesseldorf,DE)
- 08:00 Influence of the speed of deflation of the stent delivery system in the myocardial blush and st-segment resolution in primary angioplasty: a randomized study**
- 08:00 Biodegradable polymer drug eluting stents versus durable polymer drug eluting stents for percutaneous coronary intervention**
M Kheifets (Kfar Yona,IL)
- 08:00 Serum lactic acid level predicts poor myocardial perfusion and in-hospital outcomes in patients undergoing primary percutaneous coronary intervention**
M Liu (Shanghai,CN)
- 08:00 Evaluation of the prophylactic role of pethidine in avoiding radial artery spasm during transradial cardiac interventions.**
N Giannainas (Eleusina,GR)
- 08:00 Extracardiac coronary steal induced by upper limb hyperemia: a feature of internal mammary artery arteriogenesis**
MR Bigler (Bern,CH)
- 08:00 Clinical impact of intravascular ultrasound guidance in patients of st-segment elevation myocardial infarction undergoing percutaneous coronary intervention with drug eluting stent**
B Kim (Yangu,KR)
- 08:00 In hospital outcomes of orbital/rotational coronary atherectomy in diabetic vs non-diabetic population: insights from the nationwide inpatient sample**
K Kurpad (Livingston,US)
- 08:00 Urgent vs non-urgent transcatheter aortic valve implantation outcomes**
- 08:00 Periprocedural and short-term stroke after transcatheter aortic valve implantation - what are the outcomes and how can we predict it**
- 08:00 FFR saline: simplifying coronary physiology**
- 08:00 Comparison of intracoronary lithoplasty and rotablation for the treatment of severely calcified vessels: the ROTA.shock trial**

- 08:00** **Transcatheter mitral valve repair (TMVR) using MitraClip in patients younger than 65 years; a multicenter analysis of 2-years outcomes**
H Mohammed (Minia,EG)
- 08:00** **CatLet score and Clinical CatLet score as predictors of long-term outcomes for patients with acute myocardial infarction undergoing delayed percutaneous coronary intervention**
JP Xu (Gusu,CN)
- 08:00** **Effective reduction of scatter radiation for operator and assistant during coronary procedures with a suspended radiation protection system in a per-procedure live-dosimetry analysis**
M Brandt (Salzburg,AT)
- 08:00** **Value of CHA2DS2-VASc score and safe contrast volume for early detection of contrast induced nephropathy after percutaneous coronary intervention**
W Khalil (Zagazig,EG)
- 08:00** **Short- and intermediate-term mortality in women and men after surgical versus interventional revascularization and aortic valve replacement**
- 08:00** **Single antiplatelet therapy versus dual antiplatelet therapy after transcatheter aortic valve replacement: a meta-analysis of randomized controlled trials**
G Sayat (Quezon City,PH)
- 08:00** **Radial versus femoral approach for rotational atherectomy - technical aspects and procedural outcomes**
S Bargon (Erlangen,DE)
- 08:00** **Long-term durability of transcatheter aortic valve replacement: outcomes from a contemporary cohort from a tertiary reference center at 5-years and beyond**
G Sa Mendes (Lisboa,PT)
- 08:00** **Outcomes after percutaneous coronary intervention (PCI) in patients with prior coronary artery bypass grafting (cabg)**
N Cohen (- ,AU)
- 08:00** **Mitral regurgitation severity assessment after percutaneous edge-to-edge mitral valve repair: guidelines-recommended integration versus volumetric assessment**
- 08:00** **Comparison between a novel sirolimus-eluting bioresorbable scaffold with everolimus-eluting metallic stent in patients with coronary artery disease: three-year follow-up from the neovas rct study**
Y Han (Shenyang,CN)
- 08:00** **Evaluation of the crocin effect on the contrast induced nephropathy following coronary angiography or angioplasty: a randomized controlled trial**
S Esfandiary (Kermanshah,IR)
- 08:00** **CHA2DS2 -VASc score as a predictor for contrast-induced nephropathy in patients with acute coronary syndrome undergoing percutaneous coronary intervention**
M Elkholy (Cairo,EG)
- 08:00** **Impact of cusp-overlap view for TAVR with self-expandable valves on 30-day conduction disturbances**
O Mendiz (San Isidro,AR)

- 08:00 A risk predictive model for coronary perforation in patients undergoing percutaneous coronary intervention - APOLLO-XI score**
A Jaspattananon (Bangkok,TH)
- 08:00 Distal radial access in the right anatomical snuffbox for coronary angiography and interventions: a prospective observational study**
K Chatterjee (Southampton,GB)
- 08:00 Long-term follow up after percutaneous PFO closure. Does baseline PFO anatomy affect the long term procedural result and the severity of residual shunt?**
- 08:00 Anticoagulant profile of supplementary-dose enoxaparin in patients undergoing prolonged percutaneous coronary intervention**
Z Liu (Beijing,CN)
- 08:00 Interventional cardiology in times of COVID-19: impact on a tertiary centre**
- 08:00 Association between fragmented QRS and post-procedural rhythm disturbances in patients who underwent transcatheter aortic valve implantation with CoreValve system**
- 08:00 Direct comparison of bioabsorbable and biodurable polymer everolimus-eluting stent in neointimal stent coverage and in-stent thrombus using high-resolution angioscope**
Y Nojima (Kawachinagano,JP)
- 08:00 LGE-cMRI assessment of volume controlled reperfusion method in primary percutaneous coronary intervention in patients with ST elevated myocardial infarction**
J He (Beijing,CN)
- 08:00 BASEX thromboresistant prostheses in cardiovascular surgery**
RA Abdulgasanov (Moscow,RU)
- 08:00 The impact of echo-guided vs fluoroscopic femoral puncture on transcatheter aortic valve implantation-related vascular complications**
I Rodrigues (- ,PT)
- 08:00 The relationship between adverse outcomes and a full spectrum of ejection fraction in patients without acute myocardial infarction undergoing percutaneous coronary intervention**
- 08:00 Residual quantitative flow ratio to estimate post-intervention fractional flow reserve**
P A Van Diemen (Amsterdam,NL)
- 08:00 In-hospital clinical outcomes of percutaneous coronary intervention for patients deemed ineligible for surgical revascularization**
- 08:00 Impact of different definitions of periprocedural reinfarction on long-term mortality after left main PCI in patients with acute myocardial infarction**
- 08:00 An heart team stroke prevention decision-making process comparing percutaneous endocardial and thoracoscopic epicardial left atrial appendage occlusion**

- 08:00 Outcomes of transfemoral-transcatheter aortic valve replacement with sapien-3 valve in liver cirrhosis patients**
H Lak (Cleveland,US)
- 08:00 Impact of doppler velocity index after transcatheter aortic valve replacement using sapien-3 valve- a single centre experience**
H Lak (Cleveland,US)
- 08:00 Impact of new-onset left bundle branch block on clinical and echocardiographic outcomes after tavr with sapien-3 valve**
H Lak (Cleveland,US)
- 08:00 Impact of pacing-related differences on clinical and echocardiographic outcomes after tavr with sapien-3 valve**
H Lak (Cleveland,US)
- 08:00 Antithrombotic strategies in elderly patients with atrial fibrillation revascularized with drug-eluting stents: PACO-PCI (EPIC-15) registry**
JM De La Torre Hernandez (Santander,ES)
- 08:00 Percutaneous edge-to-edge mitral repair in the presence of mitral annulus calcification**
- 08:00 Prospective application of a risks-adjusted antithrombotic protocol in elderly patients treated with the last generation of everolimus-eluting stents. The SIERRA-75 (EPIC-05) registry**
JM De La Torre Hernandez (Santander,ES)
- 08:00 Unprotected left main coronary artery stenting: true vs. non true bifurcation lesions; a single-centre experience**
A Santucci (Corciano,IT)
- 08:00 Identifying predictive risk factors for permanent pacemaker implantation up to 30 days post-TAVI**
J Li (- ,GB)
- 08:00 Long term follow up of elderly patients treated with self-expanding transcatheter aortic valve implantation; a single center experience.**
J Rodriguez Nieto (Cordoba,ES)
- 08:00 Coronary perforations and its clinical impact during CTO recanalization: a 2054 patients pooled analysis from the Latin American (LATAM) CTO registry**
- 08:00 Frequency and predictors of coronary angiography and percutaneous coronary intervention related stroke**
R Januszek (Krakow,PL)
- 08:00 Efficacy of coronary intravascular lithotripsy in coronary stenosis with severe calcification: a systematic review and meta-analysis**
N Ktenopoulos (Patras,GR)
- 08:00 Clinical outcomes following isolated transcatheter tricuspid valve repair: a meta-analysis and meta-regression study**
- 08:00 Transesophageal echocardiography versus intracardiac echocardiography-guided left atrial appendage occlusion: a comparative analysis**
A Grazina (Lisbon,PT)

- 08:00** **Gender distribution in patients treated with rotablation - analysis of 5,177 percutaneous coronary interventions based on a large national registry from between 2014 and 2020**
R Januszek (Krakow,PL)
- 08:00** **Real-world experience with the cusp overlap deployment technique for procedural optimization during self-expanding transcatheter aortic valve implantation: our city best practice trial**
O Maier (Neuss,DE)
- 08:00** **Electrocardiographic predictors of recovery from pacemaker dependency after transcatheter aortic valve implantation: a meta-analysis**
O Maier (Neuss,DE)
- 08:00** **Duration of dual antiplatelet therapy and long-term outcomes following drug-eluting balloon or drug-eluting stents for treatment of in-stent restenosis (DAPT-Dragon Registry)**
R Januszek (Krakow,PL)
- 08:00** **National prevalence and outcomes of coronary chronic total occlusion revascularization in patients with congestive heart failure**
S Aldrugh (Worcester,US)
- 08:00** **National prevalence and outcomes of different mitral valve interventions for mitral regurgitation among patients with cardiogenic shock: an analysis of the national readmission database 2010-2018**
S Aldrugh (Worcester,US)
- 08:00** **Characterization of actionable bleeding and thrombotic risk trade-offs in patients undergoing percutaneous coronary intervention**
D Calderone (Milazzo,IT)
- 08:00** **Transcatheter aortic valve implantation in degenerated trans-catheter and surgical bioprosthetic aortic valve**
R Chanchai (Chiang Mai,TH)
- 08:00** **Impact of diabetes on outcome with drug-coated balloons versus drug-eluting stents: The BASKET-SMALL 2 trial**
- 08:00** **The clinical outcome of fractional flow reserve based coronary revascularization strategy of the patients on hemodialysis**
K Hirobe (- ,JP)
- 08:00** **Edge-to-edge transcatheter valve repair of atrial functional mitral regurgitation positively influences atrial pathology**
A Petrescu (Mainz,DE)
- 08:00** **Clinical outcomes with drug-eluting stents, bare-metal stents, and bioresorbable scaffolds implanted in patients with AMI treated with primary PCI. Data from the Prague-18 trial.**
O Hlinomaz (Brno-Zebetín,CZ)
- 08:00** **The timing and mechanism of high-grade AV block post-TAVI: knowing your enemy**
- 08:00** **Permanent pacemaker implantation post transcatheter aortic valve replacement- the role of pacing burden**
- 08:00** **Effects of a diuretic regimen on body weight and echocardiographic parameters**

of the tricuspid valve in patients scheduled for transcatheter tricuspid annuloplasty.

M Landendinger (Erlangen,DE)

08:00 Association between recovered acute kidney injury within 48hours and mortality in patients following coronary angiography: a cohort study

08:00 Feasibility of coronary angiography after TAVR

G Silva (Vila Do Conde, Porto,PT)

08:00 Valve-in-valve transcatheter aortic valve replacement or re-surgical aortic valve replacement in degenerated bioprostheses: a systematic review and meta-analysis of short and mid-term results

08:00 Prognostic impact of the presence and management of coronary artery disease in patients undergoing TAVI

PM Custodio (Lisboa,PT)

08:00 Percutaneous left atrial appendage occlusion: impact on left atrial deformation indices

A Dippenaar (Cape Town,ZA)

08:00 Disproportionate mitral regurgitation as a predictor of functional outcomes following edge-to-edge repair with the MitraClip system

C Maltsinioti (- ,DE)

08:00 Real-world comparison of the last generation balloon-expandable and self-expanding valves in patients undergoing TAVI.

K Kalogeras (Athens,GR)

08:00 Intravascular ultrasound for valve frame expansion and orifice area measurement as well as paravalvular leak assessment during transcatheter aortic valve replacement

L Kalinczuk (Warsaw-Anin,PL)

08:00 Impact of leaflet-to-annulus index on residual tricuspid regurgitation following transcatheter edge-to-edge tricuspid valve repair

T Tanaka (Bonn,DE)

08:00 Efficacy and safety of local intracoronary drug delivery in the distal coronary bed as treatment of no-reflow phenomenon during percutaneous coronary intervention

S Graidis (Thessaloniki,GR)

08:00 Impact of severe mitral annular calcification on paravalvular leak after transcatheter aortic valve implantation

08:00 Pacemaker implantation rate after TAVI with the latest generation balloon-expandable valve SAPIEN 3 Ultra

F De Torres Alba (Muenster,DE)

08:00 Single stenting versus double stenting technique in true bifurcation coronary lesions

M Ribeiro da Silva (Vila Nova De Gaia,PT)

08:00 Percutaneous pulmonary valve implantation in children and adults with 5 years follow up: single centre experience

N Nirmal (- ,GB)

- 08:00** **Refined prediction and validation of individual risk using machine learning in transcatheter aortic valve implantation: TAVI Risk Machine (TRIM) scores**
- 08:00** **The effect of Mitraclip mitral valve repair on a number of ventricular tachycardia episodes**
- 08:00** **Impact of wire sensor location on coronary physiological measurement**
- 08:00** **Clinical and echocardiographic parameters associated with left ventricular recovery after TAVI**
S Tiosano (Ramat Gan,IL)
- 08:00** **Clinical outcomes up-to 10 years of asymptomatic incidental aortic dissections and large aortic aneurysms detected on computer tomography (CTA) prior to transcatheter aortic valve implantation (TAVI)**
- 08:00** **The impact of the covid-19 pandemic on transcatheter aortic valve implantation (TAVI) service: a united kingdom tertiary centre experience**
- 08:00** **Routine snuffbox approach do not reduce radial artery occlusion in comparison with conventional transradial access**
L Kozinski (Rzeszenica,PL)
- 08:00** **Impact of poly-vascular disease on 10-year death after coronary revascularization for complex coronary artery disease**
R Wang (Xi'an,CN)
- 08:00** **Impact of significant preprocedural mitral regurgitation on mortality after transcatheter aortic valve implantation**
- 08:00** **A comparison between CEC based and QFR based adjudication among 3457 patients from 4 randomized controlled trials**
R Wang (Xi'an,CN)
- 08:00** **Assessment of ECG variables in patients with CRO revascularization: comparison of patients with evidence of ischemia versus patients with angina only**
M Uyanik (Yozgat,TR)
- 08:00** **Transcatheter aortic valve implantation outcomes compared between bicuspid aortic and tricuspid aortic valve stenosis : an updated systematic review and meta-analysis**
S Aedma (Urbana,US)
- 08:00** **The use of floating wire technique and intravascular ultrasound for precise aorto-ostial stenting**
- 08:00** **Patent foramen ovale closure: a comparison between two types of devices in a retrospective cohort**
Q Chatelain (Geneva,CH)
- 08:00** **Comparison of cardiovascular outcomes of moderate to severely calcific de novo coronary lesion preparation for stent implantation using rotational atherectomy in conjunction with cutting balloon versu**
M Gedela (- ,US)

- 08:00** **Impact of periprocedural myocardial biomarker elevation and various definitions of periprocedural myocardial infarction on long-term mortality: Insights from the largest LM-PCI cohort**
- 08:00** **Correlation of Seattle Angina Questionnaire score and post-procedural outcomes in patients undergoing multi-vessel coronary intervention**
- 08:00** **Transcatheter mitral valve-in-valve implantation: a 10-year single center experience**
- 08:00** **Management strategies for acutely decompensated aortic stenosis**
- 08:00** **Impact of the cardio-hepatic syndrome on outcomes after transcatheter mitral valve edge-to-edge repair**
L Stolz (- ,DE)
- 08:00** **Asymmetric leaflet tethering is associated with worse outcomes after edge-to-edge mitral valve repair for secondary mitral regurgitation**
L Stolz (- ,DE)
- 08:00** **Heart rate recovery after exercise is associated with radial artery spasm**
- 08:00** **Whole cycle non-hyperaemic pressure ratios have better stability than diastolic ratios after percutaneous coronary intervention due to changes in diastolic coronary haemodynamics.**
M Aetesam-ur-Rahman (Glasgow,GB)
- 08:00** **Assessment of the coronary graft patency using intraoperative optical coherence tomography**
- 08:00** **Late Clinical and Hemodynamic Outcomes in patients with degenerated bioprosthetic aortic valves undergoing transcatheter valve-in-valve implantation**
A Abushouk (Cleveland,US)
- 08:00** **Outcomes of permanent pacemaker insertion after TAVR: a systematic review and meta-analysis**
P Mahajan (- ,US)
- 08:00** **Index of microcirculatory resistance is correlated with brachial flow mediated dilation**
- 08:00** **Atrial fibrillation screening on holter monitoring after percutaneous patent foramen ovale closure: a prospective study**
F Leclercq (Montpellier,FR)
- 08:00** **MitraClip NTR vs XTR system for transcatheter tricuspid valve repair of tricuspid regurgitation**
- 08:00** **Clinical outcomes from use of sirolimus coated balloon in coronary intervention: data from Nanolute registry**
- 08:00** **Propensity-score-matched comparison of efficacy, safety, and outcome of intravascular lithotripsy versus high-pressure PTCA in coronary calcified lesions**

- 08:00** **Reference values for intracoronary doppler flow velocity-derived hyperaemic microvascular resistance index**
- 08:00** **Efficacy and performance evaluation of drug-coated balloons in de-novo small vessel diseases: Nanolute registry**
- 08:00** **Microvascular dysfunction in patients with angina and non-obstructive coronary artery disease - preliminary data from a single center registry**
A Banai (Tel Aviv,IL)
- 08:00** **Two-year clinical outcome of intravascular lithotripsy in underexpanded stents. A single- center experience**
- 08:00** **Prospective evaluation of commissural alignment of balloon-expandable transcatheter heart valves utilizing pre- and post-procedure computed-tomography**
Y Steinmetz (Jerusalem,IL)
- 08:00** **Drug-coated balloon versus drug-eluting stent following orbital atherectomy for calcified coronary artery: one-year outcomes of a retrospective cohort study**
- 08:00** **Simultaneous intracoronary testing for endothelial dysfunction and coronary vasospasm in patient with angina and non-obstructive coronary artery disease**
- 08:00** **en-ABL e-Registry: Long-term outcome of novel sirolimus eluting stent in patients with acute coronary syndrome**
- 08:00** **Usefulness of pulmonary vein flow as a predictor of long-term mortality after MitraClip implantation**
A Salinas (Temuco,CL)
- 08:00** **Impact and performance of sirolimus eluting stent in diabetic population: results from en-ABL e-registry**
- 08:00** **Long term safety and efficacy outcome after implantation of novel sirolimus eluting stent in real world patient population**
- 08:00** **Clinical outcomes following use of sirolimus coated balloon in side-branches during provisional stent technique in true bifurcations**
ADSPK Athukorala (Birmingham,GB)
- 08:00** **Use of sirolimus-coated balloon in de novo lesions; Mid-term follow-up from a single-centre registry**
B H Loku Waduge (Coventry,GB)
- 08:00** **Managing bifurcations: are two stents better than one?**
- 08:00** **In vivo assessment of the culprit lesion in patients with NSTEMI using OCT and angiography**

- 08:00 Predicting pacemaker dependency after TAVI with pre-procedural MSCT**
- 08:00 Use of sirolimus-coated balloon in de novo small vessel coronary lesions; Long-term follow-up from a single centre registry**
B H Loku Waduge (Coventry,GB)
- 08:00 Long term clinical outcomes from use of Sirolimus coated balloon in coronary intervention; data from a real-world population**
B H Loku Waduge (Coventry,GB)
- 08:00 Does the use of scoring balloon prior to drug coated balloons improve clinical outcomes in de Novo coronary lesions?**
AM Fawzy (Birmingham,GB)
- 08:00 Stent strategies in left main bifurcation lesions: the simpler, the better?**
G Oliveira Campos (Coimbra,PT)
- 08:00 Comparison of manual and robotic percutaneous coronary intervention between low-volume versus high-volume operators**
- 08:00 An evaluation of patient outcomes following transcatheter pulmonary valve implantation: a meta-analysis**
- 08:00 Intravascular imaging of the pulmonary artery in patients suspected for sarcoidosis associated pulmonary hypertension**
- 08:00 First results of a regenerative transcatheter heart valve implant from autologous tissue in a long-term animal model**
- 08:00 Right ventricular longitudinal strain on cardiovascular magnetic resonance imaging predicts outcome in patients undergoing transcatheter mitral valve repair**
- 08:00 Clinical profile and in hospital mortality of invasively managed patients with suspicion of acute coronary syndrome during the COVID-19 pandemic.**
- 08:00 Utility and safety of the MANTA device for access site closure after removal of the mechanical hemodynamic support device Impella on the intensive care unit**
- 08:00 Predictive factors of Permanent Pacemaker Implantation following Transcatheter Aortic Valve Replacement: membranous septum length and implantation depth evaluated with preoperative computed tomography**
F Ciatti (Pistoia,IT)
- 08:00 Left ventricular outflow morphology as a predictor of arrhythmic disturbances after TAVI.**
AC Espejo Paeres (Madrid,ES)
- 08:00 Fractal Law applied to bifurcation dedicated-QCA: insight from the POLBOS Left Main trial**
- 08:00 The validation of four published algorithms to predict the need for pacemaker implantation after TAVR .**

- 08:00 Transcatheter paravalvular leak closure is an effective alternative to surgical repair with respect to 5-year outcomes.**
- 08:00 Real world radiation exposure in left atrial appendage occlusion device implantation performed in a high volume center.**
- 08:00 Left atrial appendage remodeling following percutaneous closure with WATCHMAN 2.5 and FLX : insights from the WATCH-DUAL registry.**
- 08:00 Clinical outcomes in percutaneous coronary interventions with polymer-free vs. durable-polymer stents: a metanalysis of randomized clinical trials**
- 08:00 Discordant resting and hyperaemic coronary physiology among unselected patients referred for coronary angiography: a single centre experience**
D Sankhesara (Perth,AU)
- 08:00 Long-term survival benefit of SAVR over TAVR in low-risk elective patients**
A Kowalowka (Katowice,PL)
- 08:00 Machine learning identifies clinical parameters to predict mortality in patients undergoing transcatheter mitral valve repair**

Learning Objectives:

Categories:

Cardiovascular Surgery ePosters

Session Number: 498

Chairpersons:

- 08:00** **Prognosis of mitral valve regurgitation and left ventricular function in dual coronary repair for anomalous origin of left coronary artery from pulmonary artery (ALCAPA)**
S Kotit (Aswan,EG)
- 08:00** **Right ventricular diastolic dysfunction and postoperative cardiac complications in patients undergoing coronary artery bypass grafting**
A Sumin (Kemerovo,RU)
- 08:00** **VWF as a determinant of cerebral microbleeds during tavr in a prospective MRI cohort**
- 08:00** **Early results of multiple coronary artery bypass grafting on arteries less than 1.5 mm in diameter**
- 08:00** **Percutaneous access versus surgical cutdown in TAVI: vascular and bleeding complications.**
K Stathogiannis (Athens,GR)
- 08:00** **Preoperative anaemia is an independent predictor of 30-day mortality post-CABG and improves de predictive accuracy of EuroScore II**
A Rosler (Porto Alegre,BR)
- 08:00** **EuroScore II is the best predictive model for the off pump coronary artery bypass graft surgery**
A Rosler (Porto Alegre,BR)
- 08:00** **Results of on-pump and off-pump coronary artery bypass graft surgery in 30 days: an analysis by propensity score matching**
A Rosler (Porto Alegre,BR)
- 08:00** **Diffusion weight magnetic resonance imaging analisys with rapid software appication in symptomatic carotid stenosis revascularization**
- 08:00** **Nutrition and frailty status of patients undergoing cardiovascular surgery and its association with postoperative outcomes**
M Patricio (San Pedro,PH)
- 08:00** **Diagnostics and results of surgical treatment of carotid chemodectomas**
RA Abdulgasanov (Moscow,RU)
- 08:00** **The prognostic potential of growth differentiation factor-15 on bleeding events and patient outcome after cardiac surgery**
N Kazem (Vienna,AT)
- 08:00** **Osteoporosis after heart transplantation with reference to immunosuppression and renal function**
E Lofdahl (- ,SE)
- 08:00** **Two- year incidence of ppmi post savr,modified savr and tavr.**
N Kawkabani (Beirut,LB)
- 08:00** **Impact of tricuspid repair on surgical death in patients undergoing mitral valve surgery due to rheumatic disease**
- 08:00** **Sex-Related Differences in Long-Term Mortality after Coronary Artery Bypass Graft Surgery: A Systematic Review and Meta-Analysis**

- 08:00** **Single centre experience in 1202 biological prosthesis: a comparison between sutured, sutureless and surgical transcatheter aortic valve**
C Mariani (Bologna,IT)
- 08:00** **CHA2DS2-VASc below 3 predicts low one-year ischemic stroke risk in postoperative atrial fibrillation after CABG**
A Taha (Gothenburg,SE)
- 08:00** **Current applications and outcomes of venoarterial extracorporeal membrane oxygenation based on six years of experience. Risk factors for in-hospital mortality.**
M Celinska-Spodar (Zaborow,PL)
- 08:00** **Biomarkers in the postoperative period of cardiac surgery. Troponin has better accuracy than lactate to predict mortality.**
- 08:00** **Fluid responsiveness in patients under mechanical ventilation and low tidal volume ventilation through the pulse pressure variation after tidal volume challenge in the post-operative cardiac surgery.**
- 08:00** **Exploring the timing of systemic heparinization and hemostatic complications in pediatric extracorporeal membrane oxygenation failed to wean from cardiopulmonary bypass**
- 08:00** **Prognostic value of longitudinal assessment of hepatorenal function and nutritional status in patients undergoing valvular heart surgery**
- 08:00** **Predictors of in-hospital mortality, 20-year survival and reflection on risk scoring in patients with impaired left ventricular function undergoing isolated coronary artery bypass grafting**
- 08:00** **Off-pump versus on-pump coronary artery bypass grafting: a propensity score-matching analysis of safety and long-term results**
- 08:00** **High-sensitivity cardiac troponin I and T kinetics after coronary artery bypass grafting in relation to current definitions of myocardial infarction: a systematic review and meta-analysis**
E Denessen (- ,NL)
- 08:00** **Cerebrovascular accidents in patients supported with veno-arterial extracorporeal membrane oxygenation- is duration of support important?**
S Hussain (Chicago,US)
- 08:00** **Changes in aortic valve hemodynamics and ventricular functional measurements in patients undergoing transcatheter and surgical aortic valve replacement: A head-to-head comparison**
Y Manla (Abu Dhabi,AE)
- 08:00** **Long term outcome of mitral valve replacement with preservation of Subvalvular apparatus in patient with Mitral stenosis in a tertiary hospital of Bangladesh.**

Learning Objectives:

Categories:

Great debate: do digital health interventions work for all cardiovascular patients?**Session Number: 500**Chairpersons: J Hendriks (Sittard, NL)**08:00 Digital health interventions in cardiology care benefit all: pro.**

R Gallagher (Sydney,AU)

08:15 Digital health interventions in cardiology care benefit all: con.

T Beckie (Tampa,US)

08:30 Great Debate: do digital health interventions work for all cardiovascular patients? – discussion.

I Uchmanowicz (Wroclaw,PL)

Learning Objectives:

Categories: Live Chat, Nurses and Allied Professional track

**Person-centred care for people with implantable cardioverter
defibrillators**

Session Number: 501

Chairpersons:

- 09:30** **Interventions to support patients and their partners during recovery after ICD implantation.**
- 09:45** **A 'good death': is this possible for patients with implantable cardioverter defibrillators?**
L Hill (Co.Antrim,GB)
- 10:00** **Person-centred care for people with implantable cardioverter defibrillators – discussion.**
A Stromberg (Linkoping,SE)

Learning Objectives:

Categories: Live Chat, Nurses and Allied Professional track

Advanced nurse roles in cardiovascular care: what does the future look like?

Session Number: 502

Chairpersons: V Oriolo (Clevedon, GB)

- 10:30** **Advanced nurse roles: challenges and opportunities.**
E Lambrinou (Limassol,CY)
- 10:41** **Nurse-led hypertension management in South Africa.**
D Gray (Norfolk,US)
- 10:52** **Advanced nursing practice in transitional care for people with congenital heart disease.**
M De Hosson (Gentbrugge,BE)
- 11:03** **Advanced nurse roles in cardiovascular care: what does the future look like – discussion.**
P Moons (Leuven,BE)

Learning Objectives:

Categories: Live Chat, Nurses and Allied Professional track

Understanding spontaneous coronary artery dissection

Session Number: 503

Chairpersons: A Maas (Nijmegen, NL)

- 12:00 The iSCAD Registry.**
E Kim (- ,US)
- 12:11 Cardiac rehabilitation for SCAD.**
A Chou (Vancouver,CA)
- 12:22 Living with SCAD: the patient experience.**
J Harris (- ,GB)
- 12:33 Understanding spontaneous coronary artery dissection – discussion.**
C Grines (Atlanta,US)

Learning Objectives:

Categories: Live Chat, Nurses and Allied Professional track

Meet the Experts: cardiomyopathies and sudden cardiac death**Session Number: 504**Chairpersons: S Nistri (Altavilla Vicentina, IT)

08:00 Amyloidosis, sarcoidosis, other infiltrative diseases and sudden cardiac death.
WJ McKenna (London,GB)

08:15 A comprehensive guide to risk stratification for sudden cardiac death in hypertrophic cardiomyopathy.
P Spirito (Monza,IT)

08:30 Meet the Experts: cardiomyopathies and sudden cardiac death – discussion.
PM Elliott (London,GB)

Learning Objectives:

Categories: General Cardiology for Physicians, Technicians and General Practitioners, Live Chat, Spotlight of the Congress

Meet the Experts: thoracic aortic diseases – a clinical appraisal for cardiology practice

Session Number: 505

Chairpersons: R Christodorescu (Timisoara, RO)

09:30 Burden of thoracic aortic disease and screening strategies.

M Ehrlich (Vienna,AT)

09:45 Genotype-phenotype correlation in Marfan's syndrome with thoracic aortic disease.

G Jondeau (Paris,FR)

10:00 Meet the Experts: thoracic aortic diseases – a clinical appraisal for cardiology practice – discussion.

J De Backer (Ghent,BE)

Learning Objectives:

Categories: General Cardiology for Physicians, Technicians and General Practitioners, Live Chat

When and how to allow sport activities: a general cardiologist's perspective

Session Number: 506

Chairpersons: M Ferrini (Lyon, FR)

- 10:30 When and how to allow sport activities for patients with arrhythmogenic cardiomyopathy.**
JC Deharo (Marseille Cedex 05,FR)
- 10:41 When and how to allow sport activities for patients with congenital heart disease.**
T Lynge (Copenhagen,DK)
- 10:52 When and how to allow sport activities for patients recovering from myocarditis.**
B Heidecker (Berlin,DE)
- 11:03 When and how to allow sport activities: a general cardiologist's perspective – discussion.**
E Prescott (Copenhagen,DK)

Learning Objectives:

Categories: General Cardiology for Physicians, Technicians and General Practitioners, Live Chat

**Are we following the 2018 ESC/ESH Guidelines on Management of
Arterial Hypertension in Elderly Patients?**

Session Number: 507

Chairpersons: L Guasti (Varese, IT)

- 12:00 Hypertension management in an elderly patient: case presentation.**
D Richter (Athens,GR)
- 12:15 Hypertension management in an elderly patient: what do the guidelines say?**
G de Simone (Napoli,IT)
- 12:30 Hypertension management in an elderly patient: how to implement the guidelines
and take-home message.**
B Williams (London,GB)

Learning Objectives:

Categories: General Cardiology for Physicians, Technicians and General Practitioners, Live Chat

COVID-19: who is at risk?

Session Number: 508

Chairpersons: C Boileau (Paris, FR)

- 10:30 OpenSAFELY: using big data to identify high risk individuals.**
B Goldacre (Oxford,GB)
- 10:41 The genetic determinants of severe COVID-19.**
K Baillie (Edinburgh,GB)
- 10:52 Severe COVID-19 in the young and healthy: monogenic inborn errors of immunity.**
JL Casanova (New York,US)
- 11:03 COVID-19: who is at risk? – discussion.**
FW Asselbergs (Utrecht,NL)
- S Madhi (Johannesburg,ZA)

Learning Objectives:

Categories: COVID-19, Live Chat

The collateral damage of COVID-19 on CVD

Session Number: 509

Chairpersons: A Chieffo (Milan, IT)

- 08:00 COVID-19 and ACS admissions: lessons from the UK.**
M Mafham (Oxford,GB)
- 08:11 The COVID-19 pandemic: a multiple (cardiovascular) hit?**
H Bueno (Madrid,ES)
- 08:22 COVID-19 and the risk of thrombosis.**
A Mebazaa (Paris,FR)
- 08:33 The collateral damage of COVID-19 on CVD – discussion.**
D Erlinge (Lund,SE)
- F Andreotti (Rome,IT)

Learning Objectives:

Categories: COVID-19, Live Q&A

Long COVID: does it matter?

Session Number: 510

Chairpersons: H Bueno (Madrid, ES)

- 12:00 COVID-19 long haulers and cardiovascular risks.**
B Raman (Oxford,GB)
- 12:11 Post-COVID-19 hospital admissions in Italy: the size of the problem.**
AP Maggioni (Milano,IT)
- 12:22 The persistence of SARS-CoV-2 antibodies over time: results from UK Biobank.**
N Allen (Oxford,GB)
- 12:33 Long COVID: does it matter? – discussion.**
E Nagel (Frankfurt,DE)

Learning Objectives:

Categories: COVID-19, Live Q&A

Preventing and managing COVID-19: where are we?

Session Number: 511

Chairpersons: K Sliwa-Hahnle (Cape Town, ZA)

09:30 Pharmacological treatment of hospitalised patients with COVID-19.
MJ Landray (Oxford,GB)

09:41 Vaccination strategies in Europe and beyond.
R Hatchett (Oslo,NO)

09:52 Using lipidomics and metabolomics to identify new treatments for COVID-19.
GA FitzGerald (Philadelphia,US)

10:03 Preventing and managing COVID-19: where are we? – discussion.
D Prabhakaran (Gurugram,IN)

P Turano (Florence,IT)

Learning Objectives:

Categories: COVID-19, Live Chat

The practicalities of drug treatment in heart failure**Session Number: 512**Chairpersons: J Celutkiene (Vilnius, LT) - A Flammer (Zurich, CH)

08:00 A closer look at heart failure drugs: particular benefits and problems.
CS Lam (Singapore,SG)

08:15 Starting, dosing, stopping: how to initiate and titrate heart failure drugs.
M Packer (Dallas,US)

08:30 Which drug when?: how to sequence heart failure drugs in 2021.
JJV McMurray (Glasgow,GB)

Learning Objectives:

Categories: Live Chat

How to handle bleeding in patients on oral anticoagulation**Session Number: 513**Chairpersons: S Halvorsen (Oslo, NO) - IC Van Gelder (Groningen, NL)

- 09:30 First, do no harm: how to mitigate bleeding risk in patients on oral anticoagulation.**
SD Kristensen (Aarhus N,DK)
- 09:45 Stopping, reversing, and restarting anticoagulation in bleeding patients.**
D Sibbing (Eichenau,DE)
- 10:00 How to deal with bleeding complications in patients on oral anticoagulation after recent stent implantation.**
DJ Angiolillo (Jacksonville,US)

Learning Objectives:

Categories: Live Chat

Echocardiographic quantification of mitral, aortic and tricuspid regurgitation: a cookbook approach**Session Number: 514**Chairpersons: C Otto (Seattle, US) - L Sade (Ankara, TR)

10:30 When is secondary mitral regurgitation severe?
V Delgado (Leiden,NL)

10:45 How to grade severity of tricuspid regurgitation.
R Hahn (New York,US)

11:00 Aortic regurgitation.
FA Flachskampf (Uppsala,SE)

Learning Objectives:

Categories: Live Chat

Managing patients with PFO: practical advice**Session Number: 515**Chairpersons: S Clarke (Cambridge, GB) - E Stabile (Napoli, IT)**12:00 When is stroke related to PFO? A diagnostic algorithm.**

C Pristipino (Roma,IT)

12:15 Some PFOs are more dangerous than others: a look at the details.

D Thaler (Boston,US)

12:30 Which device for which patient and long-term management after PFO closure.

L Soendergaard (Hilleroed,DK)

Learning Objectives:

Categories: Live Chat

Evaluation and treatment of pericarditis and myocarditis: what you need to know**Session Number: 516**Chairpersons: M Imazio (Udine, IT)**08:00 Diagnostic workup and management of pericarditis.****08:15 Diagnostic workup and management of myocarditis.**

G Hasenfuss (Goettingen,DE)

08:30 COVID-19, pericarditis, and myocarditis: what do we know?

Learning Objectives:

Categories: Live Chat

Workup of syncope: an algorithmic approach**Session Number: 517**Chairpersons: MG Bongiorno (Pisa, IT) - A Oto (Ankara, TR)**09:30 Standardized workup of patients with syncope.**

M Brignole (Lavagna, IT)

09:45 Management (diagnosis and treatment) of syncope without prodromes, normal heart and normal ECG.

JC Deharo (Marseille Cedex 05, FR)

10:00 Which patients with syncope cannot be discharged from the emergency room?

A Moya I Mitjans (Barcelona, ES)

Learning Objectives:

Categories: Live Chat

Lipid lowering beyond LDL-cholesterol and statins**Session Number: 518**Chairpersons: A Catapano (Milan, IT) - JW Jukema (Leiden, NL)

10:30 When to look for and how to effectively lower Lp (a).
F Mach (Geneva,CH)

10:45 When and how to treat hypertriglyceridemia.
KG Parhofer (Munich,DE)

11:00 How to diagnose and effectively treat familial hypercholesterolemia.
M Benn (Hellerup,DK)

Learning Objectives:

Categories: Live Chat

LDL lowering – dealing with difficult situations**Session Number: 519**Chairpersons: S Tokgozoglu (Ankara, TR) - J Kastelein (Amsterdam, NL)

12:00 How to evaluate and manage myalgias.
I Sudano (Zurich,CH)

12:15 How to deal with increased liver function tests.
A Abreu (Lisboa,PT)

12:30 How to treat patients with recurrent CV events despite being on target.
U Laufs (Leipzig,DE)

Learning Objectives:

Categories: Live Chat

Spiroergometry in clinical practice**Session Number: 520**Chairpersons: M Guazzi (San Donato Milanese, IT) - E Van Craenenbroeck (Edegem, BE)

08:00 Spiroergometry: when is it useful, when not?
C Schmied (Zurich,CH)

08:15 How to perform spiroergometry.
F Edelmann (Berlin,DE)

08:30 How to interpret results from spiroergometry.
M Wilhelm (Bern,CH)

Learning Objectives:

Categories: Live Chat

24-hour ambulatory blood pressure recordings in clinical practice**Session Number: 521**Chairpersons: A Dominiczak (Glasgow, GB) - R Kreutz (Berlin, DE)

09:30 24-hour ambulatory blood pressure recordings: when and how.
M Burnier (Lausanne,CH)

09:45 How to interpret results from 24-hour ambulatory blood pressure recordings.
A Coca (Barcelona,ES)

10:00 From frequent to crazy: pitfalls in the interpretation of 24-hour ambulatory blood pressure recordings.
E Agabiti-Rosei (Brescia,IT)

Learning Objectives:

Categories: Live Chat

Diagnostic pearls of right heart catheterisation**Session Number: 522**Chairpersons: H Baumgartner (Muenster, DE) - MHS El Sayed (Cairo, EG)**10:30 How to perform right heart catheterisation: doing things right.**

D Dumitrescu (Cologne,DE)

10:45 Interpretation of right heart catheterisation: standards and some useful secrets.

FR Eberli (Zurich,CH)

11:00 Restriction and constriction: a comprehensive diagnostic approach.

M Abdelhamid (Cairo,EG)

Learning Objectives:

Categories: Live Chat

Management of secondary hypertension**Session Number: 523**Chairpersons: K Tsioufis (Athens, GR) - Z Reiner (Zagreb, HR)

12:00 When to consider secondary causes of hypertension.
TF Luscher (London,GB)

12:15 Diagnostic workup of patients with suspected secondary hypertension.
S Taddei (Pisa,IT)

12:30 Treatment of patients with secondary hypertension.
I Sudano (Zurich,CH)

Learning Objectives:

Categories: Live Chat

How to interpret 24-hour and smart watch ECGs**Session Number: 524**Chairpersons: G Hindricks (Leipzig, DE) - E Svennberg (Stockholm, SE)

08:00 Tips and tricks for the rapid and correct interpretation of 24-hour ECGs.
J Brugada Terradellas (Barcelona,ES)

08:15 ECG challenges from smartwatch recordings.
N Pluymaekers (Maastricht,NL)

08:30 Wearable ECGs: AF, SVT, or VT?
D Duncker (Hannover,DE)

Learning Objectives:

Categories: Live Chat

Chest X-ray and lung ultrasound for the cardiologist**Session Number: 525**Chairpersons: A Sionis (Barcelona, ES) - S Price (London, GB)

09:30 The heart and lungs in chest X-ray: a systematic approach to interpretation.
S Abbara (Dallas,US)

09:45 Lung ultrasound: a primer.
L Gargani (Pisa,IT)

10:00 Lung and heart: a point-of-care, ultrasound-integrated approach in acute setting.
G Tavazzi (Pavia,IT)

Learning Objectives:

Categories: Live Chat

Coronary complications and how to fix them**Session Number: 526**Chairpersons: M Alasnag (Jeddah, SA) - A Kastrati (Munche, DE)

10:30 Stent loss: what can and should be done?
G Stefanini (Milan, IT)

10:52 The undilatable lesion: tips, tricks, and useful approaches.
T Lefevre (Massy, FR)

Learning Objectives:

Categories: Live Chat

Statistics and interpretation of clinical trials**Session Number: 527**Chairpersons: R Harrington (Stanford, US) - RM Califf (Durham, US)

- 12:00 The sense and nonsense of p-values.**
SJ Pocock (London,GB)
- 12:11 Deceiving statistics in clinical trials: how to avoid pitfalls.**
C Baigent (Oxford,GB)
- 12:22 Meaningful endpoints in cardiovascular outcome trials.**
P Juni (Toronto,CA)
- 12:33 Statistics and interpretation of clinical trials - Discussant.**
R Mehran (New York,US)

Learning Objectives:

Categories: Live Chat

**ESC Geoffrey Rose Lecture in Population Sciences and Florence
Nightingale Lecture in Nurse-Led Research**

Session Number: 528

Chairpersons: D Fitzsimons (Belfast, GB) - B Casadei (Oxford, GB)

09:30 ESC Geoffrey Rose lecture in population sciences.
C Torp-Pedersen (Aalborg,DK)

09:52 Florence Nightingale lecture in nurse-led research.
C Deaton (Cambridge,GB)

Learning Objectives:

Categories: Live Chat

ESC Rene Laennec Lecture on Clinical Cardiology and Andreas Gruntzig Lecture on Interventional Cardiology

Session Number: 529

Chairpersons: F Weidinger (Vienna, AT) - S Clarke (Cambridge, GB)

09:30 Why do we need large scale clinical networks.
AP Maggioni (Milano,IT)

09:52 ESC Andreas Gruntzig lecture on interventional cardiology.
C Grines (Atlanta,US)

Learning Objectives:

Categories: Live Chat

**ESC Paul Hugenoltz Lecture for Innovation and William Harvey
Lecture on Basic Science**

Session Number: 530

Chairpersons: T Guzik (Glasgow, GB) - S Dimmeler (Frankfurt, DE)

09:30 Silencing the messenger: RNAi therapeutics as a new class of innovative medicines.

J Maraganore (Cambridge,US)

09:52 HFpEF: malady, model, meta-inflammatory mechanisms.

J Hill (Dallas,US)

Learning Objectives:

Categories: Live Chat

Essentials in Imaging – 1: Optimal use of imaging techniques to address some of the most challenging questions in cardiology**Session Number: 531**Chairpersons:**08:00 Essential update on Multi-Modality Imaging: best practices to diagnose ischaemia in chronic coronary syndromes.**

J Knuuti (Turku,FI)

08:15 Essential update on Multi-Modality Imaging during and after symptomatic COVID infection.

T Edvardsen (Oslo,NO)

08:30 Essential update on Multi-Modality Imaging: best practices to assess mitral regurgitation.

M Sitges (Barcelona,ES)

Learning Objectives: After watching this session, participants will understand:
Highlights of the ESC Guidelines and EACVI recommendations regarding use of MMI in chronic coronary syndromes;
An overview of global echocardiographic approaches and MMI for myocardial injury; and
Best practices to assess mitral regurgitation with emphasis on assessment of the valve and left ventricle.

Categories: Live Chat

Essentials in Imaging – 2: When and how to use cardiac MR, CT and FoCUS**Session Number: 532**Chairpersons:

- 08:00 Essential update on cardiac magnetic resonance: 10 'must' indications for best practices.**
C Manisty (London,GB)
- 08:15 Essential update on multislice computerised tomography: aortic valve and aortic syndromes.**
R Manka (Zurich,CH)
- 08:30 Essential update on FoCUS: how do I best use FoCUS echocardiography and where do I stop?**
L Gargani (Pisa,IT)

Learning Objectives: After watching this session, participants will understand:
Urgent indications of CMR for patient management;
An overview of the recommendations from the ESC and EACVI; and
3 of the 10 FOCUS exam targets with best illustrative cases involving screening for signs of chronic pre-existing cardiac disease, LV, RV, volume, status, pericardial effusion, heart valves, masses, peri-arrest, shock, and lung ultrasound.

Categories: Live Chat

Essentials in Valvular Heart Disease – 1: Aortic and mitral valve disease**Session Number: 533**Chairpersons:

- 09:30 Aortic stenosis and low flow state: implications for diagnosis and treatment.**
P Pibarot (Quebec,CA)
- 09:45 Secondary mitral regurgitation from the perspective of left ventricular size and function.**
- 10:00 Arrhythmic mitral valve prolapse and mitral annular disjunction.**
C Basso (Padua,IT)

Learning Objectives: After watching this session, participants will understand:

- Different causes of reduced stroke volume and its impact on echocardiographic grading of aortic stenosis;
- Implications of echocardiographic ambiguity in assessing aortic stenosis severity in cases of asymptomatic and symptomatic patients;
- Additional diagnostic modalities that can improve diagnosis of severe aortic stenosis in cases of low flow state;
- Prognosis of low flow aortic stenosis, including when and how (surgical vs. transcatheter) to treat such patients;
- The link between secondary mitral regurgitation and LV size/function;
- How to improve proper LV function quantification and perform a differential diagnosis for the cause of LV dysfunction in the clinical context;
- Prognosis and therapeutic options and the multidisciplinary management approach suggested by the ESC;
- The morphological and pathophysiological characteristics of mitral valve prolapse and mitral annulus disjunction, including potential alterations of LV contraction (curling, subtle LV dysfunction) and myocardial structure (papillary fibrosis);
- The association between these conditions and ventricular arrhythmias; and
- The challenges in risk stratification (particularly in regards to arrhythmias) and treatment of such patients.

Categories: Live Chat

Essentials in Valvular Heart Disease – 2: Challenging Clinical Scenarios**Session Number: 534**Chairpersons:**09:30 Tricuspid regurgitation: from the assessment of severity to the indication for interventions.**

D Muraru (Milan,IT)

09:45 Valve prostheses dysfunction: focus on TAVI.

S Pislaru (Rochester,US)

10:00 Management of endocarditis: state of the art

G Habib (Marseille,FR)

Learning Objectives: After watching this session, participants will understand:

- How to quantify tricuspid regurgitation by echocardiography and the new concept of severe tricuspid regurgitation;
- The important role of right ventricular function and pulmonary pressure on symptomatic status and regurgitation severity;
- The optimal time point for tricuspid valve intervention;
- The various surgical and percutaneous methods for treating tricuspid regurgitation;
- The incidence and time course for valve prosthesis (particularly TAVR) dysfunction, including degeneration, thrombosis, paravalvular leakage and endocarditis;
- Risk factors for TAVR prosthesis dysfunction;
- Symptoms and signs of patients with TAVR prosthesis dysfunction;
- How to diagnose TAVR prosthesis dysfunction using different imaging modalities;
- How to treat patients with various forms of TAVR prosthesis dysfunction;
- The predisposition, as well as symptoms and signs of endocarditis;
- Imaging modalities for diagnosis of endocarditis;
- The importance of the Endocarditis Team; and
- The latest recommendations on endocarditis prophylaxis.

Categories: Live Chat

Essentials in Prevention - 1: Cardiovascular Epidemiology and Primary Prevention**Session Number: 535**Chairpersons:**10:30 Epidemiology of CV disease.****10:45 Primary prevention: who is concerned? when? how?**

M Pedro (Lisboa,PT)

11:00 How to recognise essential hypertension.

K Narkiewicz (Gdansk,PL)

Learning Objectives: After watching this session, participants will understand:
How to present the epidemiology of cardiovascular disease;
What is primary prevention and which lifestyles are at risk for CV disease;
Who is concerned by primary prevention, as well as the role of drugs (i.e. statins, aspirin, etc.);
When to use primary prevention to check patients for CV disease;
How to recognise and diagnose essential hypertension, compared with secondary hypertension;
and
That organ damage is an indicator of hypertension.

Categories: Live Chat

Essentials in Prevention – 2: Drug Treatment in Primary Prevention**Session Number: 536**Chairpersons:

- 10:30 How to treat the patient with hypertension in 2021.**
H Hanssen (Basel,CH)
- 10:45 Current management of dyslipidaemia: tools of the trade.**
X To be announced (X,FR)
- 11:00 New antidiabetes medications: treat your heart with antidiabetic drugs.**
M Sabatine (Boston,US)

Learning Objectives: After watching this session, participants will understand:
Treatment of hypertension, including when to use bitherapy or tritherapy treatment;
Drug therapy for patients with comorbidities;
Use of nonpharmacological treatments;
How to manage patients with dyslipidaemia;
Pharmacological and nonpharmacological treatments;
Determining targets according to patient status; and
Cardiac interest in new opportunities to use antidiabetic drugs for nondiabetic patients.

Categories: Live Chat

Essentials in Prevention – 3: Secondary Prevention and Sports Cardiology**Session Number: 537**Chairpersons:

08:00 A complete prescription for secondary prevention.
F Visseren (Utrecht,NL)

08:15 Cardiac rehabilitation: when and how in a nutshell.
P Dendale (Hasselt,BE)

08:30 The pillars of sports cardiology.
A Pelliccia (Rome,IT)

Learning Objectives: After watching this session, participants will understand:
Points to check for secondary prevention;
Drug prescriptions for patients in secondary prevention;
What needs to be systematically checked in secondary prevention;
Principles, indications and aims of cardiac rehabilitation;
Verifications needed for patients wishing to participate in sport;
The risks, including sudden death, for such patients; and
Changes in cardiac physiology precipitated by sports.

Categories: Live Chat

Essentials in the Cardiology Clinic - 1: Venous, Peripheral Artery and Aortic Disease**Session Number: 538**Chairpersons:

- 12:00 Adult congenital heart disease: essential update.**
M Gatzoulis (London,GB)
- 12:15 Venous thromboembolic disease: essential update.**
C Becattini (Perugia,IT)
- 12:30 Approach to the patient with pulmonary hypertension: essential knowledge.**
A Manes (Bologna,IT)

Learning Objectives: After watching this session, participants will understand:
The general approach to an adult patient with congenital heart disease;
How to focus on the most common congenital abnormalities;
Diagnosis and risk stratification in acute PE;
Reperfusion and anticoagulation;
Long-term anticoagulation extension considerations;
PH definition and classification; and
Approach to a patient with Group 1 PAH.

Categories: Live Chat

Essentials in the Cardiology Clinic - 2: Pulmonary Hypertension, Congenital Heart Disease and Pregnancy**Session Number: 539**Chairpersons:

- 12:00 Pregnancy and the heart: essential knowledge.**
LP Patricio (Lisboa,PT)
- 12:15 Management in peripheral artery disease: essential update.**
S Anand (Hamilton,CA)
- 12:30 Aortic diseases: essential knowledge.**
E Lansac (Paris,FR)

Learning Objectives: After watching this session, participants will understand:
Assessing the risk of pregnancy in patients with previous cardiovascular disease;
Safe and nonsafe drug during pregnancy;
Management of peripartum cardiomyopathy;
Diagnosis of PAD;
General nonpharmacological and pharmacological approaches to PAD treatment;
Management of acute limb ischaemia;
The approach to a patient with acute aortic syndromes; and
The special focus on the role of hereditary aortic diseases.

Categories: Live Chat

Essentials in Coronary Artery Disease - 1: Contemporary Management of Acute and Chronic Coronary Syndromes**Session Number: 540**Chairpersons:**09:30 Diagnosis and treatment of ACS.**

G Siontis (Bern,CH)

09:45 Antithrombotic regime in ACS and CCS patients.

D Capodanno (Catania,IT)

10:00 Diagnosis of CCS: from the clinical likelihood to the assessment of event risk.

R Colleran (Dublin,IE)

Learning Objectives: After watching this session, participants will understand:
The role of 'rule in-rule out' algorithms, noninvasive imaging and indications/timing for revascularisation;
How to implement antithrombotic therapy according to the ischaemic and bleeding risk of the patient; and
Indications for utilisation of special diagnostic procedures (noninvasive and invasive) and their interpretation.

Categories: Live Chat

Essentials in Coronary Artery Disease – 2: Personalised Decisions in Difficult Scenarios**Session Number: 541**Chairpersons:

- 08:00 Angina without obstructive coronary disease.**
V Kunadian (Newcastle Upon Tyne,GB)
- 08:15 Coronary physiology in the cath lab.**
G Toth (Graz,AT)
- 08:30 Management of CAD patients by the Heart Team.**
V Paradies (Rotterdam,NL)

Learning Objectives: After watching this session, participants will understand:
Pathophysiology;
Noninvasive/invasive testing;
Treatment;
Indications of coronary physiology and the interpretation of results;
Role of coronary physiology in CCS and ACS pts;
Single vs. multiple lesions; and
How to use the risk scores for PCI and CABG treatment and how to cooperate effectively with members of the Heart Team.

Categories: Live Chat

Essentials in Arrhythmias – 1: Advice for the Management of Malignant Arrhythmias**Session Number: 542**Chairpersons:

10:30 Ventricular tachycardia: the good the bad and the ugly – how to tell the difference.
N Dagues (Leipzig,DE)

10:45 What you should know about hypertrophic cardiomyopathy.
M Maron (Boston,US)

11:00 Sudden cardiac death in the young: utility of postmortem genetic testing and how to screen.
A Wilde (Amsterdam,NL)

Learning Objectives: After watching this session, participants will understand:
How to focus on risk stratification of ventricular arrhythmias;
Risk stratification for sudden cardiac death, cascade screening, and new treatments;
How to approach surviving relatives of young patients who have suffered a sudden cardiac death;
and
How to manage screening and choice of the right evaluation involving a molecular autopsy.

Categories: Live Chat

Essentials in Arrhythmias – 2: A Structured Approach to Managing Atrial Fibrillation**Session Number: 543**Chairpersons:**09:30 The AF patient with a stroke: how to reduce the risk of recurrence.**

M Paciaroni (Perugia,IT)

09:45 Atrial fibrillation ablation: novel indications.

I Deisenhofer (Munich,DE)

10:00 Structured characterisation of atrial fibrillation: How-To?

G Boriani (Castenaso-Bo,IT)

Learning Objectives: After watching this session, participants will understand:
When to initiate or reinstitute anticoagulant treatment after an ischaemic stroke, balancing the risks of haemorrhagic transformation against a recurrent ischaemic event;
How a multidisciplinary team should handle the challenge of managing an AF patient after an ischaemic stroke;
Indications for atrial fibrillation ablation according to guidelines and evaluation of recent randomised AF ablation trials; and
How to evaluate patients with atrial fibrillation for optimal management.

Categories: Live Chat

Essentials in Heart Failure – 1: Definition, Prevention, Diagnosis**Session Number: 544**Chairpersons:

- 12:00 Universal definition of heart failure and new classifications.**
B Bozkurt (Houston,US)
- 12:15 Drug treatment to prevent heart failure in high risk populations.**
L Lund (Stockholm,SE)
- 12:30 A multi-modality diagnostic approach to tailor therapy for cardiomyopathies**
S Heymans (Maastricht,NL)

Learning Objectives: After watching this session, participants will understand:
Novel unified nomenclature for heart failure based on a joint position paper approved worldwide;
Prevention of heart failure is an important issue in modern cardiology;
Therapies with preventive effects proven in RCTs in populations known for risks of developing HF (CKD, DM, hypertension, post-MI); and
Novel diagnostic and therapeutic algorithms for amyloidosis, Fabry disease, and other secondary cardiomyopathies.

Categories: Live Chat

Essentials in Heart Failure – 2: Therapeutic Targets**Session Number: 545**Chairpersons:

10:30 Reduction in recurrent heart failure hospitalisations, cardiovascular and non-cardiovascular mortality: therapeutic targets in heart failure.

O Chioncel (Bucuresti,RO)

10:45 Good quality of life and independence: therapeutic targets in heart failure.

L Hill (Co.Antrim,GB)

11:00 Comorbidities as key therapeutic targets in heart failure.

E Jankowska (Wroclaw,PL)

Learning Objectives: After watching this session, participants will understand:
Pharmacotherapies, invasive procedures and implanted devices with effects demonstrated in evidence updates including RCTs; and
Novel evidence about therapies for diabetes, kidney dysfunction, hyperkalaemia, and iron deficiency which directly affect outcomes in patients with heart failure.

Categories: Live Chat

The EHJ's Year in Cardiovascular Medicine 2020: epidemiology and prevention, ischaemic heart disease, acute coronary syndromes

Session Number: 650

Chairpersons: F Crea (Roma, IT) - L Badimon (Barcelona, ES)

08:00 Epidemiology and prevention.
C Torp-Pedersen (Aalborg,DK)

08:15 Ischaemic heart disease.
JC Kaski (London,GB)

08:30 Acute coronary syndromes.
S Price (London,GB)

Learning Objectives:

Categories: Live Chat

**The EHJ's Year in Cardiovascular Medicine 2020: heart failure,
valvular heart disease, imaging**

Session Number: 651

Chairpersons: C Linde (Stockholm, SE) - P Libby (Boston, US)

- 09:30 Heart failure.**
J Bauersachs (Hannover,DE)
- 09:45 Valvular heart disease.**
H Baumgartner (Muenster,DE)
- 10:00 Imaging.**
C Bucciarelli-Ducci (Bristol,GB)

Learning Objectives:

Categories: Live Chat

The Best of the ESC Journal Family: top cited papers in 2021

Session Number: 652

Chairpersons: B Casadei (Oxford, GB) - S Achenbach (Erlangen, DE)

12:00 EHJ Acute Cardiovascular Care.
P Vranckx (Hasselt,BE)

12:15 Cardiovascular Research.
T Guzik (Glasgow,GB)

12:30 EHJ Cardiovascular Imaging.
G Maurer (Vienna,AT)

Learning Objectives:

Categories: Live Chat

Novel insights in electrophysiology and wearables**Session Number: 701****Best cases from the Young**Chairpersons: V Johnson (Giessen, DE) - CJF Camm (Oxford, GB)

- 07:15** **Wearable devices and their role in sub-clinical arrhythmia detection.**
R Chattopadhyay (Cambridge,GB)
- 07:24** **Smartwatch heart monitor alert leads to a diagnosis of life-threatening cardiac sarcoidosis.**
F Ahmed-Jushuf (London,GB)
- 07:33** **CMR-guided typical atrial flutter ablation in the Maastricht University Medical Centre - Choose your optimal path through the isthmus towards the inferior caval vein.**
G Bijvoet (Maastricht,NL)
- 07:42** **Photoplethysmography-guided remote adaption of rate control in a patient with atrial flutter: a case from the TeleCheck-AF project.**
R Van Der Velden (- ,NL)
- 07:51** **Arrhythmogenic Right Ventricular Dysplasia coinciding with Coronary Artery Disease.**
A Christofi (Athens,GR)

Learning Objectives:

Categories:

Best clinical cases in acute cardiac care**Session Number: 702****Best cases from the Young**Chairpersons: S Gevaert (Gent, BE) - R Liga (Pisa, IT)

- 20:15 Mechanical complications in an acute coronary syndrome: there is always room for one more.**
A Garcia Olea (Vitoria,ES)
- 20:24 Acute Right Heart Failure with Cardiogenic Shock due to Primary Cardiac Sarcoma.**
LA Jimenez Ruan (Puebla,MX)
- 20:33 A catastrophic case of acute adrenergic cardiomyopathy.**
A Carrer (Treviso,IT)
- 20:42 Aborted Sudden Cardiac Death in a young female patient: a rare case of acute coronary syndrome.**
D Afendoulis (Chios,GR)
- 20:51 Right ventricular wall rupture within percutaneous occluder implantation after post AMI ventricular septum rupture due to COVID-19-associated myocarditis.**
E Anufriev (Moscow,RU)

Learning Objectives:

Categories:

Nightmare at the cath lab**Session Number: 703****Best cases from the Young**Chairpersons: E Cavarretta (Latina, IT) - E Karagiannidis (Thessaloniki, GR)

- 07:15 Hyperperfusion Injury after Percutaneous Transluminal Renal Angioplasty for Renovascular Hypertension as Sequelae of Neuroblastoma.**
R Ono (Chiba,JP)
- 07:24 A challenging case of a 41-year-old female with ST-elevation and spontaneous coronary artery dissection of the left anterior descending artery to act or not to act?**
B Saberwal (Belvedere,GB)
- 07:33 Successful Retrieval of Massive Multivessel Coronary Thrombosis with a Neurovascular System in a COVID-19 patient.**
P Demola (Parma,IT)
- 07:42 Femoral Artery Pseudoaneurysm Expansion Treated Through Subcutaneous Fat Embolization.**
R Raja Shariff (Sungai Buloh,MY)
- 07:51 Unforeseen rare complication of percutaneous coronary intervention.**
M Abdelghani (Doha,QA)

Learning Objectives:

Categories:

Straight from the Heart**Session Number: 704****Best cases from the Young**Chairpersons: M Arzanauskaite (Liverpool, GB) - M Marwan (Erlangen, DE)

- 20:15 Left ventricular rupture after mitral valve repair: a not too late outpatient diagnosis.**
M Brandao (Braga,PT)
- 20:24 Pre-left ventricular hypertrophy stage in hypertrophic cardiomyopathy is it really benign?**
M Ferreira Fonseca (Sobreda,PT)
- 20:33 Giant Proximal LAD Aneurysm causing Multi-Vessel Myocardial Ischaemia the pressure is on.**
A Rutherford (Swindon,GB)
- 20:42 Acute structural valve deterioration of the Freestyle aortic root bioprosthesis.**
H Naderi (London,GB)
- 20:51 Gigantic Heart.**
R Jadav (Rochester,US)

Learning Objectives:

Categories:

Congenital heart disease: why is it always a challenge to diagnose and treat?**Session Number: 705**Chairpersons: B Michalski (Ksawerow, PL) - S Castelletti (Milan, IT)

- 07:15 Cardiac resynchronization therapy as a bridge to aortic valve replacement late after anatomic correction of the transposition of the great arteries.**
K Borowiec (Warsaw,PL)
- 07:24 Congenital isolated bilateral upper pulmonary veins atresia - oligosymptomatic adult patient case report.**
K Bobocka (Bratislava,SK)
- 07:33 Taking the road less travelled: A case of an abnormal origin of the left main stem from the right coronary sinus.**
M Coutinho Pinto (Portsmouth,PT)
- 07:42 Transcatheter closure of large atrial septal defect in an adult dextrocardia with situs inversus and congenitally corrected transposition of great arteries.**
X Chen (Hangzhou,CN)
- 07:51 Unrepaired tetralogy of Fallot in the adult: an unexpected diagnosis.**
P Garcia Bras (Lisbon,PT)

Learning Objectives:

Categories:

Acute and chronic heart failure

Session Number: 706

Chairpersons:

- 08:00 Acute cardiac manifestations of SARS-CoV-2 infection: spotting the clot.**
R Kerley (Limerick,IE)
- 08:00 A rare case of Takotsubo cardiomyopathy with transient complete heart block.**
O Elrasheid (Riyadh,SA)
- 08:00 Takotsubo syndrome during surgery for Pheochromocytoma: an unexpected complication.**
C Paraschiv (- ,RO)
- 08:00 Familial dilated cardiomyopathy caused by the mutation of the ANKRD1 gene - a case report of severe left ventricular systolic dysfunction with EF of 20% treated with sacubitril/valsartan and complete reverse remodeling.**
J Pudich (Hlucin,CZ)
- 08:00 Intracardiac mass revealed an unusual form of heart-disease in Europe.**
A Marcu (Craiova,RO)
- 08:00 More facets of acute myocarditis.**
KM Hassan (Cape Town,ZA)
- 08:00 A phospholamban-truncating variant as the underlying etiology of a severe arrhythmogenic phenotype of dilated cardiomyopathy.**
A Clement (Botosani,RO)
- 08:00 Case report on a transthyretin-related amyloidosis caused by Leu32Val mutation and its interdisciplinary challenge.**
I Mattig (Berlin,DE)
- 08:00 Acute cardiogenic shock secondary to right ventricular myocarditis following recovery from COVID-19 infection.**
A Mehlman (Chicago,US)
- 08:00 Reverse Takotsubo cardiomyopathy - an unexpected association with renal calculi.**
S Hussain (Chicago,US)
- 08:00 Hot Stone Heart.**
EG Elchinova (Bern,CH)
- 08:00 Acute Pericarditis followed by Transient Myocarditis: A case of immune checkpoint inhibitor related cardiotoxicity in a 63 year old female.**
A Hasnie (Birmingham,US)
- 08:00 A case of cardiac amyloidosis initially mis-diagnosed as BRASH syndrome.**
Y Kate (Worcester,US)
- 08:00 Silent but deadly: a rare cause of progressive dyspnea.**
P Araujo Leite Medeiros (Gualtar - Braga,PT)

Learning Objectives:

Categories:

Acute coronary syndromes in patients presenting without persistent ST-segment elevation**Session Number: 707**Chairpersons:

- 08:00 Multi-vessel Coronary Vasospasm with Associated Myocardial Bridging: a case report.**
J Tomlinson (Bristol,GB)
- 08:00 A case of diving into MINOCA.**
M Mantzouranis (Athens,GR)
- 08:00 Coronary Vasospasm: The Deceiving Heart.**
AM Fawzy (Birmingham,GB)
- 08:00 Spontaneous Coronary Artery Dissection in a Young Female Taking Lisdexamfetamine.**
U Hasnie (Birmingham,US)
- 08:00 An infrequent clinical presentation of a very rare coronary entity.**
R Gonzalez-Manzanares (Cordoba,ES)
- 08:00 Transradial percutaneous coronary intervention of an anomalous left main coronary artery arising from the right sinus of Valsalva presented as acute coronary syndrome.**
S Graidis (Thessaloniki,GR)
- 08:00 A Case of Eosinophilic Myocarditis Mimicking Acute Coronary Syndrome.**
K Tsuda (Takatsuki,JP)

Learning Objectives:

Categories:

Management of acute myocardial infarction in patients presenting with ST-segment elevation**Session Number: 708**Chairpersons:

- 08:00 Multimodality imaging for diagnosis of a left ventricular free-wall rupture after acute myocardial infarction: Too small to be seen?**
J Silva Estrada (Ciudad De Mexico,MX)
- 08:00 Lessons from Patient with Free Wall Rupture; Think Twice and Act Wise.**
O Alkhalaila (- ,QA)
- 08:00 Ventriculoseptal Rupture: Delayed presentation during COVID-19.**
J Mceldrew (Philadelphia,US)
- 08:00 Stress induced cardiomyopathy in a patient with congenital coronary anomaly.**
A Dhariwal (Mumbai,IN)
- 08:00 Coronary Arteries Aneurysms and Ectasia in a patient with STEMI: a tricky management.**
S Persampieri (Crevoladossola,IT)
- 08:00 Bioresorbable scaffolds for the management of spontaneous coronary artery dissections.**
S Graidis (Thessaloniki,GR)
- 08:00 Successful Mechanical Thrombectomy of Massive Pulmonary Embolism Unresponsive to Thrombolytics.**
C Huff (Columbus,US)
- 08:00 Quarter Dose rtPA in an In-Transit Thrombus Complicating Pulmonary Embolism.**
A Ponce-Barahona (Monterrey,MX)

Learning Objectives:

Categories:

Adult congenital heart disease

Session Number: 709

Chairpersons:

- 08:00 Single coronary artery arising from the right sinus of Valsalva and coronary fistulae presenting with atrial fibrillation.**
P Guardia Martinez (Malaga,ES)
- 08:00 Rhythm and blues: a young adult with tachyarrhythmia and ebstein anomaly.**
I Dela Cruz - Enriquez (Las Pinas City,PH)
- 08:00 Pregnancy and pulmonary hypertension.**
J Latal (Olomouc,CZ)
- 08:00 First report of a muscle bundle crossing the right atrial cavity in a Caucasian patient.**
T Kofler (Luzern,CH)
- 08:00 A case of ALCAPA syndrome. A Multimodal Imaging Approach.**
A Jara Nevarez (Durango,MX)
- 08:00 Transatrial approach in fontan circulation, an alternative pathway to pacing therapy.**
DG Blanco (Papantla De Olarte,MX)
- 08:00 Atrial flutter revealing a partial Atrioventricular septal defect in a 35 years old woman.**
B Amine Mamoun (Casablanca,MA)
- 08:00 Challenges to Diagnose Chest Pain and Shortness of Breath in Complex Congenital Heart Defect.**
P Simkus (Kaunas,LT)
- 08:00 Multimodality Approach in a Combined Secundum Type Atrial Septal Defect and Pulmonary Valve Stenosis with Dilated Main Pulmonary Artery.**
M Loquias (Makati City,PH)
- 08:00 Rare mechanical complication leading to incomplete endothelialisation of an AMPLATZER PFO occluder device and delayed recurrent paradoxical emboli in a teenage boy.**
Z Butt (Dublin,IE)
- 08:00 Multi-modality imaging diagnosing incidental murmur leading to the discovery of large right coronary fistula draining into the right atrium.**
PK Pyae (Watford,GB)
- 08:00 Simultaneous transcatheter pulmonary and tricuspid valve-in-ring implantation.**
D Faim (Coimbra,PT)

Learning Objectives:

Categories:

Aortic disease

Session Number: 710

Chairpersons:

- 08:00 STEMI in Aneurysmal Coronary Arteries in Loeys-Dietz Syndrome.**
S Biswas (Edinburgh,GB)
- 08:00 Acute aortic syndrome in young population. A contemporary approach.**
A Brindis Aranda (Mexico City,MX)
- 08:00 Multilobulated Sinus of Valsalva Aneurysm Dissecting Into the Interventricular Septum (DAIS): A Rare Case Report.**
S Ghosh (Chandigarh,IN)
- 08:00 Successful Transcatheter Occlusion of a Left Ventricular Outflow Tract Pseudoaneurysm Using a «Plug and Coil» Strategy.**
M Robert-Halabi (Montreal,CA)

Learning Objectives:

Categories:

Cancer treatments and cardiovascular toxicity

Session Number: 711

Chairpersons:

- 08:00 Spreading the Love.**
N Laskar (London,GB)
- 08:00 Multiple ring-like masses in the right atrium.**
A Tsoukas (Vironas (Athens),GR)
- 08:00 ST elevation during chemotherapy - the importance of recognizing the uncommon.**
R Porudominsky (Miami Beach,US)
- 08:00 Cardiac PEComa: An Enigmatic Tumour with Malignant Potential.**
A Maryniak (Brooklyn,US)

Learning Objectives:

Categories:

Management of cardiovascular disease during pregnancy**Session Number: 712**Chairpersons:

- 08:00 Amniotic fluid embolism presenting with an acute ST-elevation myocardial infarction during labor.**
C Gieres (Luzern,CH)
- 08:00 Incessant atrial tachycardia during pregnancy: a successful ablation without fluoroscopy.**
J Mesquita Guimaraes (Vila Nova De Famalicao,PT)
- 08:00 Managing Symptomatic Aortic Stenosis during Pregnancy: A Case Report**
A Ejaz (Kansas City,US)

Learning Objectives:

Categories:

Chronic coronary syndromes

Session Number: 713

Chairpersons:

08:00 Reduceing microvascular angina.
A Banai (Tel Aviv,IL)

**08:00 When Armamentarium Becomes Foe: Nitrates in Coronary Artery Ectasia. A Case
Report on Diffuse Coronary Ectasia.**
F Lim (Davao,PH)

Learning Objectives:

Categories:

Imaging and prevention

Session Number: 714

Chairpersons:

08:00 Right Atrial Mass: Thrombus or Metastasis? - A diagnostic challenge.
N Giyanani (Morristown,US)

08:00 The Role of Pre-participation Cardiac Evaluation in Management of Athlete with PVC-Induced Cardiomyopathy: A Case Report.
J Norouzi (Tehran,IR)

Learning Objectives:

Categories:

Myocardial revascularisation/myocardial infarction/hypertrophic cardiomyopathy**Session Number: 715**Chairpersons:

- 08:00 Late percutaneous closure of a ventricular septal defect as complication of myocardial infarction.**
R Esquivel Sifuentes (- ,MX)
- 08:00 Complexity of calcium modification in left main bifurcation percutaneous coronary intervention.**
A Ratneswaren (London,GB)
- 08:00 Kounis syndrome in a patient with COVID-19: a case report.**
I Tverdokhlib (Ivano-Frankivsk,UA)
- 08:00 Takotsubo Cardiomyopathy and Left Ventricular Outflow Tract Obstruction.**
A Escudero (A Coruna,ES)
- 08:00 Multimodality imaging in the diagnosis of left ventricular non-compaction cardiomyopathy.**
S Suma (Parma,IT)

Learning Objectives:

Categories:

Infective endocarditis

Session Number: 716

Chairpersons:

08:00 Infective endocarditis causing by HACEK gram-negative bacteria presented with fever of unknown origin: The importance of early echocardiogram.

I Sharabi (Holon,IL)

08:00 Q fever myocarditis.

M Mohamad Alahmad (- ,US)

08:00 The heart holds answers of the brain: Native aortic valve endocarditis associated with intravenous drug use complicated by aortic valve insufficiency and intracranial haemorrhage.

B Myint (Kings Lynn,GB)

Learning Objectives:

Categories:

Diagnosis and management of pericardial diseases**Session Number: 717**Chairpersons:

08:00 Spontaneous hemopericardium as the sole manifestation of overanticoagulation in a patient post SARS-CoV-2 infection.

M Striessnig (Linz,AT)

08:00 Cardiac Tamponade as a complication of Graft Intolerance Syndrome.

A Puskoor (Brooklyn,US)

08:00 Propionic acidosis a rare cause of dilated cardiomyopathy.

I Rincon Gomez (Mexico City,MX)

Learning Objectives:

Categories:

Diagnosis and treatment of pulmonary hypertension

Session Number: 718

Chairpersons:

- 08:00 Severe biventricular myocardial involvement in Systemic sclerosis.**
M Marcos Mangas (Madrid,ES)
- 08:00 The role of cardiopulmonary exercise test in identifying and monitoring pulmonary veno-occlusive disease.**
T SEGURA DE LA CAL (Madrid,ES)
- 08:00 A Rare Cause of Dyspnoea in a Young Woman.**
V Ramakumar (Chennai,IN)
- 08:00 An Unusual Cause Of Dyspnoea Diagnosed During Right Heart Catheterisation: Sulphaemoglobinaemia.**
J O'Brien (Royston,GB)

Learning Objectives:

Categories:

Supraventricular tachycardia and syncope**Session Number: 719**Chairpersons:

- 08:00 Unusual presentation of arrhythmia-induced cardiomyopathy, case report.**
J Zambrano (Cali,CO)
- 08:00 Syncope as the initial manifestation of advanced nasopharyngeal carcinoma: a case report.**
S Zhang (- ,CN)
- 08:00 Cardiogenic Syncope as a Manifestation of a Primary Cardiac Tumor.**
S Arias (Ciudad De Mexico,MX)

Learning Objectives:

Categories:

Management of valvular heart disease

Session Number: 720

Chairpersons:

- 08:00 Aortic Pathology Secondary to Alpha-1 Antitrypsin Deficiency.**
A Younes (- ,US)
- 08:00 Extensive atrial and mitral prosthetic valve thrombosis linked to SARS-CoV2 infection.**
RA Mocan (Cluj-Napoca,RO)
- 08:00 A rare case of mitral valve regurgitation. The added value of 3D echocardiography.**
S Suma (Parma,IT)
- 08:00 Percutaneous repair of TAVI induced aortic pseudoaneurysm.**
L Unzue Vallejo (Madrid,ES)
- 08:00 Facilitating Same-Day Discharge Post TAVR With Adjunctive Technologies.**
O Abdelfattah (Morristown,US)
- 08:00 Obstructive Mechanical Mitral Prosthesis Treated with Low Dose Fibrinolysis.**
S Tan (Melbourne,AU)
- 08:00 Hearing Hoofbeats and Finding Hoarseness: a Case of Ortner's Syndrome.**
M Planek (- ,US)
- 08:00 A case of bioprosthetic mitral valve thrombosis masquerading as left atrial thrombus.**
SV Alampoondi Venkataramanan (Worcester,US)
- 08:00 Periprocedural Anticoagulation Management for Severe Rheumatic Mitral Stenosis and Atrial Fibrillation Undergoing Coronary Angiography.**
M Ali (Honolulu,US)

Learning Objectives:

Categories:

Ventricular arrhythmias and prevention of sudden cardiac death**Session Number: 721**Chairpersons:

- 08:00 Severe spasm at the proximal LAD segment during the epicardial PVC ablation.**
F Olgun (Istanbul,TR)
- 08:00 Sudden Cardiac Death in a 41 year old man with mitral valve prolapse.**
F Saladini (Padova,IT)
- 08:00 Ventricular tachycardia storm in Lamin A/C Cardiomyopathy A combined epicardial-endocardial radiofrequency ablation.**
V Anastasiou (London,GR)
- 08:00 Cardiac Biopsy Guided Therapy for Electrical Storm Ablation.**
EE Ozcan (Izmir,TR)
- 08:00 A novel large deletion in SCN5A as a cause of Brugada syndrome.**
J Scerri (Msida,MT)
- 08:00 Challenge accepted - from malignant arrhythmia to patent foramen ovale related stroke in an unusual case of arrhythmogenic cardiomyopathy.**
D Vinereanu (Bucharest,RO)
- 08:00 Cardiac arrest in a young woman with Diffuse Large B-Cell Lymphoma.**
M Milani (Galbiate,IT)

Learning Objectives:

Categories:

Best Clinical Cases Awards Session**Session Number: 800****Best cases from the Young**

Chairpersons: M Rubini Gimenez (Leipzig, DE) - D Atar (Oslo, NO)

Judges: SMA Sohaib (London, GB) - A Bohm (Bratislava, SK) - R Vidal-Perez (A Coruna, ES)

- 12:00** **An unusual pair: coronary artery fistula and coronary sinus ostium stenosis causing refractory angina.**
C Stefanescu Schmidt (Boston,US)
- 12:11** **Successful Treatment of Patent Ductus Arteriosus Accompanying Right-Sided Aortic Arch and Aberrant Left Subclavian Artery.**
AN Calik (Istanbul,TR)
- 12:22** **Takutsubo and SCAD, can they co-exist?**
M Daghem (Stafford,GB)
- 12:33** **Coronary sinus ostial atresia with persistent left superior vena cava: perilous lesion after Fontan procedure.**
A Hassan (Iowa City,US)

Learning Objectives:

Categories:

Young Investigator Awards Session in Thrombosis

Session Number: 801

Chairpersons: T Geisler (Tuebingen, DE) - HMM Van Beusekom (Rotterdam, NL)

Judges: G Gargiulo (Naples, IT) - V Roldan-Schilling (Murcia, ES) - C Christersson (Uppsala, SE)

10:30 JCAD enhances arterial thrombosis by regulating endothelial plasminogen activator inhibitor-1 and tissue factor expression
L Liberale (Schlieren,CH)

10:41 In vivo coronary artery thrombus imaging with 18F-GP1 PET-CT
E Tzolos (Edinburgh,GB)

10:52 GPVI inhibition by glenzocimab synergistically inhibits atherosclerotic plaque-induced platelet activation when combined with conventional dual antiplatelet therapy
F Alenazy (Birmingham,GB)

11:03 Sustained endothelial, coagulation and inflammatory cytokine activation without macrovascular dysfunction at 3 months after COVID-19: a reflection on SARS-CoV-2 induced thrombo-inflammation
L Willems (Nijmegen,NL)

Learning Objectives:

Categories: Abstract-Based Programme

Young Investigator Awards Session in Basic Science

Session Number: 802

Chairpersons: J van der Velden (Amsterdam, NL) - M Giacca (London, GB)

Judges: R Boon (Frankfurt, DE) - A Moretti (, DE) - T Guzik (Glasgow, GB)

- 10:30 RBM20-mutations induce disturbed splicing of calcium relevant genes and guides clinically therapy in different cardiomyopathies**
S Rebs (- ,DE)
- 10:41 Circulating microRNA-122-5p correlates with improvement in left-ventricular function after transcatheter aortic valve replacement and regulates viability of cardiomyocytes via extracellular vesicles**
Dr Hosen (Bonn,DE)
- 10:52 Gpr126 domains control different cellular mechanisms of ventricular chamber development**
S Srivastava (- ,DE)
- 11:03 CD69 expression in regulatory T cells protects from the immune-mediated damage after myocardial infarction**
R Blanco Dominguez (Madrid,ES)

Learning Objectives:

Categories: Abstract-Based Programme

Young Investigator Awards Session in Population Sciences

Session Number: 803

Chairpersons: E Prescott (Copenhagen, DK) - H Franco (Bern, CH)

Judges: C Baigent (Oxford, GB) - L Zuhlke (Cape Town, ZA) - N Kraenkel (Berlin, DE)

08:00 Benefits from optimised antihypertensive and statin treatment in high risk people
R Wu (London,GB)

08:11 Childhood bradycardia associates with atrioventricular conduction defects in older age: a longitudinal birth cohort study
C Topriceanu (London,GB)

08:22 Associations of maternal hypertensive disorders during pregnancy with offspring risks of ischemic heart disease and stroke: a Nordic cohort study
F Yang (Stockholm,SE)

08:33 Incidence of myocardial infarction, heart failure, and cardiovascular mortality in patients with peripheral artery disease: Nationwide trends between 1997 and 2016
S Kamil (Vallensbaek Strand,DK)

Learning Objectives:

Categories: Abstract-Based Programme

Young Investigator Awards Session in Clinical Cardiology

Session Number: 804

Chairpersons: F Verheugt (Amsterdam, NL) - J Magne (Limoges, FR)

Judges: F Andreotti (Rome, IT) - E Swahn (Linköping, SE) - C Gebhard (Zurich, CH)

08:00 Impaired myocardial energetics limits cardiac functional reserve and leads to exercise-induced pulmonary congestion in heart failure with preserved ejection fraction

M Burrage (Oxford,GB)

08:11 Evidence in Crisis: A closer look into the quality of published systematic reviews in the cardiology literature

A Abushouk (Cleveland,US)

08:22 Cardiovascular benefit of lowering LDL-C below 1 mmol/L (40 mg/dl)

N Marston (- ,US)

08:33 Artificial intelligence derived age algorithm after heart transplantation

Learning Objectives:

Categories: Abstract-Based Programme

Young Investigator Awards Session in Coronary Pathophysiology and Microcirculation

Session Number: 805

Chairpersons: D Tousoulis (Athens, GR) - T Padro (Barcelona, ES)

Judges: DJ Duncker (Rotterdam, NL) - R Mehran (New York, US) - A Petronio (Pisa, IT)

- 08:00 Trans-stenotic pressure gradient as derived from CT improves patient management: ADVANCE registry**
H Takagi (Vancouver,CA)
- 08:11 A human arterial transcriptomic signature predicts major adverse cardiac events and identifies novel, redox-related therapeutic targets within the vascular wall**
CP Kotanidis (Oxford,GB)
- 08:22 Glycaemic status and reperfusion injury in patients with st-segment elevation myocardial infarction**
M Reindl (Innsbruck,AT)
- 08:33 Prognostic value of fractional flow reserve using computed tomography for predicting major adverse cardiac events and mortality in kidney transplant candidates**
J Dahl (Silkeborg,DK)

Learning Objectives:

Categories: Abstract-Based Programme

Nursing and Allied Professions Investigator Awards

Session Number: 806

Chairpersons: S Antoniou (London, GB) - L Klompstra (Norrköping, SE)

Judges: P Moons (Leuven, BE) - I Uchmanowicz (Wrocław, PL) - M Barisone (Novara, IT)

- 10:30 Mortality and cardiovascular outcomes in patients presenting with non-ST elevation myocardial infarction with no standard modifiable cardiovascular risk factors: results from the SWEDEHEART registry**
- 10:41 Effects of cardiac rehabilitation on the two-year prognosis of patients with heart failure: a multicentre prospective cohort study**
T Adachi (Kasugai,JP)
- 10:52 Associations between kidney function and outcomes following cardiac rehabilitation in patients with heart failure**
N Hamazaki (Sagamihara,JP)
- 11:03 The effectiveness of M-Health associated with cardiac rehabilitation on functional capacity and cardiovascular risk factors: a systematic review and meta-analysis**
A Campagnolo Goncalves Toledo (- ,BR)

Learning Objectives:

Categories: Abstract-Based Programme

Young Investigator Awards Session in Sudden Cardiac Death

Session Number: 807

Chairpersons: M Brignole (Lavagna, IT) - V Delgado (Leiden, NL)

Judges: C Hamm (Bad Nauheim, DE) - KE Odening (Bern, CH) - A Moya I Mitjans (Barcelona, ES)

- 12:00** **Generation and phenotyping of a novel knock-in mouse model of desmoplakin dependent arrhythmogenic cardiomyopathy.**
A Di Bona (Padova,IT)
- 12:11** **In-depth phenotypic characterisation of myocardial fibrosis by cardiovascular magnetic resonance predicts sudden cardiac death in coronary heart disease: a long-term prospective outcome study.**
RE Jones (London,GB)
- 12:22** **External validation of the HCM Risk-Kids model for predicting sudden cardiac death in childhood hypertrophic cardiomyopathy**
G Norrish (London,GB)
- 12:33** **Prospective assessment of risk factors for appropriate ICD intervention in patients with ischemic cardiomyopathy**
D Haanschoten (Zwolle,NL)

Learning Objectives:

Categories: Abstract-Based Programme, Spotlight of the Congress