Evidence based cardiovascular prevention
A lifelong endeavour
Welcome Address

Dear Colleagues and Friends,

Welcome to EuroPrevent 2018!

On behalf of the European Association of Preventive Cardiology (EAPC) we would like to welcome you to Ljubljana for the annual EAPC congress.

Ljubljana is a green city, friendly for its residents and visitors alike. Its social and environmental awareness have a long tradition that you will feel with every step, and it is no coincidence that the city was named the European Green Capital of 2016. Car traffic is restricted in the centre, leaving the leafy banks of the emerald-green Ljublanica River, which flows through the city’s heart, free for pedestrians and cyclists. Ljubljana has many museums, including the National Museum of Slovenia, displaying historic exhibitions, and the Museum of Modern Art, home to 20th-century Slovene paintings and sculptures.

EuroPrevent has been a key international scientific event for cardiovascular disease prevention and awareness for over 10 years now. It provides the opportunity for clinicians and scientists from all over the world to gather, to learn about new advances and to exchange scientific ideas and knowledge in a distinctive environment. Through ‘Case-based’ symposia and ‘How-To’ sessions to the traditional ‘Posters’, ‘EAPC Masterclasses’ and ‘Young Investigator Awards’ we hope that you will find this congress full of opportunities to learn, interact and discover.

Medical practice evolves daily as a result of coming together of technology, knowledge and process. By focusing the congress theme on “Evidence based cardiovascular prevention, a lifelong endeavour” EuroPrevent 2018 aims to explore the positive actions we can take at all stages of life to help prevent cardiovascular disease.

This congress has grown quickly to become the leading event of the year in preventive cardiology and we encourage you to mark each year’s event in your diary. The next edition will be in Lisbon, Portugal, from the 11 to 13 April 2019.

Thank you for being with us - enjoy EuroPrevent and enjoy Ljubljana!

Diederick Grobbee
European Association of Preventive Cardiology (EAPC) President

Jean-Paul Schmid
Congress Programme Committee Chairperson

Zlatko Fras
Slovenian Society of Cardiology (SEC) President
2016-2018 EAPC Executive Board

Diederick Grobbee  
President

Paul Dendale  
President Elect

Antonio Pelliccia  
Past President

Marco Guazzi  
Treasurer

Uwe Nixdorff  
Secretary

EuroPrevent 2018 Congress Programme Committee

Jean-Paul Schmid, Chairperson
Zlatko Fras, Co-Chairperson & Local Host

Members:
Heinz Völler
Paul Leeson
Maja-Lisa Løchen
Andre La Gerche
Sarah Eichler
Paolo Emilio Adami
European Association of Preventive Cardiology (EAPC)

At EAPC, we aim at ‘promoting excellence in research, practice, education and policy in cardiovascular health, primary and secondary prevention’ through our annual congress, our official publications, educational activities and practical tools. Our ambition is to prevent the incidence of cardiovascular disease by implementing strategies to reduce the burden of cardiovascular disease risk factors, and develop appropriate models for healthy cardiovascular lifestyle.

ESC/EAPC Stand

Visit our stand and learn how the EAPC can support you in your daily tasks and help you move forward your career. Discover the opportunities and tools available:

• Get a SCORE Risk Chart
• Get a free copy of the European Guidelines on CVD Prevention in Clinical Practice
• Test your knowledge with the EAPC Quizzes
• Get information about the ESC Prevention of CVD Programme
• Buy your copy of the ESC Textbook & Handbook of Preventive Cardiology, the official EAPC books: 30% discount at the stand

Join the expert community by becoming an EAPC Member
- Special offer at the Congress: 30% discount on EAPC Silver membership

Key Facts & Figures

- 6,700+ Active members (in 2017)
- 70+ Volunteers in the Board, Sections, Committees & Task Forces
- 60 National Cardiovascular disease Prevention Coordinators in ESC member countries
- 30+ eLearning courses
- 4 Training courses per year

Publications

The European Journal of Preventive Cardiology is the official journal of the EAPC and the world’s leading preventive cardiology journal with an Impact factor at 3.606 (2016).
EAPC, the largest community for preventive cardiology

Take the next step

Join your community

- Benefit from online access to publications, congress resources and eLearning courses
- Get discounts on EuroPrevent congress, educational courses and publications
- Build your network and get involved in the association

EAPC, the largest community for preventive cardiology

www.escardio.org/EAPC-membership

Want more?

Mix and match the ESC membership packages that best suit your needs for unique savings and benefits.
Congress activities not to miss

EuroPrevent, YOUR annual congress, is the premiere international forum where strategies for a universal approach towards the prevention of cardiovascular diseases are discussed.

Networking opportunities
Networking Reception
Thursday 19 April 19:15 in the EAPC Members’ Lounge

For the Young Community
Young Community open meeting
Friday 20 April 16:30 - 18:00 in the Board Meeting Room

Young Community Cocktail
Friday 20 April at 19:00
Get your voucher at the ESC/EAPC stand - places are limited

EAPC Sports Cardiology Section (open meeting)
Learn about the Section’s activities and meet Sports Cardiology experts
Friday 20 April 14:00 - 16:00 in the Board Meeting Room

EAPC General Assembly: meet with the Board!
Friday 20 April - 10:00-10:40 - room STIH
Followed by a cocktail in the EAPC Members’ Lounge

EAPC quizzes
• Cardiopulmonary Exercise Testing (CPX) quiz
  Thursday 19 April morning break (10:00), presented by Matthias Wilhelm
• Exercise prescription (EXPERT flow chart) quiz
  Thursday 19 April afternoon break (15:30), presented by Dominique Hansen
• The Risk Assessment quiz
  Thursday 19 April afternoon break (16:00), presented by Vassilis Vassiliou
• Sports Cardiology (ECG) quiz
  Friday 20 April afternoon break (15:30), presented by Michael Papadakis

Young Investigator Award Sessions
• Sport Cardiology
  Thursday 19 April - 08:30-10:00 - Conference Room E3
• Cardiac Rehabilitation
  Thursday 19 April - 16:30-18:00 - Conference Room E3
• Exercise Basic & Translational Research (EBTR)
  Friday 20 April - 08:30-10:00 - Conference room E3
• Prevention, Epidemiology & Population Science (PEP)
  Friday 20 April - 16:30-18:00 - Conference room E3

Meet with other EAPC Members
The EAPC Members’ Lounge is an exclusive access area that allows members to take a break, meet up with colleagues, check their emails or simply relax. The lounge is located on level -1 and is reserved to EAPC Ivory, Silver and Gold members.
Get Involved

Resuscitate your life saving skills!

Organised in partnership with
ERC (European Resuscitation Council)

EAPC and ERC have the pleasure to offer delegates 90-minute refresher workshops on cardiopulmonary resuscitation (CPR), free of charge. The content of these workshops is based on the latest ERC guidelines. ERC will send a certificate of attendance to participants after the congress.

Pre-register at the stand, on Level -2, as space is limited. Once registered, please arrive 5 minutes before the start of the session to assure your place.

Workshops are located on Level -2 with the following schedule:

**Thursday 19 and Friday 20 April:**
08:30 - 10:00, 11:00 - 12:30, 14:00 - 15:30 & 16:30 - 18:00

**Saturday 21 April:**
08:30 - 10:00 & 11:00 - 12:30

Photo competition

The chance to win your free registration to EuroPrevent 2019 in Lisbon, Portugal.

Take a picture at the congress that best represents the reason for participating in EuroPrevent and send it to europrevent@escardio.org. The three best photos as judged by the Congress Programme Chair will be awarded free registration for next year's congress.

**Rules:**
- One photo per delegate
- The photo must be taken at the congress venue
- Include your name when you send the photo by email
  Photos must be submitted to europrevent@escardio.org by midnight on 20 April 2018.

Your photo may be published on the ESC Facebook & Twitter accounts.
Search for ESC Congresses in App Store® / Google play

EuroPrevent 2018 is now a part of the ESC Congresses app: find all our congresses on one app

www.escardio.org/europrevent
General and practical information

Consult the Programme

- **Scientific Programme & Planner:**
  Available on [www.escardio.org/europrevent](http://www.escardio.org/europrevent)
- **Mobile App** is the fastest way to search sessions, speakers and topics. EuroPrevent 2018 is now a part of ESC Congresses App!
  Search for “ESC Congresses” in the App Store® or in Google play, download the app and install EuroPrevent content.

Consult the Abstracts

All accepted abstracts are published in an online supplement of the *European Journal of Preventive Cardiology* and are available through the Scientific Programme & Planner and the Mobile App.

Congress News

Read about the scientific highlights of the congress in the congress news or in the electronic news delivered to your mailbox every day.

Certificates

Pick-up your certificate of attendance from the registration desks from the afternoon of Friday 20 April onwards.

Certificates of presentation for abstract presenters can be requested at the poster assistance desk in the poster area and will be sent by email after the congress.

Poster presenters are required to come to the Poster Assistance desk to sign a form confirming their presence and presentation.

Abstracts not withdrawn prior to the event and not presented will be considered as “not presented”. The abstract will therefore not be published in the EJPC online abstract supplement, will be removed from the congress publications (online SP&P and Mobile App) and the certificate of presentation will not be delivered.

Continuing Medical Education (CME) accreditation

EuroPrevent 2018 is accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists.

The EACCME is an institution of the European Union of Medical Specialists (UEMS), [www.uems.net](http://www.uems.net)

EuroPrevent 2018 is designated for a maximum of 19 hours of European external CME credit. Each medical specialist should claim only those hours of credit that he/she actually spent in the educational activity.
International recognition of EACCME Credits Europe: UEMS-EACCME has signed agreements of recognition of EACCME credits with the following countries in Europe: Austria, Belgium, Croatia, Cyprus, Finland, Georgia, Greece, Hungary, Ireland, Regione Lombardia, Luxembourg, Malta, Norway, Poland, Romania, Slovakia, Slovenia, Spain, Sweden, Turkey and United Kingdom.

USA: Through an agreement between the European Union of Medical Specialists and the American Medical Association, physicians may convert EACCME credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME credits to AMA credits can be found at www.ama-assn.org/education/uemseaccme-cme-credit-recognition.

Canada: Live educational activities occurring outside of Canada, recognised by the UEMS-EACCME for ECMEC credits are deemed to be Accredited Group Learning Activities (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada. More information on www.royalcollege.ca/rcsite/cpd/providers/international-accreditation-agreements-e#uems

Internet Connection
Free wifi is available at the congress center however please note that connectivity is subject to the volume of users.

Wifi name: europrevent-congress
Password: europrevent-congress

Internet Corner
Internet accessible computers and a printer are available on Level -2.

Career Cafe
The Career Cafe is the meeting place for the future generation of specialists to interact with the current leaders of their specialty. During individual interviews of 12 minutes, the pre-selected applicants will have the opportunity to seek career development advice and recommendations from renowned professionals with years of successful careers behind them. Two Cafes will be held this year, in the Exhibition area during the afternoon coffee breaks on Thursday and Friday, with pre-registered applicants and EAPC mentors. Be sure to register for next year’s event!

Journal
Delegates registered at the full congress Standard fee or EAPC Member fee are entitled to a complimentary online subscription to the European Journal of Preventive Cardiology for 1 year (2019).
As an integral part of the congress, the exhibition provides delegates with the opportunity to exchange with key industry experts on critical areas of development and research in cardiovascular products and therapies. The exhibition will be a central hub for scientific discussion and exchange during the congress.

**Exhibition Opening Hours**

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<td>Thursday 19 April</td>
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**Exhibition**

**Exhibitors***

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<td>BTL</td>
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<td>Cardiac Risk in The Young</td>
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<td>COSMED</td>
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<td>DSM Nutritional Products AG</td>
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<td>EXPERT Tool</td>
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**Satellite Symposia***

Delegates are cordially invited to attend a series of Satellite Symposia included in the EuroPrevent 2018 scientific programme. These sessions will offer pertinent data on the latest scientific information and developments from the industry.

For further information, please refer to the Scientific Programme daily sections, the Scientific Programme & Planner and the Mobile App.

- Canon Medical Systems Europe
- DSM Nutritional Products AG
- Krka DD Novo Mesto
- Novartis Pharma AG
- Physicians Academy for Cardiovascular Education
- SERVIER

*As of 15 March 2018*
Company and Product Descriptions

Descriptions provided are for general information and do not engage the responsibility of the ESC.

BTL B400
Tel: +420 220517012
Email: sales@btlnet.com
Website: www.btlnet.com
Based on many years of standing experience in manufacturing of safe and reliable equipment, BTL offers a full range of non-invasive cardiology products.
Resting ECG machines
Sudden Cardiac Death screening software
CardioPulmonary Exercise Test systems
ECG Holters
Ambulatory Blood Pressure Monitors
Spirometers
The BTL cardiology products stand out for their fast and easy operation, reliability and innovative features. Reflecting the latest trends in cardiology and providing an excellent price/performance ratio, the BTL units are an ideal investment for medical professionals. The product line contributes to our goal: manufacturing highly competitive products and providing excellent customer care support world-wide.

Cardiac Risk in The Young A300
Email: azra@c-r-y.org.uk
Website: www.c-r-y.org.uk
Cardiac Risk in the Young (CRY) was established in 1995 to prevent young sudden cardiac deaths (YSCD, SADS) through awareness, screening and research and to support affected families. CRY funds fast-track services at the CRY Centre for Inherited Cardiovascular Conditions and Sports Cardiology and the CRY Centre for Cardiac Pathology.

COSMED E200
Email: info@cosmed.com
Website: www.cosmed.com
COSMED is a leading manufacturer of cardiopulmonary solutions for the assessment of exercise capacity in healthy subjects or clinical population (cardiovascular diseases, pre-op assessment, cardiac rehaibiilation). COSMED solutions include: fully-featured metabolic carts, portable CPET solutions, full-disclosure stress PC-ECGs, advanced 6MWT, spirometers and an extensive range of ergometers for clinical applications.

DSM Nutritional Products AG B100
Wurmisweg 576, 4303 Kaiseraugst Switzerland
Email: info.dnp@dsm.com
Website: www.dsm.com
DSM – Bright Science. Brighter Living.™
Royal DSM is a global science-based company active in health, nutrition and materials. By connecting its unique competences in Life Sciences and Materials Sciences DSM is driving economic prosperity, environmental progress and social advances to create sustainable value for all stakeholders simultaneously. DSM delivers innovative solutions that nourish, protect and improve performance in global markets such as food and dietary supplements, personal care, feed, medical devices, automotive, paints, electrical and electronics, life protection, alternative energy and bio-based materials. More information can be found at www.dsm.com.

European Society of Preventive Cardiology (EAPC) / European Society of Cardiology (ESC) C100
Tel: +33 492 947 600
Website: www.escardio.org
The European Association Prevention Cardiology (EAPC) is a branch of the European Society of Cardiology (ESC), representing over 6,700 healthcare professionals. The EAPC aims at promoting excellence in research, practice, education and policy in cardiovascular health, primary and secondary prevention, through the European Journal of Preventive Cardiology (EJPC), EuroPrevent congress, educational events and professional networking.
**Company and Product Descriptions**

*Descriptions provided are for general information and do not engage the responsibility of the ESC.*

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**EXPERT Tool**  
Agoralaan, Building A  
3590 Diepenbeek, Belgium  
Email: expert-tool@uhasselt.be  
Website: expert-tool.edm.uhasselt.be

The EXPERT tool offers digital, interactive decision support tool for exercise prescription. This pilot tool is based on the EXPERT Flowchart (EXercise Prescription in Everyday practice & Rehabilitation Training), developed by the University of Hasselt, in collaboration with the European Association of Preventive Cardiology. This flowchart assists physicians and healthcare professionals in choosing and adopting the optimal exercise intervention in patients with various CVDs and/or a combination of risk factors.

The EXPERT tool is available as a web-based software. Its key features are:

- Personalised exercise prescriptions
- Get exercise recommendations tailored to specific patients' pathologies
- Get safety precautions
- Get to know when to exercise caution while prescribing exercise recommendations for your patients
- Export the recommendation to the patient record
- Export each recommendation to a PDF file
- Browse the patients' prescription history
- Revise the previous exercise recommendations that have been given to a patient and compare them to the current recommendation.

**Training centre**

Keep your exercise prescription skills sharp by completing the training cases you can find in the EXPERT tool. There are 64 cases of patients with CVD with different levels of complexity. Compare your recommendation for these cases with the ones generated by the EXPERT tool, and thus, stay up-to-date with the latest EAPC recommendations.

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**Krka d.d. Novo mesto**  
Email: breda.zagar@krka.biz  
Website: www.krka.biz

Krka is among top generic pharmaceutical companies in the world. Krka's basic line of business is the production and sale of prescription pharmaceuticals, non-prescription products and animal health products. The company's focus is on the development of innovative generic medicines, i.e. generic medicines with added value, which it markets under its own brands, produced from attested active ingredients, using advanced methods and the latest technology. Medicines for the treatment of cardiovascular diseases are Krka's key therapeutic area and are used by millions of patients all over the world.

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**Oxford University Press**  
Email: medicine.books.uk@oup.com  
Website: www.oup.com

Oxford University Press is proud to partner with the European Society of Cardiology to publish some of the world’s leading cardiovascular medicine resources, including The ESC Textbook of Preventive Cardiology and The ESC Handbook of Preventive Cardiology. Visit our stand for an exclusive discount on books and to find out more about our ‘Best of ESC’ journals collection.

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**Renew Health Ltd**  
Tel: +353 90 646 546  
Email: info@renewgroup.eu  
Website: www.renewtherapy.co.uk

Renew ECP Therapy is a non-invasive, ECG-optimised, compression treatment. Widely regarded as an effective method to increase blood flow, ECP Therapy can aid in improving quality of life, cardio vascular efficiency and exercise tolerance in patients with cardiovascular disease.

The physiological benefits of this treatment have clinically shown to provide improvement in vasodilation, increased VO2 and increased blood flow. Obtaining a full cardio vascular workout without the physical stress can benefit patients who are inactive and seeking a more active and independent life.

The company vision is to discover, develop and commercialise pioneering technologies and solutions to make lives better.
Company and Product Descriptions

Descriptions provided are for general information and do not engage the responsibility of the ESC.

SAGE Publishing Ltd
Tel: +44 207324 8500
Fax: +44 207324 8600
Email: joanne.mccluskey@sagepub.co.uk
Website: uk.sagepub.com
Sara Miller McCune founded SAGE Publishing in 1965 to support the dissemination of usable knowledge and educate a global community. SAGE publishes more than 1,000 journals and over 800 new books each year, spanning a wide range of subject areas. Our growing selection of library products includes archives, data, case studies and video. SAGE remains majority owned by our founder and after her lifetime will become owned by a charitable trust that secures the company’s continued independence. Principal offices are located in Los Angeles, London, New Delhi, Singapore, Washington DC and Melbourne. www.sagepublishing.com

SERVIER
Email: sophie.nisse-durgeat@servier.com
Website: servier.fr
Servier is an international and independent pharmaceutical company governed by a non-profit foundation. Servier is committed to therapeutic progress to serve patient needs with the help of healthcare professionals. Operating in 148 countries, Servier has 21600 collaborators and a turnover of 4.152 billion euros in 2017. Entirely independent, Servier is able to reinvest 25% of its total revenue (excluding generics) into R&D, and all profits are used for further development.
Servier is a key player in cardiology and hypertension – number 2 in Europe, number 8 worldwide – and has 14 products on the market (with around 13 million patients treated worldwide) and several new fixed-dose combinations and new molecular entities in Research or Development phase.

The Japanese Association of Cardiac Rehabilitation
Email: kubotamy@takii.kmu.ac.jp
Website: www.jacr.jp/web/en
History
The Japanese Cardiac Rehabilitation Research Conference was first convened in 1978. Seventeen years later, the Japanese Association of Cardiac Rehabilitation was formally established in 1995.
Purpose
The objectives of this association, for fulfillment across a broad spectrum of society, are to conduct research concerning cardiac rehabilitation and facilitate resulting clinical applications, to strive toward providing education in the field while disseminating that knowledge and to contribute toward promoting improved health and welfare through advancements in clinical medicine.

Wisepress Online Bookshop
Email: bookshop@wisepress.com
Website: www.wisepress.com
Wisepress.com, Europe’s leading conference bookseller, attend around 200 conferences every year. We have an extensive range of books and journals relevant to the themes of this conference available at our booth. We also have a comprehensive range of STM titles available on our online bookshop. Follow us on Twitter @WisepressBooks.
THURSDAY, 19 APRIL 2018
Morning Sessions

08:30 - 10:00  CASE-BASED SYMPOSIUM  Linhart Hall

**Identifying and assessing risk for cerebrovascular disease - Case demonstrations**
Chairpersons: V. Vassiliou (Cambridge, GB); M.L. Lochen (Tromso, NO)

- Identification of arrhythmia in cryptogenic stroke.
- Evaluation of device recordings for arrhythmia detection and optimal use for anticoagulation in stroke.
- Appreciation of cardiovascular risk factors that can increase the incidence of atrial fibrillation.
- Personalisation of medical therapy in patients with atrial fibrillation and acute coronary syndromes.

08:30  Embolic stroke of undetermined source: how to screen for atrial fibrillation?
P.A. Chousou (Cambridge, GB)  1

08:52  Definition of atrial fibrillation from device recordings and indications for anticoagulation.
I. Zupan (Ljubljana, SI)  2

09:15  Prevention of atrial fibrillation: optimal blood pressure control in different clinical settings.
P. Jankowski (Krakow, PL)  3

09:37  Atrial fibrillation in patients after acute coronary syndromes and stent implantation:
individualisation of dual antithrombotic treatment anticoagulation.
C. Chrysohoou (Athens, GR)  4

08:30 - 10:00  SYMPOSIUM  Kosovel Hall

**Relative effect of genetic risk and lifestyle in cardiovascular disease**
Chairpersons: T. Karlsen (Bodo, NO); P. Leeson (Oxford, GB)

Genomewide association studies have identified a multitude of single nucleotide polymorphisms associated with cardiovascular diseases. At the same time, lifestyle is a powerful modifier of cardiovascular risk. This session discusses the interaction between genetically determined and lifestyle-mediated cardiovascular risk.

08:30  The combined effect of genetic risk, diet and physical activity on the risk of cardiovascular diseases.
E. Sonestedt (Lund, SE)  5

08:52  The combined effect of genetic risk, diet and physical activity on obesity and incidence of diabetes.
C. Ling (Lund, SE)  6

09:15  Effect of family history and lifestyle change on incidence of diabetes.
M. Uusitupa (Kuopio, FI)  7

09:37  Study methods for combined effects of genetic risk and lifestyle.
T. Kilpelainen (Copenhagen, DK)  8

08:30 - 10:00  SYMPOSIUM  Stih Hall

**Evidence base for cardiac telerehabilitation and its core components in different cardiac patient populations**
Chairpersons: N. Bruining (Rotterdam, NL); G. Parati (Milano, IT)

08:30  EUCaRe: assessing the efficacy of telerehabilitation in the elderly cardiac patient.
M. Wilhelm (Bern, CH)  9

08:52  SmartCareCAD: assessing the (cost) effectiveness of web-based telerehabilitation in coronary artery disease.
R. Brouwers (Eindhoven, NL)  10

09:15  eEduHeart I: the role of ELearning and remote cardiac patient education.
I. Frederix (Rotselaar, BE)  11

09:37  RemoteCR: assessing the value of remote physical exercise monitoring.
J. Rawstorn (Melbourne, NZ)  12
THURSDAY, 19 APRIL 2018
Morning Sessions

08:30 - 10:00  YOUNG INVESTIGATOR AWARD ABSTRACTS  E3

Young investigator award session I Sport Cardiology
Chairpersons: A. La Gerche (Melbourne, AU); E. E. Solberg (Oslo, NO)
Judge(s): C. Schmied (Zurich, CH); A. Pressler (Muenchen, DE);
L. Serratosa Fernandez (San Lorenzo De El Escorial, ES); F. van Buuren (Bad Oeynhausen, DE)
Six abstracts selected for their outstanding quality. Finalists will be presenting their research in front of an appreciative audience, chairpersons and judges expert in the topic. A winner will be awarded a diploma and a prize of €500.

Sudden death and competitive sport in arrhythmogenic cardiomyopathy: a postmortem study of young athletes
Value of exercise testing in addition to standard evaluation for screening young athletes (15-35 year old)

Anomalous coronary artery origin and sudden cardiac death during exercise. Data from a large regional registry.
Normalization of T wave inversion in children practising sport: a prospective, 4 year follow-up study.

10:00 - 11:00  MODERATED POSTERS  Moderated Poster Area

Moderated Poster Session I
Chairpersons: J.C. Barthelemy (Saint-Etienne, FR); L. E. M. Vanhees (Leuven, BE)
Posters are on display in the exhibition area from 08:30 until 18:00.
During the session (10:00 - 11:00), each poster presenter will have 5 minutes to briefly summarise their poster to the moderators in front of a dedicated audience. A question-and-answer period of 2 minutes follows each presentation.

Sustained improvements in cardiac function and fitness one year after an exercise intervention in obese children
C. Bjork Ingul, K. Dias, M. Hosseini, S.M. Hollekim-Strand, T. Follestad, P.S. Davies, A.E. Tjonna, J. Coombes (Trondheim, NO; Brisbane, AU)

Referral for cardiac rehabilitation after acute myocardial infarction: insights from nationwide AMIS Plus registry 2005-2017
F. Witsass, M. Hermann, P. Erne, H. Rickli, D. Radovanovic (Zurich and St. Gallen, CH)
Increased physical activity postmyocardial infarction reduces mortality.
O.B. Ekblom, A. Ek, A. Cider, M. Leosdottir, M. Back, M. Borjesson (Stockholm, Gothenburg, Lund and Malmo, SE)
Do clinicians prescribe exercise similarly in patients with cardiovascular disease? Findings from the EAPC EXPERT-working group survey.
D.R.M.J. Hansen, G. Rovelo Ruiz, P. Doherty, M.C. Iliou, T. Vromen, S. Hinton, J. Frederix, M. Wilhel, J.P. Schmid, A. Abreu, M. Ambrosetti, E. Garcia Porrero, K. Coninx, P. Dendale (Hasselt, BE; York and NA, GB; Paris, FR; Amsterdam, NL; Bern and Barmelweid, CH; Lisbon, PT; Cunardo, IT; Leon, ES)
The impact of physical activity on cardiovascular disease and cardiometabolic risk factors in community dwelling older adults: results from the Irish Longitudinal Study on Ageing
S. Kilroy, G. Mckee, A. Lynch (Dublin, IE)

The impact of therapeutic compliance on the period of development of stent thrombosis after PCI
J. A. Mansurova, L.K. Karazhanova (Semey, KZ)

Prognostic role of post-operative in-hospital depression levels after exercise-based cardiac rehabilitation

Blood pressure response to maximal dynamic exercise testing in an athletic population
A. Pressler, A. Jaehnig, M. Halle, B. Haller (Munich, DE)

The impact of 12 weeks exercise training program on circulating soluble-Klotho in coronary artery disease patients
E. Radzishevski, C.H. Sherve, I. Maor, E. Goldhammer, U. Rosenschein, M.O. Saghiv (Haifa, IL; Bismarck, US)

Combined impact of healthy lifestyle factors on survival in high risk groups: results from the Molisani study
M. Bonaccio, A. Di Castelnuovo, S. Costanzo, M. Persichillo, C. Cerletti, M.B. Donati, G. De Gaetano, L. Iacoviello (Pozzilli, IT)

11:00 - 12:30   SYMPOSIUM Linhart Hall
Beyond medicines. Evidence of relaxation techniques for cardiovascular prevention and management
Chairpersons: C. Graf (Cologne, DE); M. Tiberi (Pesaro, IT)

Know the pros and cons of non-medical management of cardiovascular risk factors

11:00  Mind body practices.
J. A. Laukkanen (Jyvaskyla, FI)

11:22  Sauna.
J.P. Schmid (Barmelweid, CH)

11:45  Tai chi.
R. Stein (Porto Alegre, BR)

12:07  Yoga.
K. Madan (New Delhi, IN)

11:00 - 12:30   SYMPOSIUM Kosovel Hall
It doesn’t always work. Responders and non-responders in lifestyle interventions
Chairpersons: H. M. C. Kemps (Den Bosch, NL); N. Kraenkel (Berlin, DE)

Lifestyle interventions can be a powerful tool to reduce cardiovascular risk. However, not all patients can benefit from exercise or diet-based programmes. This session discusses reasons, including the impact of the genetic background, motivation and interaction with pharmacological therapy.

11:00  What can we learn from failed lifestyle interventions?
M. Wilhelm (Bern, CH)

11:22  Is it in the genes? Genetic determination of exercise effects.
E. Van Craenenbroeck (Edegem, BE)

11:45  Why some people benefit more than others. What differentiates responders from non-responders in lifestyle intervention trials?
T. Karlsen (Bodo, NO)

12:07  It works only if you do it! How to improve adherence in life style-based intervention programmes.
J. Keenan (Oxford, GB)
Cardiovascular consequences of drugs and substance abuse in athletes
Chairpersons: F. Furlanello (San Donato, IT); T. M. Moustafa (Zagazig, EG)
The objective of the session is to present the most common cardiovascular side effects of prescribed drugs, illicit or freely available substances in athletes, patients or young and fit individuals, that a physician might deal with in their daily practice.

11:00  Cardiovascular effect of anabolic steroids in athletes.
G. Christou (Preveza, GR)  

11:22  Pro-arrhythmic effect of prescribed substances in physically active patients.
L. Ziberna (Ljubljana, SI)  

11:45  Chemotherapeutic drugs and cardiac function. The contribution of exercise to maintain physical performance.
C. Lestuzzi (Aviano, IT)  

12:07  Energy drinks and stimulating substances in young and fit individuals.
P. E. Adami (Rome, IT)  

Rapid Fire Session I
Chairpersons: T. M. Moustafa (Zagazig, EG); Z. Reiner (Zagreb, HR)
Fast-paced and interactive session including presentation of 8 topic related abstracts.
Each presentation will be followed by questions and discussions with the audience moderated by the Chairpersons.

11:00  Cost-effectiveness of guideline adherence in coronary patients: results from the EUROASPIRE IV survey a registry from the European Society of Cardiology
D. De Smedt, L. Annemans, K. Kotseva, D. Wood, G. De Backer, D. De Bacquer (Ghent, BE; London, GB)  

11:11  LDL extracellular vesicle coagulation protein levels change after initiation of statin therapy in patients with sub-clinical atherosclerosis. Findings from the METEOR trial

11:22  Relationship between the shift of socioeconomic status and cardiovascular mortality
J. Sung, J.H. Choi, K.P. Hong (Seoul, KR)  

11:33  Excess mortality of non-participants indicates that low participation rates in health examination surveys bias population level risk factor estimates
H.K. Tolonen, P. Jousilahti, K. Borodulin, T. Harkanen, E. Vartiainen, K. Kuulasmaa (Helsinki, FI)  

11:45  Multiple vascular endothelial growth factor (receptor) polymorphisms modify the treatment benefit of ACE inhibitors on cardiovascular outcome
N. Buljubasic, M.H.W. Kappers, A. Dehghan, A. Versmissen, W.J. Remme, M.E. Bertrand, K.M. Fox, R. Ferrari, M.L. Simoons, H. Boersma, I. Kardys, K.M. Akkerhuis (Rotterdam, Breda and Rhoon, NL; Lille, FR; London, GB; Ferrara, IT)  

11:56  Endothelial microparticles mediated transfer of microRNA19b promotes atherosclerosis via targeting RNF11
C. Li, S.F. Li, L. Li, D. Hu (Beijing, CN)  

12:07  Possibilities of application of different genetic polymorphisms of apolipoproteins in the assessment of clinical severity, inhospital and longterm outcomes in patients with myocardial infarction
A. A. Inozemtseva, Y. A. Argunova, V. V. Kashitalap, O. L. Barbarash, L. A. Gordeeva (Kemerovo, RU)  

M. Mrgan, J.B. Gram, M.H. Olsen, B.L. Norgaard, J. Gram, N.P.R. Sand (Esbjerg, Holbaek and Aarhus, DK)  

Morning Sessions
**THURSDAY, 19 APRIL 2018**

**Lunch-time Sessions**

**12:45 - 13:45**

**SATELLITE SYMPOSIUM**

**Linhart Hall**

**The power of synergy**

**Sponsored by Krka, d. d., Novo mesto**

**Chairpersons:** Z. Fras (Ljubljana, SI)

- to recognise main gaps in treatment of dyslipidemia and hypertension in clinical practice.
- to learn about main clinical benefits of concurrent treatment of dyslipidemia and hypertension.
- to learn through presented clinical case how to apply solutions in clinical practice.

12:45  
Introduction: The power of synergy.  
Z. Fras (Ljubljana, SI)

12:50  
Challenges of concurrent treatment of dyslipidemia and hypertension.  
I. M. Graham (Wicklow, IE)

13:05  
Clinical benefits of concurrent treatment of dyslipidemia and hypertension.  
B. Jug (Ljubljana, SI)

13:20  
From science to practice: a patient case.  
M. Banach (Lodz, PL)

13:35  
Conclusion: The power of synergy.  
Z. Fras (Ljubljana, SI)

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**12:45 - 13:45**

**SATELLITE SYMPOSIUM**

**Stih Hall**

**Nutritional solutions for the reduction of hypertension and blood platelet aggregation**

**Sponsored by DSM Nutritional Products AG**

**Chairpersons:** M Eggersdorfer (Stein, CH)

**This Satellite Symposium will examine the potential therapeutic benefits of specific micronutrients for cardiovascular health.**

The learning objectives focus on understanding the protective mechanisms of omega-3 fatty acids and riboflavin (vitamin B2) to help reduce blood pressure of hypertensive individuals, as well as the role of water soluble tomato concentrate to alter platelet adhesion and aggregation behavior in blood. The Satellite Symposium will build on latest scientific advances and applications that can make a real difference to people’s health.

12:45  
Supplementation of vitamins and omega 3 fatty acids as a means of preventing the onset of hypertension.  
R. Winwood (Haverhill, GB)

13:00  
Riboflavin and blood pressure reduction.  
H. McNulty (Londonderry, GB)

13:20  
Water soluble tomato concentrate as a natural means of reducing platelet aggregation.  
N. O’Kennedy (Aberdeen, GB)
Preventing cardiovascular disease in patients with T2DM: how to apply novel outcome data with GLP-1 ra to clinical practice

Sponsored by PACE-CME: Physicians’ Academy for Cardiovascular Education, supported with an educational grant by Novo Nordisk.

Chairpersons: D.E. Grobbee (Utrecht, NL)

- Understand the relation between type 2 diabetes mellitus (T2DM) & Cardiovascular Disease.
- Identify the needs for novel approaches targeting T2DM in cardiovascular prevention.
- Explore results from recent cardiovascular outcome trials (CVOT) in T2DM.
- Discuss potential mechanisms and multifactorial effects of Glucagon-like peptide 1 receptor agonist (GLP-1 ra) contributing to cardiovascular benefits.
- Review results from recent GLP-1 ra outcomes trials, such as LEADER on CV and microvascular outcomes.
- Discuss practical implications from recent CVOTs on treatment and prevention strategies in patients with CV risk and T2DM.


D.E. Grobbee (Utrecht, NL)


F. D. R. Hobbs (Oxford, GB)

13:05 Diabetes: how to reduce risk from a cardiovascular perspective?  

D.E. Grobbee (Utrecht, NL)


L. Ryden (Stockholm, SE)

13:40 Discussion - Preventing cardiovascular disease in patients with T2DM: how to apply novel outcome data with GLP-1 ra to clinical practice.  

D.E. Grobbee (Utrecht, NL); F. D. R. Hobbs (Oxford, GB); L. Ryden (Stockholm, SE)
Sex differences in cardiovascular disease: the Full Spectrum  
Chairpersons: O. Barna (Kyiv, UA); L. Palmieri (Rome, IT)
Cardiovascular disease (CVD) continues to be the leading cause of death for women. The average lifetime risk of developing CVD in women at 50 years of age is ≈40%, and this percentage rises as the number of risk factors increases. To reduce CVD mortality and the overall CVD burden, focus on both primary and secondary prevention of CVD is necessary. This session will give an overview of traditional and novel risk factors, diagnosis, treatment, and prognosis of cardiovascular disease among women.

14:00  Sex differences in prevention and prognosis of cardiovascular disease: an epidemiological perspective  
M. Kavousi (Rotterdam, NL)

14:22  Sex-specific diagnosis and management of cardiovascular disease: a clinical perspective  
E. Swahn (Linköping, SE)

14:45  Cardiovascular disease treatment: a sex-specific pattern for adverse cardiovascular drug effects?  
J. E. Roeters Van Lennep (Rotterdam, NL)

15:07  Strategies to improve cardiovascular health in women.  
M. Stramba-Badiale (Milan, IT)

ECG interpretation and management in Sports Cardiology  
Purpose: Interactive and entertaining forum for learning based around ECG interpretation as the entry-point to athlete management. Four cases will be presented by young sports cardiology members. There will be audience participation and discussion amongst an expert panel, directed by the session chair.
Chairpersons: F. van Buuren (Bad Oeynhausen, DE); M. Papadakis (London, GB)

14:00  Case 1  
S. Gati (London, GB)

14:20  Case 2  
F. Schnell (Rennes, FR)

14:40  Case 3  
S. Castelletti (Milan, IT)

15:00  Case 4  
F. D’Ascenzi (Siena, IT)

15:20  ECG interpretation and management in Sports Cardiology: Concluding Panel discussions  
F. Carre (Rennes Cedex, FR); H. Heidbuchel (Antwerp, BE); S. Sharma (London, GB)

Applying eHealth strategies to promote and improve patient engagement in cardiovascular disease  
Chairpersons: G. Krstacic (Zagreb, HR); M. Mamas (Stockport, GB)

14:00  Patient engagement in establishing patient-centered cardiovascular care.  
E.G. Caiani (Milano, IT)

14:22  PATHway: technology enabled remote behavioural change  
R. Buys (Leuven, BE)

14:45  Evidence on the efficacy of eHealth strategies to improve patient engagement  
P. E. Dilaveris (Athens, GR)

15:07  Challenges for largescale eHealth deployment in cardiology and how to address these  
E. Lambrinou (Limassol, CY)
Central European forum on Preventive Cardiology
Chairpersons: Z. Fras (Ljubljana, SI); J. Perk (Oskarshamn, SE)

14:00-15:30 SPECIAL SESSION E3

14:00 Insight from Croatia
D. Milicic (Zagreb, HR)

14:18 Insight from the Czech Republic
J. Bruthans (Praha 4, CZ)

14:36 Insight from Romania
D. Gaita (Timisoara, RO)

14:54 Insight from Poland
P. Jankowski (Krakow, PL)

15:12 Presentation to be announced
Speaker to be announced

15:30-16:30 MODERATED POSTERS

Moderated Poster Session II
Chairpersons: C. Graf (Cologne, DE); A. Laviano (Rome, IT)

Posters are on display in the exhibition area from 08:30 until 18:00.
During the session (15:30-16:30), each poster presenter will have 5 minutes to briefly summarise their poster to the moderators in front of a dedicated audience. A question-and-answer period of 2 minutes follows each presentation.

Trimetazidine in the management of primary microvascular angina
I. A. Leonova, O. Zaharova, S. Boldueva, D. Ryzhkova, L. Gaykovaya (St-Petersburg and Saint Petersburg, RU)

First real world experience with the novel lipidlowering drug PCSK9 inhibitor evolocumab in patients undergoing lipid apheresis: 1 year follow up

Prediction of subtle left ventricular systolic dysfunction in homozygous and heterozygous familial hypercholesterolemia: genetic analyses and speckle tracking echocardiography study
E.R.H.A.N. Saracoglu, S.A.L.I.H. Kilic (Gaziantep, TR)

Exercise-induced changes in LDL and HDL levels are correlated with the exercise-induced CRP response
C.B. Erevik, O. Kleiven, T. Melberg, M. Bjorkavoll Bergseth, O. Skadberg, B. Auestad, K.M. Aakre, S. Orn (Stavanger and Bergen, NO)

Differences in risk factors for three types of stroke: UK prospective study and metaanalyses

Comparative analyses of trends in hospitalisations for coronary heart disease sub-groups in England and Australia

Observational study on glycemic control of patients with high cardiovascular risk and type 2 diabetes mellitus in Spain (RICARDZ Study)

Impact of a low carbohydrate diet on traditional CVD risk factors in people with features of the metabolic syndrome and type 2 diabetes
J.D. Hung, S.W. Murray, M.A. Shaw, D. Unwin (Liverpool and Southport, GB)

Moderated dose atorvastatin improves arterial endothelial function in patients with angina pectoris and normal coronary angiogram: a pilot study
A. Kabaklic, Z. Fras (Ljubljana, SI)

The effects of exercise training on body composition and exercise capacity following bariatric surgery: a systematic review and meta analysis
N. Pattyn, J. Claes, R. Buys, V. Cornelissen (Leuven, BE)
THURSDAY, 19 APRIL 2018
Afternoon Sessions

16:30 - 18:00  SYMPOSIUM  Linhart Hall

Sleep as a risk factor for cardiovascular disease
Chairpersons: O. Barna (Kyiv, UA); J.C. Barthelemy (Saint-Etienne, FR)
The importance of sleep is more and more recognised in cardiovascular disease prevention. This session will give an overview of the risk associated with lack of sleep, the mechanisms involved, and ways to improve sleep quality and quantity.

16:30  Sleep duration and cardiovascular risk: what's the evidence from observational studies?
F.P. Cappuccio (Leamington Spa, GB)  
16:52  Sleep apnea and cardiovascular risk.
R. Heinzer (Lausanne, CH)  
17:15  Mechanisms of sleep disturbance and cardiovascular risk.
J.P. Empana (Paris, FR)  
17:37  What can we do to improve sleep quantity and sleep quality?
M. Flezar (Golnik, SI)

16:30 - 18:00  MASTER CLASS  Kosovel Hall

Cardiac imaging in Sports Cardiology diagnosis and management
Purpose: Interactive and entertaining forum for learning based around established and novel cardiac imaging techniques. Four cases will be presented by young sports cardiology members. There will be audience participation and discussion amongst an expert panel, directed by the session chair.
Chairpersons: A. Pressler (Muenchen, DE); A. La Gerche (Melbourne, AU)

16:30  Case 1
M. Sanz de la Garza (Barcelona, ES)  
16:50  Case 2
A. Merghani (London, GB)  
17:10  Case 3
V. Maestrini (Roma, IT)  
17:30  Case 4
G. Claessen (Leuven, BE)
16:50  Cardiac imaging in Sports Cardiology diagnosis and management: Concluding Panel discussions
K. Azman Juvan (Ljubljana, SI); M. Sitges (Barcelona, ES); C. Schmied (Zurich, CH)

16:30 - 18:00  SYMPOSIUM  Stih Hall

Safety and efficacy of old and new technologies for the prevention of sudden death in athletes
Chairpersons: H. Heidbuchel (Antwerp, BE); A. Pelliccia (Rome, IT)
The session aims at providing information and data from international electrophysiology centers with an extensive experience in trans venous (TVI) and subcutaneous cardioverter defibrillators (SICD) implantation in physically active individuals.

16:30  Dynamics of fibrillation and defibrillation during physical activity: implications for participation in competitive sports of athletes implanted with an ICD.
M. Link (Dallas, US)  
16:52  CT and coronary calcium to identify risk of SCD due to coronary disease.
M. Borjesson (Vastra Frolunda, SE)  
17:15  SICD: which patient, which disease, which advantage?
M. Sohal (Uxbridge, GB)  
17:37  Exercise prescription in patients with implantable devices.
P. Francia (Rome, IT)
### SYMPOSIUM

**Young investigator award session II - Cardiac Rehabilitation**

Chairpersons: A. Abreu (Lisboa, PT); H. Voller (Rudersdorf, DE)

Judge(s): Y. Goto (Yabu City, JP); N. D. Wong (Irvine, US); C. Vigorito (Naples, IT); M. Ambrosetti (Cunardo, IT)

Six abstracts selected for their outstanding quality. Finalists will be presenting their research in front of an appreciative audience, chairpersons and judges expert in the topic. A winner will be awarded a diploma and a prize of €500.

<table>
<thead>
<tr>
<th>Abstract Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>HeartHab: a study to evaluate the effectiveness of an app-based telerehabilitation program in increasing physical activity levels of patients with coronary artery disease</td>
<td>S. Sankaran, L. Huygen, N. Mommen, K. Coninx, P. Dendale (Diepenbeek and Hasselt, BE)</td>
</tr>
<tr>
<td>Neutrophil to lymphocyte ratio predicts the occurrence of post-operative atrial fibrillation during cardiovascular rehabilitation</td>
<td>L. Fossati, F. Maranta, P. Cerea, L. Cianfanelli, M. Pagnesi, I. Cartella, A. Pistoni, S. Negri, D. Cianflone (Milan, IT)</td>
</tr>
<tr>
<td>Impact of cardiovascular disease diagnosis on all-cause mortality reductions after cardiac rehabilitation</td>
<td>M. Maessen, T. Eijsvogels, E. Bakker, E. Meindersma, N. Van Gorp, N. Pijnenburg, M. Hopman (Nijmegen and Arnhem, NL)</td>
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### SPECIAL EVENT

**Inaugural session**

Chairpersons: D.E. Grobbee (Utrecht, NL); J.P. Schmid (Barmelweid, CH)

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<thead>
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<th>Time</th>
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<th>Organizer(s)</th>
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<tr>
<td>18:15</td>
<td>Introduction.</td>
<td>D.E. Grobbee (Utrecht, NL)</td>
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<td>18:16</td>
<td>Welcome from the ESC Leadership</td>
<td>B. Casadei (Oxford, GB)</td>
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<tr>
<td>18:28</td>
<td>Welcome to Ljubljana</td>
<td>Z. Fras (Ljubljana, SI)</td>
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<tr>
<td>18:39</td>
<td>Scientific programme: what you should not miss</td>
<td>J.P. Schmid (Barmelweid, CH)</td>
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<td>18:50</td>
<td>Opening Address: EAPC President</td>
<td>D.E. Grobbee (Utrecht, NL)</td>
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### THURSDAY, 19 APRIL 2018

**Poster Sessions**

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<th>08:30 - 18:00</th>
<th>POSTER SESSION</th>
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**IMAGING**

**Imaging - Poster discussant:**

- **P112** G. Nasr (Cairo, EG)
  Measuring cardiac output and leg blood flow with phase-contrast MRI during supine cycling exercise.

- **P113** T. Schoots, B.L.J. Wassenaar, R.J. Renken, J.A.L. Jeneson, H.M.C. Kemps (Veldhoven and Groningen, NL)
  Relationship between longitudinal strain of left ventricle and hypertension and blood pressure control in a general population.

  Head-to-head comparison of gated blood pool scan and two-dimensional echocardiography for assessing left ventricular ejection fraction in patients undergoing cardiac rehabilitation.

- **P115** M. Demeulemaere, S. De La Porte, B. Ectors, N. Possemiers, T. Stoop, K. Wuyts, P. Beckers, B. Shivalkar (Antwerp, BE)
  The heart contractile function and left ventricular ejection fraction in patients with ST segment elevation myocardial infarction.

- **P116** V. Galimskaya, S. Kupriyanova, I. Dolgarev, A. Golubeva, V. Oleinikov (Penza, RU)
  Left ventricular deformation parameters in STEMI patients with different revascularization outcomes.

**ARRHYTHMIAS AND DEVICE THERAPY**

**Arrhythmias and device therapy - Poster discussant:**

- **P118** C. Chrysohoou (Athens, GR)
  Anticoagulant therapy in patients with atrial fibrillation and diabetic or non-diabetic chronic kidney disease.

- **P119** I. Daaboul, M. Gabitova, A. Sokolova, D. Napalkov, V. Fomin (Moscow, RU)

- **P120** S. Kildal, B.K. Jacobsen, M.L. Lochen (Tromso, NO)
  The quality of life in patients with paroxysmal atrial fibrillation after catheter ablation.

- **P121** N. Pogosova, A.I. Teleagina, Y.M. Yufereva, K.V. Davtyan (Moscow, RU)
  De novo atrial arrhythmia after isolated surgical aortic valve replacement.

- **P122** Y.M. Hwang, J. Kim (Suwon and Seoul, KR)
  Design of the FRAIL AF study: safety of switching anticoagulant management (from VKA to NOAC) in frail elderly patients with atrial fibrillation: a randomised controlled trial.

- **P123** L.P.T. Joosten, F.H. Rutten, A.W. Hoes, G.J. Geersing (Utrecht, NL)
  Failure to anticoagulate patients with Atrial Fibrillation despite a high CHA2DS2Vasc score.

- **P124** Y. Bashir, A. M. Salmasi (London, GB)
  Prevention of atrial fibrillation using a new animal model.

- **P125** Y. Ishikawa (Yokohama, JP)

**HEART FAILURE**

**Heart failure - Poster discussant:**

- **P126** P.M. Meyer (Geneva, CH)
  Comparative risk of heart failure associated with second-line antidiabetes treatments: analysis of real-world Korean data.

THURSDAY, 19 APRIL 2018

Poster Sessions

Prophylactic use of carvedilol to prevent ventricular dysfunction in patients with cancer treated with doxorubicin
A. Elshiekh, A. Abuosa, A. Kinsara (Jeddah, SA)  
P128

Influence of pulmonary rehabilitation on clinical characteristics in patients with chronic heart failure and chronic obstructive pulmonary disease
G. Smyrnova, T. Babkina (Kiev, UA)  
P129

Aldosterone plasma level as risk factor of cardiovascular events in longterm chronic heart failure with preserved ejection fraction
A. Shevelyok, N. Vatutin, A. Zagoruiko (Donetsk, UA)  
P130

The predictors of mid-term heart failure-related mortality rate: a data-based analysis
P131

Education, psychological intervention and prevention of frailty syndrome as factors to obtain higher level of self-care in heart failure
A. Mlynarska, R. Mlynarski, K. S. Golba (Katowice, PL)  
P32

The non-invasive evaluation of myocardial oxygen supply/demand ratio in patients with heart failure
P133

Acute effects of low level laser therapy (LLLT) on muscle fatigue and tissue oxygenation in individuals with heart failure
M. Lambrecht Da Silva, A. Sonza, P. Dal Lago, L.F. Deresz, F.B.C. Delacoste (Porto Alegre, Florianopolis and Juiz de Fora, BR)  
P134

High dietary sodium intake is associated with shorter event-free survival in patients with heart failure and comorbid diabetes
Z. Saleh, T. Lennie, D. Moser (Amman, JO; Lexington, US)  
P135

CORONARY ARTERY DISEASE, ACUTE CORONARY SYNDROMES, ACUTE CARDIAC CARE

Coronary artery disease, acute coronary syndromes, acute cardiac care - Poster discussant:
B. ZARIF (Cairo, EG)  
P136

Change in WIQ score in patients with a recent myocardial infarction
B. Jonelid, B. Kragsterman, C. Christersson (Uppsala, SE)  
P137

Blood flow-restricted resistance training in patients with coronary artery disease: a pilot randomised trial
T. Kambic, M. Novakovic, K. Tomazin, V. Strojnik, B. Jug (Ljubljana, SI)  
P138

Relationship between components of adherence and core cognitive domains in patients with coronary artery disease
O. Trubnikova, T. Kupriyanova, O. Maleva, O. Barbarash (Kemerovo, RU)  
P139

Growth Differentiation Factor-15 (GDF15) protein is systematically elevated prior to a recurrent acute coronary syndrome
P140

Early discontinuation of P2Y12 antagonist and adverse clinical outcomes post percutaneous coronary intervention
E.D. Harris, A. Lacey, A. Akbari, M.B. Gravenor, J.P.J. Halcox (Swansea, GB)  
P141

Efficiency of concomitant use of policosanol and rosuvastatin in patients with stable coronary artery disease and moderate hepatic dysfunction
O. Vosukh, T. M. Solomenchuk (Lviv, UA)  
P142

Efficiency of concomitant use of policosanol and rosuvastatin in patients with stable coronary artery disease and moderate hepatic dysfunction
O. Vosukh, T. M. Solomenchuk (Lviv, UA)  
P143

Coronary angiography encourage healthy lifestyle changes
N. Slotvik, H. Schirmer, T. Trovik, A. Iqbal, T.A. Hansen (Tromso and Oslo, NO)  
P144

Opportunities of optical coherent tomography in the determination of the causes of non-obstructive coronary artery myocardial infarction
I. A. Leonova, V. Feoktistova, A. Fanta, D. Korostilev, S. Boldueva (StPetersburg, RU)  
P145
Endothelial function in patients with different degree of coronary arteries atherosclerosis
N. Burko, A. Khromova, L. Salyamova, V. Oleinikov (Penza, RU)

The impact of therapeutic compliance on the period of development of stent thrombosis after percutaneous coronary intervention
J. A. Mansurova, L.K. Karazhanova (Semey, KZ)

Long-term outcomes of rehabilitation in patients with acute coronary syndrome by the data of the total ACS register in the Krasnodar territory
S.V. Kruchinova, E.D. Kosmacheva, S. Raff (Krasnodar, RU)

Cardiorehabilitation and its effects on the quality of life in patients with acute coronary syndrome by the data of the total register of ACS in the Krasnodar territory
S.V. Kruchinova, S.V. Kruchinova, E.D. Kosmacheva, E.D. Kosmacheva, E.D. Kosmacheva, S. Raff (Krasnodar, RU)

Treatment adherence and its associated factors in patients with stable coronary artery disease (according to the outpatient register)
Y.V. Lukina, N.A. Dmitrieva, V.P. Voronina, A.V. Zagrebelniy, O.V. Lerman, S.N. Tolpygina, N.P. Kutishenko, S.Y. Martsevich (Moscow, RU)

Aortic disease, peripheral vascular disease, stroke

Aortic disease, peripheral vascular disease, stroke - Poster discussant:
V. Vassiliou (Cambridge, GB)

Body weight and cachexia after stroke

Peripheral artery disease in octa and nonagenarians: risk factors, comorbidities and complications of invasive procedures
B. Krevel, M. Kozak, B. Jug (Ljubljana, SI)

Remodeling of the heart as a predictor of repeated violations of the cerebral circulation
V.I. Ruzov, D.U. Skvortsov, R.K.H. Gimaev, A. Vorobev, M. Mulenga (Ulyanovsk, RU)

Cardiovascular profile of women with peripheral artery disease in a Romanian hospital

Hypertension

Hypertension - Poster discussant:
F.P. Cappuccio (Leamington Spa, GB)

Longitudinal and recent trends in hypertension prevalence, awareness and blood pressure control in a definite russian population
S. K. Malyutina, D. Denisova, M. Bobak, N. Bobrova, S. Cook, Y.U. Nikitin, M. Voevoda (Novosibirsk, RU; London, GB)

Influence of l-arginine aspartate on vascular markers in hypertensive patients with metabolic syndrome
J.K. Uzokov, B.A. Alyavi (Tashkent, UZ)

Dairy product intake, kidney function, and blood pressure: the INTERMAP study

Patterns of blood pressure variability over 5 consecutive office measurements in cardiac patients, effect of age, gender, diabetes and hypertension
H.M. Warda, A. Habib, A. El Shorbagy (Alexandria, EG)

The rate of oxidative damage of the 8-oxoG marker DNA in patients with hypertension is influenced by the epigenetic factor electromagnetic radiation
V.S. Potaskalova, N.V. Khaitovych, M.N. Seliuk, A.P. Burlaka, N.N. Kozachok, O.V. Seliuk (Kiev, UA)
Effects of different aerobic exercise programs with nutritional intervention in primary hypertensive, overweight/obese and sedentary adults: EXERDIETHTA study


Correlation of polymorphism rs699 (g (-6) a) in the promoter of the gene coding angiotensinogen, early prehypertension, and common carotid artery intima-media thickness

T. Chakalova Yancheva, P. Tonchev, Y. Mladenova, K. Gospodinov, S. Tisheva (Pleven, BG)

Systolic blood pressure variability associations in hypertensive patients with type 2 diabetes mellitus

N. Dovganych, S. Kozhukhov, O. Yarynka, O. Bazya, O. Starshova (Kiev, UA)

Dynamics of ABPM parameters in patients with hypertension and morbid obesity after bariatric surgery

E. Kolesnik, T. Kolesnyk, R. Duka, H. Kosova, A. Nadiuk (Dnipropetrovsk, UA)

**RISK FACTORS AND PREVENTION - EPIDEMIOLOGY**

Risk Factors and Prevention - Epidemiology - Poster discussant: I. Sluijs (Utrecht, NL)

Determinants of risk factor management for secondary prevention of coronary heart disease across three regions: an analysis from SURF data

M. Zhao, I. Graham, M.T. Cooney, D.E. Grobbee, I. Vaartjes, K. Klipstein Grobusch (Utrecht, NL; Dublin, IE)

Preventable premature CVD mortality and mortality trends in eight Northern Dimension partnership countries

P. Jousilahti, I. Vohlonen, M. Vienonen (Helsinki and Kuopio, FI)

Sex differences in the role of mediterranean diet in secondary prevention of acute coronary syndrome, according to the individual cardiovascular disease history; the Greecs prospective study


The risk of recurrent acute coronary event between three regions in France. Results from the French MONICA population-based registry: 9 years of followup of 18,000 patients


Effect of family history and lifestyle change on incidence of diabetes

M. Usbrita (Kuopio, FI)

Association of lung function with body mass and physical fitness in primary school children

S. Koechli, K. Endes, T. Bartenstein, L. Zahnner, H. Hansen (Basel, CH)

The growing burden of cardiovascular disease in the United Arab Emirates and the impact of reducing modifiable risk factors


Polyphenols and the dietary antioxidant activity, and their relationship with hypertension a cross-sectional study of the adult population in Poland

A. Waskiewicz, M. Zuzko, D. Szczesniewska, A. Tykarski, M. Kwasniewska, W. Drygas, A.M. Witkowska (Warsaw, Bialystok, Poznan and Lodz, PL)

Relationship between alcohol addiction and the incidence of cardiovascular disease in 9 year observation of Polish HAPIEE cohort.

M. Kozela, A. Dorynska, A. Pajak (Krakow, PL)

Physical activity related risk factors for cardiovascular diseases among Slovenian elementary school students

B. Bobik, M. Kosi, G. Starc, J.K. Djomba (Ljubljana, SI)

Sex-specific effect of diabetes mellitus in the secondary prevention of acute coronary syndrome; the Greecs prospective study

The association of high-sensitive C-reactive protein with prehypertension in population-based sample
A. Erina, A. Orlov, M. Boyarina, A. Alieva, E. Moguchaia, O. Rotar, E. Baranova, A. Konradi, E. Shlyakhto (Saint Petersburg, RU)

Verbal memory and verbal fluency as predictors of cardiovascular disease incidence in Polish cohort of the HAPIEE Study
A. Dorynska, M. Kozea, A. Pajak (Krakow, PL)

PREVENTIVE CARDIOLOGY
Preventive cardiology - Poster discussant:
T. Abo el azme (Banha, EG)

Exclusive olive oil consumption and 10 year (2002-2012) cardiovascular disease incidence: the ATTICA Study
G.M. Kouli, D. B. Panagiotakos, I. Kyrou, E. Magrillis, E. Georgousopoulou, C. Chrysohoou, C. Tsios, D. Tousoulis, C. Pitsavos (Athens, GR; Birmingham, GB; Canberra, AU)

Diet therapy and the control of hypertension among Korean people with diagnosed hypertension
J.S. Shim, H.C. Kim (Seoul, KR)

Encouraging effects of a short-term, adapted Nordic diet intervention on cardiovascular risk-reduction in younger and older adults
M. Klonizakis, S. Mcneill, H. Kononen, D. Rogerson (Sheffield, GB)

Trends in adherence to the Mediterranean diet over ten-year period in a West Romanian population
C. Vlad, M. Valeanu (Cluj Napoca, RO)

Impact of different exercise-based cardiac rehabilitation programs on exercise adherence
S. Pomeshkina, V. Bezzubova, O. Barbarash (Kemerovo, RU)

Exercise trainings and erectile dysfunction in patients after coronary artery bypass grafting
S. Pomeshkina, E. Pomeshkin, O. Barbarash (Kemerovo, RU)

Long-term cardiac benefits of exercise in a model of organophosphate toxicity (DFP)
J.F. Machi, R. Schmidt, P.F. Waziry, C.A. Barboza, M. Morris (Fort Lauderdale, US; Sao Paulo, BR)

The socio-demographic profile of potential higher risk of cardiometabolic diseases related to low physical activity assessed by IPAQ in PURE Poland study

Time of sitting as an independent risk factor of CHD, type 2 diabetes, hypertension in PURE Poland study

Exercise training combined with inhibition of acetylcholinesterase by bromide pyridostigmine prior myocardial infarction in rats

Changes in the physical activity level among patients with acute coronary syndrome
Z. Babic, M. Nedic, M. Misigoj-Durakovic (Zagreb, HR)

Impact of sleep disorders on cardiovascular risk profile in hypertensive male adolescents with different circadian blood pressure rhythms
L. Rychkova, O. Berdina, L. Kolesnikova, I. Madaeva (Irkutsk, RU)

RISK FACTORS AND PREVENTION - CARDIOVASCULAR RISK ASSESSMENT
Risk Factors and Prevention - Cardiovascular Risk Assessment - Poster discussant:
M. O’Flaherty (Liverpool, GB)

The stratification of cardiovascular risk in rheumatoid arthritis
J. Starodubova, I.V. Osipova (Barnaul, RU)

Contamination rate in the risk or benefit in screening for cardiovascular disease (ROBINSCA)-trial
S. J. A. M. Denissen, C. M. Van Der Aalst, M. A. Van Aerde, M. Vonder, M. Oudkerk, H. J. De Koning (Rotterdam and Groningen, NL)
Smoking cessation program: marked risk reduction of coronary heart disease in pregraduate individuals.
(BANGALORE, Jaipur and Bangalore, IN)

Exercise induced ST depression in a population with low risk for ischemic heart disease prevalence and characteristics
A. Carlen, M. Gustafsson, M. Astrom Aneq, E. Nylander (Linkoping, SE)

Orthostatic test in prognosis of arterial hypertension in young adults
O. Sklyanna, M. Vatutin, A. Zagoruyko (Donetsk, UA)

Improvement of arterial wall characteristics and possible improvement of cardiovascular prevention with very low dose fluvastatin and valsartan
M. Turk, M. Janic, M. Lunder, M. Sabovic (Ljubljana, SI)

Muscle quality is lower in frail patients with severe aortic stenosis and is associated to muscle strength, nutritional status and cardiac operative risk

Coimbra united by the heart (CUH) community-based project for the prevention of cardiovascular diseases

Evaluation of the effects of thiazide diuretic therapy on glucose metabolism in hypertensive patients
G. Anastasia, G. Pinto, F. Guzzo, A. Autieri, C. Silipigni, B. Demarchi, G. Fragasso, A. Margonato (Milan, IT)

Cardiovascular risk among armenias: nationwide population based ncd steps survey
D. Andreasyan (Yerevan, AM)

Cardiologists who participate in national congress: how do they take care about own health?
O.P. Rotar, M.A. Boiarinova, A.V. Orlov, V.N. Solntsev, A.O. Konradi, E.V. Shlyakhto (Saint Petersburg, RU)

FFR validity over time - 3 years follow up
A. Abdullah, M. Ali, T. Kiernan (Limerick, IE)

LIPIDS

Lipids - Poster discussant:
D. Gaita (Timisoara, RO)

Improvement of lipid profile post cardiac rehabilitation according to the patient’s level of risk in a tertiary hospital
A. Chauca Tapia, R. Colman Llamozas, T. Bretones Del Pino, L. Gutierrez Alonso, R. Vazquez Garcia (Cadiz, ES)

Efficacy of the PCSK9 inhibitors evolocumab/alirozumab in the reduction of LDL and Lp (a) in patients with familial hypercholesterolemia/manifest atherosclerosis in a real world setting
(Bad Oeynhausen, DE)

Anti-PCSK9 in everyday clinical practice

Evaluation of LDL cholesterol level in patients with coronary artery disease after cardiac rehabilitation

Blood lipid profile alteration in patients with coronary artery disease influenced by laser re-irradiation
A.P. Vasiliev, N.N. Streletsova (Tyumen, RU)

Safety aspects and side effects of the novel lipid-lowering PCSK9 inhibitors evolocumab/alirozumab in atherosclerotic patients with familial hypercholesterolemia under lipid apheresis
(Bad Oeynhausen, DE)

Lipoprotein a in primary prevention
(Bad Oeynhausen, DE)
Changes in LDL cholesterol one month after acute coronary syndrome: prognostic implications  

Efficacy and safety of PCSK9 inhibitors in lipid control in a follow-up at 6 months  
A. Chauca Tapia, R. Colman Llamozas, L. Gutierrez Alonso, R. Vazquez Garcia (Cadiz, ES)

Gender-related differences in the lipid profile in patients admitted to a cardiac rehabilitation program  
A. Chauca Tapia, R. Colman Llamozas, T. Bretones Del Pino, L. Gutierrez Alonso, R. Vazquez Garcia (Cadiz, ES)

Lipid disorders among the faculty of Saint-Petersburg Universities  

Diabetes and the Heart Poster discussant:  
L. Ryden (Stockholm, SE)

Assessment of presence and predictors of subclinical atherosclerosis in asymptomatic patients with diabetes type 2  
I. Peovska Mitevska, M.B. Bosevski, E.S. Srbinovska (Skopje, MK)

Ultrastructural changes in monocytes in patients with type 2 diabetes and unstable angina pectoris  
O.Y. Buchko (Liviv, UA)

Cardiovascular autonomic neuropathy in patients with type 1 diabetes mellitus: consequences and preventive measurements.  

Combined effects of diabetes and low household income on mortality: A 12-year follow-up study of 505,677 Korean adults  

Do we translate new scientific evidence to our daily clinical practice? New approaches on antidiabetic therapeutic  

Respiratory function of lungs at ischemic heart disease patients concomitant with type 2 diabetes mellitus  
S. Murtazaev, K.H. Khalkilov (Tashkent, UZ)

Five-year changes in antidiabetic drug treatment in a Swiss population-based sample. The CoLaus study  
V. Subramaniam, G. Waebler, P. MarquesVidal (Lausanne, CH)

Benefits of systematic use of single photon emission computed tomography (SPECT) in patients with stable and revascularized coronary artery disease  

Value of high-sensitivity C-reactive protein values in Ulcerative Colitis patients with and without cardiovascular disease.  
Hospitalised coronary heart disease patients are largely unaware of risk factors but express interest in healthier lifestyles


Utility of availability of blood pressure monitors in traditional Greek coffee-houses

A. Ioannidis, M. Paraskeidou, A. Pechievanis (Thessaloniki, GR)

Awareness about the health and risk factors and adherence to cardiovascular prevention over 28-year period in the open male population aged 25-44 years in Russia / Siberia

E. Gromova, D. Panov, I. Gagulin, A. Gafarova, E. Krymov, V. Gafarov (Novosibirsk, RU)

Cardiovascular morbidity risk assessment in pre-eclamptic Indian women, after 3 year follow up study


 Cardiovascular Rehabilitation - Poster discussant:

T. Schmidt (Bad Rothenfelde, DE)

Increase in 6-minute walk distance during hospitalization predicts the readmission due to decompensated heart failure in heart failure patients with preserved ejection fraction

M. Tabata, M. Kato, N. Hamazaki, S. Tanaka, T. Masuda (Toyohashi, Shizuoka and Sagamihara, JP)

Comparison of 3-week high-intensity interval training and moderate continuous training for cardiometabolic health and autonomic nervous system in chronic heart failure: a randomised controlled study


Differences in long term symptoms of anxiety and depression between cardiac rehabilitation participants and non participants. A propensity matched study

S. Olsen, H. Schirmer, T. Wilsgaard, K.H. Bonaa, T.A. Hanssen (Harstad, Oslo, Tromso and Trondheim, NO)

Intermittent hypoxia-hyperoxia training is as effective as a standard rehabilitation programme in improving cardiorespiratory fitness in comorbid cardiac outpatients: a randomised controlled trial

O.S. Glazachev, E. Dudnik, E. Zagaynaya, D. Susta (Moscow, RU; Dublin, IE)

Influence of exercise training on markers of inflammation in patients with coronary artery disease

M. Dejanin Ilic, S. Ilic, G. Kocic, D. Simonovic, B. Djordjevic, D. Petrovic, S. Stojanovic, B. Ilic, S. Saric (Niska Banja and Nis, RS)

Depression, socio-economic factors and ethnicity as predictors of cardiorespiratory fitness before and after cardiac rehabilitation

N. Mikkelsen, C. Dall, A. Holdgaard, M. Frederiksen, H. Rasmusen, E. Prescott (Copenhagen, DK)

Gait speed test: outcome measure and instrument for functional stratification of training profiles in cardiac rehabilitation

G.M. Maglio, M.L. Zuccotti (San Donato Milanese, IT)

Sex differences in aerobic interval training in patients with cardiovascular disease

D. Chirico, M.L. Keast, T. Terada, J.L. Reed (Ottawa, CA)

One size does not fit all: differential effects of cardiac rehabilitation on quality of life in patients with obesity compared to normal weight

T. Terada, D. Chirico, H. Tulloch, A. Pipe, J. Reed (Ottawa, CA)

Respiratory training as adjuvant to exercise training resulted faster recovery of residual pulmonary hypertension after mitral valve surgeries

B. Radi, B. Suryaattmaja, A.S. Koencoro, A.M. Soesanto, A. Santoso (Jakarta, ID)

Dietary intake is improved and maintained after cardiac rehabilitation despite differences in educational levels: a danish observational study


Development of a prognostic algorithm to predict functional recovery and complications following cardiac surgery

P. Cerea, F. Maranta, L. Fossati, L. Cianfanelli, M. Pagnesi, I. Cartella, A. Pistoni, S. Negri, D. Cianflone (Milan, IT)
Lifelong exercise training and all cause mortality: Data from the patients' self support association of the Istra region in Slovenia

T. Ravnikar, B. Jug, S. Korosec, D. Marusic (Izola and Ljubljana, SI)

The role of ambulatory cardiac rehabilitation in improvement of psychocardiac status, quality of life and long-term prognosis after acute coronary syndrome

G. Krstacic, P. Dendale, I. Frederix, A. Krstacic, M. Mornar Jelavic (Zagreb, HR; Hasselt, BE)

Effect of continuous training vs Interval of high intensity on functional capacity and recovery of heart rate: A randomized clinical trial in coronary heart-disease patient


SPORTS CARDIOLOGY

Sports Cardiology Poster discussant:
G. E. Pieles (Bristol, GB)

Prevalence and progression of the juvenile pattern in the electrocardiogram of adolescents


Pre-participation screening of non-elite athletes: performance of three sets of electrocardiographic criteria

G. Halasz, A. Nardecchia, M. Badini, V. Biasini, L. Biasco, F. Scopigni, S. Nardecchia, M. Penco (Lugano, CH; Rome, Scoppito, Naples and L’Aquila, IT)

3D global longitudinal strain in elite athletes: what is the new normal?


Prevalence, determinants and underlying substrate of ventricular arrhythmias in young competitive athletes


High-risk individuals engaged in leisure-time sport activity have increased baseline and exercise-induced CRP levels: NEEDED 2014

O. Kleiven, M. Bjorkavoll-Bergseth, T. Melberg, O. Skadberg, K.M. Aakre, S. Orn (Stavanger and Bergen, NO)

Prevalence of major and minor arvc criteria in healthy paediatric arab and black athletes

G. Mclean, M.G. Wilson, G. Pieles, V. Watt, C. Adamuz, A. Shaw, N.R. Riding, K.P. George, D. Oxborough (Doha, QA; Bristol and Liverpool, GB)

Analysis of the causes of sports ineligibility from sport medicine unit in Treviso, Italy

T. Vesselia, L. Merlo, C. Pegoraro, F. Giorgiano, M. Viel, P. Formentini, M. Trevisanato, P. Sarto (Treviso, IT)

Masters Athlete Screening Study (MASS): Insights into psychological impact of preparticipation screening


The prevalence, ECG-lead distribution and prognostic significance of early repolarization pattern in non-elite athletes.

G. Halasz, V. Biasini, M. Badini, L. Biasco, F. Scopigni, S. Nardecchia, M. Penco (Lugano, CH; Scoppito, Naples and L’Aquila, IT)

CARDIOVASCULAR DISEASE IN SPECIAL POPULATIONS

Cardiovascular disease in special populations Poster discussant:
J. Niebauer (Salzburg, AT)

Gender differences in clinical manifestations and comorbidities in patients with instent restenosis who underwent primary PCI in settings of STEMI: 12 months follow up

N. Sharashidze, G. Saatashvili, M. Kantaria, N. Mamamtavrishvili (Tbilisi, GE)

Statins in patients with chronic viral B hepatitis treated with nucleoside analogues (oral antiviral drugs)

Results of a 5-year study in Constanta County, Romania

Prospective relationship between sleep duration and incidence of obesity in infants, children and adolescents: a systematic review and meta-analysis

M. A. Miller, M. Kruisbrink, J. Wallace, C. Ji, F.P. Cappuccio (Coventry, GB; Maastricht, NL)

Magnesium orotate for the treatment of pre-existing hypertension and non-differentiable connective tissue dysplasia in pregnant women


Indapamide sustained-release is safe and effective in the treatment of post partial hypertension: results from an observational, case-control 12-month study

I.R. Gaisin, A.S. Iskchakova, L.V. Shilina, N.P. Sava (Izhevsk, RU)

Arterial stiffness and cardiovascular risk factors in men aged 41-43 years

O. Isaykina, A. Alexandrov (Moscow, RU)

CARDIOVASCULAR NURSING

Cardiovascular nursing - Poster discussant:

E. Lambrinou (Limassol, CY)

Improving feedback from national cardiac rehabilitation databases - a study of nurses perceptions

C. Helmark, C.L. Egholm, M.B. Kousgaard, A.D. Zwisler, P. Doherty (Roskilde, Holbaek, Copenhagen and Nyborg, DK; York, GB)

Do we fulfill the patients expectations of a coronary procedure?

A. M. Odell, L.G. Grip (Gothenburg, SE)

Vascular access complications after percutaneous invasive procedure

S. Oliveira, A.M. Teodoro, F. Correia, F. Homem, H. Oliveira, N. Alves (Coimbra, PT)

BASIC SCIENCE

Basic science - Poster discussant:

H. M. C. Kemps (Den Bosch, NL)

Effects of familiarisation on reliability of cardio-respiratory responses to external counter-pulsation therapy (ECP)

C. K.S. Lim, J. P. Buckley (Singapore, SG; Chester, GB)

Exercise prevents age heart rate variability decline in the elderly: a systematic review and meta-analysis


Acute cardio respiratory responses to external counterpulsation therapy (ECP)

C. K.S. Lim, J. P. Buckley (Singapore, SG; Chester, GB)

Features of diet and lipid exchange in Buryat adolescents with overweight

L. Rychkova, T. Bairova, V. Balzhieva (Irkutsk, RU)

The association of the mutations in gene TTN with sudden cardiac death

A. Ivanova, M. Maksimov, S. Malyutina, K. Kolesnik, A. Aleshkina, S. Savchenko, V. Novoselov, M. Voevoda (Novosibirsk, RU)

Association of gene polymorphism and blood pressure level in adolescents with essential hypertension and hemostatic disorders

L. Rychkova, S. Bolshakova, M. Gomel’ya, T. Bairova, O. Bugun, O. Berdina (Irkutsk, RU)

The role of bradykinin receptor type 2 for spontaneous extravasation in mice skin: Implications for nonallergic angioedema

T. Suvorava, M. Bisha, V.T. Dao, E. GholamrezaFahimi, M. Vogt, M. Van Zandvoort, M. Bas, F. Khosravani, G. Koja (Duesseldorf, Aachen and Munich, DE)

LEP rs2167270 and plasma leptin level in adolescents with overweight and obesity

L. Rychkova, T. Bairova, K. Ievleva, V. Balzhieva, M. Rashidova, L. Kolesnikova (Irkutsk, RU)

Effect of omega-3 fatty acids on the extracellular matrix and intracellular communication in the heart of hypertensive rats with altered thyroid status

M. Sykora, B. Szeíflová Bacova, T. Soukup, M. Barancik, N. Tribulova (Bratislava, SK; Prague, CZ)
**FRIDAY, 20 APRIL 2018**

**Morning Sessions**

### SYMPOSIUM

#### Linhart Hall

**Diet and CVD: what's new?**

Chairpersons: P. Marques-Vidal (Lausanne, CH); G. S. Tell (Bergen, NO)

*By attending this session, participants will receive up to date knowledge on the importance of salt, sugar and fatty acids on cardiovascular diseases. These are topics that remain controversial.*

- **08:30** Salt: update on impact of salt on CVD burden and global initiatives to lower salt intake.
  - F.P. Cappuccio (Leamington Spa, GB)

- **08:52** Sugar: recent developments and ways to reduce sugar intake to prevent obesity and CVD.
  - B. Jug (Ljubljana, SI)

- **09:15** Fatty acids: new insights in the ongoing story of saturated fatty acids.
  - I. Sluijs (Utrecht, NL)

- **09:37** Improving dietary habits: what works?
  - M. O’Flaherty (Liverpool, GB)

#### Kosovel Hall

**Exercise and blood pressure in cardiovascular prevention: what can be achieved?**

Chairpersons: J. Brguljan (Ljubljana, SI); K. Savonen (Kuopio, FI)

*Exercise therapy in hypertension is an important treatment modality in cardiovascular prevention, both for primary and secondary prevention. The ESH/ESC Guidelines for the management of arterial hypertension include regular physical exercise as a treatment strategy. However, essential questions remain on how much exercise is needed to reduce BP in hypertension, how and to what extent exercise affects mortality in hypertensive patients and how exercise can be individually prescribed to optimize therapy strategies in manifest hypertension and in the primary prevention of hypertension. This session aims at giving an update on these issues based on the current literature and offers discussions on practical recommendations.*

- **08:30** Blood pressure behavior during exercise: physiologic control and pathophysiologic mechanisms
  - J. Niebauer (Salzburg, AT)

- **08:52** Exercise, blood pressure and cardiovascular health: role of vascular biomarkers
  - H. Hanssen (Basel, CH)

- **09:15** Target blood pressure and clinical outcome: what can be achieved by exercise?
  - P. Leeson (Oxford, GB)

- **09:37** Recommendations for exercise prescription in hypertension: an update
  - M. Guazzi (San Donato Milanese, IT)

#### Stih Hall

**Cardiac Rehabilitation: From hospital to community**

Joint Session with the Japanese Association of Cardiac Rehabilitation

Chairpersons: H. Itoh (Tokyo, JP); J. Perk (Oskarshamn, SE)

*In the yearly joint session the cardiac rehabilitation picture in Europe and Japan will be compared. Recent data about the feasibility and effectiveness of training modalities in different settings residential and community-based will be presented.*

- **08:30** Cardiac rehabilitation in Japan: Methods and Results
  - S. Makita (Hidaka, JP)

- **08:52** Cardiac Rehabilitation in Europe: Methods and Results
  - A. Abreu (Lisboa, PT)

- **09:15** Fasttrack residential cardiac rehabilitation in Europe
  - M. Ambrosetti (Cunardo, IT)

- **09:37** Community based cardiac rehabilitation in Japan
  - S. Sato (Tokorozawa, JP)
FRIDAY, 20 APRIL 2018
Morning Sessions

08:30 - 10:00  YOUNG INVESTIGATOR AWARD ABSTRACTS

Young investigator award session III - Exercise Basic & Translational Research (EBTR)
Chairpersons: J. A. Laukkanen (Jyväskyla, FI); T. Karlsen (Bodo, NO)
Judge(s): M. Wilhelm (Bern, CH); M. Simonenko (Saint-Petersburg, RU); E. Van Craenenbroeck (Edegem, BE); T. Moholdt (Trondheim, NO)
Six abstracts selected for their outstanding quality. Finalists will be presenting their research in front of an appreciative audience, chairpersons and judges expert in the topic. A winner will be awarded a diploma and a prize of €500.

What is best for women? The effects of aerobic interval training and moderate-intensity continuous exercise on physical and mental health in women with heart disease
J.L. Reed, M.L. Keast, R.A. Beanlands, A.Z. Blais, A.L. Pipe, H.E. Tulloch (Ottawa, CA)

The relation between insulin resistance on longitudinal changes in left ventricular structure and function in a general population

Moderate walking speed predicts 3-years hospitalisation in hypertensive patients with cardiovascular disease
C. Merlo, N. Sorino, J. Myers, B. Sassone, G. Pasanisi, S. Mandini, F. Guerzoni, N. Napoli, F. Conconi, G. Mazzoni, G. Chiaranda, G. Grazzi (Ferrara, Cento (Ferrara), Lagosanto (Ferrara) and Bologna, IT; Palo Alto, US)

Increased heart rate does not explain the cardiac Troponin increase following strenous exercise - the NEEDED 2014 advanced heart rate monitor substudy

Predictors of response to exercise training in patients with coronary artery disease: a sub-analysis of the SAINTEX CAD study

Effects of cyborg type robot suit HAL on cardiopulmonary burden during exercise in normal subjects

10:00  - 11:00  SPECIAL EVENT Stih Hall

EAPC General Assembly

10:00  President’s report A new structure to shape our future
D.E. Grobbee (Utrecht, NL)
10:20  EAPC Finances: report from the Treasurer
M. Guazzi (San Donato Milanese, IT)
10:25  Become a Young EAPC Ambassador
F. D’Ascenzi (Siena, IT)
10:30  Future development on Membership
P. Dendale (Hasselt, BE)
10:35  EJPC: 5 key reasons to submit your publications
M. F. Piepoli (Piacenza, IT)
10:40  Networking break: meet & greet new members and EAPC leadership in a relaxed and friendly atmosphere
FRIDAY, 20 APRIL 2018
Morning Sessions

10:00 - 11:00
Moderated Poster Session III
Chairpersons: P. Jankowski (Krakow, PL); A. J. Kinsara (Jeddah, SA)
Posters are on display in the exhibition area from 08:30 until 18:00.
During the session (10:00 - 11:00), each poster presenter will have 5 minutes to briefly summarise their poster to the moderators in front of a dedicated audience. A question-and-answer period of 2 minutes follows each presentation.

Estimation risk for developing recurrent stroke in young adults with ischemic strokes using the Essen Stroke Risk Score: do women and men have different risks?
J. Suwanno, J.U.K. Suwanno, K. Angkun, K. Rajborirug (Thasala, Nakhon Si Thammarat and Hat Yai, Songkhla, TH)

Serum ceramides predict residual cardiovascular death risk in statin treated patients with stable coronary artery disease
R. Laaksonen, M. Hilvo, R. Hurme, O. Nygard (Espoo, FI; Bergen, NO)

Beyond medicines. Evidence of particular foodstuff for cardiovascular prevention and management
Chairpersons: I. M. Graham (Wicklow, IE); M. Verschuren (Bilthoven, NL)
Know the pros and cons of nutraceuticals in the prevention of cardiovascular risk factors

11:00 - 12:30
Symposium
Linhart Hall

Beyond medicines. Evidence of particular foodstuff for cardiovascular prevention and management
Chairpersons: I. M. Graham (Wicklow, IE); M. Verschuren (Bilthoven, NL)
Know the pros and cons of nutraceuticals in the prevention of cardiovascular risk factors

11:00
Red rice yeast
To be announced

11:22
Cheese and dairy products
D. S. Thelle (Goteborg, SE)

11:45
Soy
M. Ruscica (Milan, IT)

12:07
Combined nutraceuticals
M. Banach (Lodz, PL)
## FRIDAY, 20 APRIL 2018
### Morning Sessions

#### SYMPOSIUM

**Kosovel Hall**

**Update: Exercise in heart failure**

Chairpersons: M. Halle (Munich, DE); M. Guazzi (San Donato Milanese, IT)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>11:00</td>
<td>Novel insights on pathophysiology of HFpEF.</td>
<td>V. Adams (Dresden, DE)</td>
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<td>11:22</td>
<td>Differences between spiroergometric data from HFrEF and HFpEF.</td>
<td>P. J. M. Beckers (Edegem, BE)</td>
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<tr>
<td>11:45</td>
<td>Determinants of exercise capacity in HFpEF and HFrEF.</td>
<td>G. Bajraktari (Prishtina, XK)</td>
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<tr>
<td>12:07</td>
<td>Novel clinical data from randomized exercise intervention trials in HFpEF and HFrEF.</td>
<td>A. Duvinage (Munich, DE)</td>
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#### SPECIAL SESSION

**Stih Hall**

**EAPC Young Community session New Fields in Preventive Cardiology**

Chairpersons: S. Sharma (London, GB); G. E. Pieles (Bristol, GB)

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker</th>
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</thead>
<tbody>
<tr>
<td>11:00</td>
<td>Congenital heart defects and exercise. Promoting health while controlling the risks.</td>
<td>S. S. Busnatu (Bucharest, RO)</td>
</tr>
<tr>
<td>11:22</td>
<td>Cardiac rehabilitation for patients after Mitraclip.</td>
<td>T. Schmidt (Bad Rothenfelde, DE)</td>
</tr>
<tr>
<td>11:45</td>
<td>A cardiovascular prevention strategy for each age. Building health during each phase of life.</td>
<td>O. Sivakova (Moscow, RU)</td>
</tr>
<tr>
<td>12:07</td>
<td>How to interpret the ECG of children practicing sports: can current recommendations be applied in pre-adolescent athletes?</td>
<td>G. McClean (Doha, QA)</td>
</tr>
</tbody>
</table>

#### RAPID FIRE ABSTRACTS

**E3**

**Rapid Fire Session II**

Chairpersons: C.H. Davos (Athens, GR); N. Kraenkel (Berlin, DE)

*Fast-paced and interactive session including presentation of 8 topic related abstracts. Each presentation will be followed by questions and discussions with the audience moderated by the Chairpersons.*

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00</td>
<td>Evaluation of outpatient phase III cardiac rehabilitation in Austria</td>
<td>V. Grote, P. Fasching, H. Brandstaetter, H. Puff, J. Sykora (Klagenfurt, AT)</td>
</tr>
<tr>
<td>11:11</td>
<td>Internet-based cognitive behavior therapy for symptoms of depression and anxiety among patients with a recent myocardial infarction: the UCARE Heart randomized trial</td>
<td>F. Norlund, E. Wallin, M.G. E. Olsson, J. Wallert, G. Burell, L. Von Essen, C. Held (Uppsala, SE)</td>
</tr>
<tr>
<td>11:22</td>
<td>Higher peak oxygen uptake is associated with higher left ventricular mass</td>
<td>M.R.P. Markus, T. Ittermann, S. Gross, M. Bahls, R. Ewerl, S. Glaeser, H. Voelzke, S.B. Felix, R. Buelow, M. Doerr (Greifswald, DE)</td>
</tr>
<tr>
<td>11:45</td>
<td>Social determinants of health and lifestyle behaviours as linking pathways in the english longitudinal study of ageing: the ATHLOS project</td>
<td>N. Kolia, F.F. Caballero, A. SanchezNiubo, S. Tyrovolas, J.L. AyusoMateos, J.M. Haro, S. Chatterji, D. B. Panagiotakos (Athens, GR; Madrid and Barcelona, ES; Geneva, CH)</td>
</tr>
</tbody>
</table>
FRIDAY, 20 APRIL 2018
Lunch-time Sessions

11:56 Disparities in stroke and cardiovascular mortality outcomes in aboriginal and non-aboriginal western australians hospitalised with atrial fibrillation
L. Nedkoff, E. Kelty, J. Hung, S. Thompson, J.M. Katzenellenbogen (Perth, AU)

12:07 Marked underdiagnosis and undertreatment of hypertension in Rheumatoid Arthritis: A large gap to close
M.U. Khan, U.A. Khan, F. Adeeb, E. Maher, J. Devlin, A. Fraser (Limerick and limerick, IE)

12:18 Multimorbidity and prediction of the 10year survival rate in rheumatoid arthritis
I.V. Osipova, J. Starodubova (Barnaul, RU)

12:45 - 13:45 SATELLITE SYMPOSIUM Linhart Hall

New opportunities in cardiac rehabilitation
Sponsored by SERVIER
Chairpersons: A. Cohen-Solal (Paris, FR); Z. Fras (Ljubljana, SI)
Whereas Cardiac Rehabilitation (CR) originated as an exercise program primarily for middleaged male patients with coronary heart disease, usually after a myocardial infarction and/or coronary artery bypass surgery, the range of eligible diagnoses and applications for CR has broadened over time. Several telerehabilitation strategies for coronary artery disease and heart failure patients have as a primary aim to improve cardiac patient care, also after the acute cardiac event. Therapeutic strategies could be associated with CR and therefore improve the outcome of cardiovascular.

12:45 Introduction: New opportunities in cardiac rehabilitation
Z. Fras (Ljubljana, SI)

12:50 E-health in clinical practice
M.C. Iliou (Issy Les Moulineaux Cedex, FR)

13:05 New targeted population for cardiac rehabilitation
D. Gaita (Timisoara, RO)

13:20 Optimizing treatments in cardiac rehabilitation
V.M. Volterrani (Rome, IT)

13:40 Conclusion: New opportunities in cardiac rehabilitation
A. Cohen-Solal (Paris, FR)

12:45 - 13:45 SATELLITE SYMPOSIUM Kosovel Hall

Inflammation in atherosclerosis: translating science into practicable solutions
Sponsored by Novartis Pharma AG
Chairpersons: U. Landmesser (Berlin, DE)
After this session, participants will be able to understand:
• The role of inflammation in atherosclerosis.
• That “residual inflammatory risk” is distinct from “residual cholesterol risk” as an independent risk factor for atherosclerosis.
• That residual inflammatory risk can be easily diagnosed with available biomarkers - e.g. elevated HsCRP
• The role for tailored therapeutic strategies to reduce residual inflammatory risk and improve outcomes for post-MI patients.

12:45 Welcome and introduction: Inflammation in atherosclerosis: translating science into practicable solutions
U. Landmesser (Berlin, DE)

12:48 Inflammation in atherosclerosis: translating science into practicable solutions
P. Libby (Boston, US)

13:08 Clinical residual cardiovascular risk: what are the markers?
W. Koenig (Munich, DE)

13:28 Advancing standard of care in postmyocardial infarction (MI) patients with elevated high sensitivity C-reactive protein (hsCRP)
U. Landmesser (Berlin, DE); P. Libby (Boston, US); W. Koenig (Munich, DE)

13:43 Summary and closure: Inflammation in atherosclerosis: translating science into practicable solutions
U. Landmesser (Berlin, DE)
## SATELLITE SYMPOSIUM

**FRIDAY, 20 APRIL 2018**

**Afternoon Sessions**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>12:45</td>
<td>What is speckle tracking and what does it provide me to assess cardiac function?</td>
<td>WJ Gorissen (Zevenhuizen, NL)</td>
</tr>
<tr>
<td>13:05</td>
<td>Evaluating training adaptations vs cardiac disease in athletes by echocardiography.</td>
<td>M Sitges (Barcelona, ES)</td>
</tr>
<tr>
<td>13:25</td>
<td>The role of exercise stress echocardiography in sports cardiology.</td>
<td>G E Pieles (Bristol, GB)</td>
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</table>

**Learning Objectives:**

- to understand the specific demands of investigating adolescent elite athletes
- to learn about advanced echocardiographic functional imaging tools in athletes
- to understand myocardial functional adaptations to elite training in childhood and adolescence
- to understand cardiac and myocardial mechanics and physiology during exercise in healthy athletes
- to learn about the role myocardial deformation (strain) imaging in the assessment of athletes
- to understand the role of echocardiography in the diagnosis of pathology in athletes

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## SYMPOSIUM

**Linhart Hall**

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>14:22</td>
<td>Lifestyle, blood pressure and lipids management.</td>
<td>G. De Backer (Sint Martens Latem, BE)</td>
</tr>
<tr>
<td>14:45</td>
<td>Identifying and managing dysglycaemia and diabetes.</td>
<td>L. Ryden (Stockholm, SE)</td>
</tr>
<tr>
<td>15:07</td>
<td>Implications for clinical practice.</td>
<td>D. A. Wood (London, GB)</td>
</tr>
</tbody>
</table>

**What is new in the management of people with CHD? EUROASPIRE V survey on cardiovascular disease prevention and diabetes**

**Chairpersons:** Z. Fras (Ljubljana, SI); D.E. Grobbee (Utrecht, NL)

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## SYMPOSIUM

**Kosovel Hall**

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>14:00</td>
<td>Cardiovascular Risk distribution in men and women: Molecular Mechanisms.</td>
<td>V. Regitz-Zagrosek (Berlin, DE)</td>
</tr>
<tr>
<td>14:22</td>
<td>What can we learn from the athletes? Exercise parameters in men and women.</td>
<td>S. Sharma (London, GB)</td>
</tr>
<tr>
<td>14:45</td>
<td>Gender differences in response to exercise training in the general population and in patients with cardiovascular diseases.</td>
<td>T. Moholdt (Trondheim, NO)</td>
</tr>
<tr>
<td>15:07</td>
<td>Motivation and obstacles - What keeps women and men from exercising?</td>
<td>A. H. E. M. Maas (Nijmegen, NL)</td>
</tr>
</tbody>
</table>
### Featured Symposium

**New technologies for diagnosing arrhythmias in athletes**  
Chairpersons: K. Azman Juvan (Ljubljana, SI); A. Pelliccia (Rome, IT)  
1. Clinical management of the athlete with palpitations/arrhythmias (a common clinical issue),  
2. The role of evolving technologies in rhythm diagnosis,  
3. Learn when to consider referral of the athlete for EPS and what may be gained

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<thead>
<tr>
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<th>Location</th>
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<tbody>
<tr>
<td>14:00</td>
<td>Diagnostic approach to the athlete with palpitations</td>
<td>A. Biffi (Rome, IT)</td>
<td>E3</td>
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<tr>
<td>14:22</td>
<td>Implantable loop recorders, handhelds and wearables: what is the best diagnostic tool?</td>
<td>F. Carre (Rennes Cedex, FR)</td>
<td>E3</td>
</tr>
<tr>
<td>14:45</td>
<td>Imaging and arrhythmias</td>
<td>A. La Gerche (Melbourne, AU)</td>
<td>E3</td>
</tr>
<tr>
<td>15:07</td>
<td>Indications for an electrophysiological study in athletes</td>
<td>A. G. Stuart (Bristol, GB)</td>
<td>E3</td>
</tr>
</tbody>
</table>

### How-to Session E3

**State-of-the-art exercise prescription in patients with cardiovascular disease by the EXPERT tool**  
Chairpersons: M.C. Iliou (Issy Les Moulineaux Cedex, FR); H. Voller (Rudersdorf, DE)  
The prescription of exercise in rehabilitation should be evidence based. To guarantee a high standard with consideration of modifiers a digital training and decision support system could be a helpful tool

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<th>Location</th>
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<tbody>
<tr>
<td>14:00</td>
<td>Exercise prescription in cardiovascular patients: do we need an EXPERT tool.</td>
<td>D.R.M.J. Hansen (Hasselt, BE)</td>
<td>E3</td>
</tr>
<tr>
<td>14:22</td>
<td>Exercise prescription in a case of diabetes with multiple other cardiovascular risk factors.</td>
<td>J. Niebauer (Salzburg, AT)</td>
<td>E3</td>
</tr>
<tr>
<td>14:45</td>
<td>Exercise prescription in a case of coronary artery disease.</td>
<td>P. Doherty (York, GB)</td>
<td>E3</td>
</tr>
<tr>
<td>15:07</td>
<td>Exercise prescription in a case of heart failure disease.</td>
<td>F. Edelmann (Berlin, DE)</td>
<td>E3</td>
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</tbody>
</table>

### Moderated Posters

**Moderated Poster Session IV**  
Chairpersons: G. Bajraktari (Prishtina, XK); M. F. Piepoli (Piacenza, IT)  
Posters are on display in the exhibition area from 08:30 until 18:00. During the session (15:30-16:30), each poster presenter will have 5 minutes to briefly summarise

- Ventricular assist device implantation is associated with higher levels of physical activity in patients with advanced heart failure  
  N. Moreno Suarez, S. Liew, R. Larbalestier, L. Dembo, A. Maiorana (Perth, AU)  
- Respiratory muscle weakness predicts allcause mortality in chronic heart failure patients with preserved left ventricular ejection fraction  
- Inverse association between cardio-respiratory fitness estimated by a km moderate treadmill walk and mortality in hypertensive patients with cardiovascular disease  
Successful diabetes prevention the Prevention First longitudinal study (PFLS)
J. Scholl, P.U. Kurz (Rüdesheim am Rhein, DE)

Accelerated cardiovascular disease incidence and progression by increasing levels of hypercholesterolemia in population with existing cardiovascular disease.
I. Roman Degano, M. Garcia, R. Ramos, A. Zamora, M. Comas-Cufí, A. Frances, J. Marrugat (Madrid/Barcelona, Girona and Barcelona, ES)

Effectiveness of CHA2DS2-VASc based decision support on stroke prevention in atrial fibrillation: A cluster randomized trial in general practice
S. Van Doorn, F.H. Rutten, C.M. O’Flynn, R. Oudega, A.W. Hoes, K.G.M. Moons, G.J. Geersing (Utrecht, NL)

Effect of depression on allcause mortality in patients with congestive heart failure and implanted cardiac devices
G.S. Pushkarev, V.A. Kuznetsov, Y.A. Fisher, A.M. Soldatova, T.N. Enina (Tomsk, RU)

Employment status after myocardial infarction in young patients
A.M. Andronescu, C.S. Stamate, A.C. Nechita, D. Carvalho, D. Bento, J. Guedes, T. Mota, S. Pereira, W. Santos, J. Mimoso, I. Jesus (Faro, PT)

Secondary prevention in octogenarians admitted with an acute coronary syndrome: does age matters?
P.M. Azevedo, J. Bispo, D. Carvalho, D. Bento, J. Guedes, T. Mota, S. Pereira, W. Santos, J. Mimoso, I. Jesus (Faro, PT)

Effects of exercise training type and duration in patients with peripheral artery disease: a randomised controlled trial
M. Novakovic, T. Kambic, B. Kreve, T. Vizintin Cuderman, Z. Fras, B. Jug (Ljubljana, SI)

16:30 - 18:00  SYMPOSIUM  Linhart Hall
High intensity interval training as a rehabilitation model in coronary artery disease: what ´s the evidence?
Chairpersons: P. Dendale (Hasselt, BE); T. Berger (Freistadt, AT)
The symposium will provide an overview of high intensity interval training as a rehabilitation model in coronary artery disease. Enhanced knowledge of the effects of high intensity interval training features on cardiovascular function from healthy to cardiac patients will be introduced. The optimal high intensity interval training protocol as well as safety issues will be discussed.

16:30  High intensity interval training vs. moderate intensity training: cardiovascular adaptations.
O. J. Kemi (Glasgow, GB)

16:52  High intensity interval training vs. moderate intensity training: CVD risk factors.
L. E. M. Vanhees (Leuven, BE)

17:15  Optimal high intensity interval training protocol for cardiac patients.
P.M. Meyer (Geneva, CH)

17:37  High intensity interval training in practice: feasibility, safety, homebased training.
M. Halle (Munich, DE)

16:30 - 18:00  DEBATE SESSION  Kosovel Hall
The obesity debate
Chairpersons: C.H. Davos (Athens, GR); N. D. Wong (Irvine, US)
This pro and con session should clarify how to handle obesity in different stages of prevention and diagnosis.

16:30  Obesity is a cardiovascular risk factor  PRO.
C.H. Davos (Athens, GR)

16:52  Obesity is a cardiovascular risk factor  CONTRA.
W. Doehner (Berlin, DE)

17:15  Normal weight obesity and metabolic healthy obesity: clarifications of definitions.
E. Standl (Munich, DE)

17:37  Fitness, physical activity and the obesity paradox in coronary heart disease.
T. Moholdt (Trondheim, NO)
Disease management in congestive heart failure and the role of telemedicine.
Chairpersons: D.A.O. De Bacquer (Ghent, BE); D. B. Panagiotakos (Athens, GR)

Disease management in congestive heart failure (CHF) patients is suboptimal, indicated by insufficient uptake of evidence-based clinical practice guidelines. Home-based management programs using telemonitoring demonstrate improved adherence behaviors and significant clinical improvements in this patient population. This session aims to provide a state of the art overview of risk modelling in CHF, and to outline the role of telemonitoring in improved disease management.

16:30  Risk modelling in congestive heart failure patients.
S. Pardaens (Ghent, BE)

16:52  How Telemedicine might impact on congestive heart failure patients.
S. Nodari (Brescia, IT)

17:15  Preventing hospitalizations of congestive heart failure patients through telemonitoring.
C. Slemenik Pusnik (Slovenj Gradec, SI)

17:37  HeartMan: the development of a personal decision support application for the management of heart failure.
M. Lustrek (Ljubljana, SI)

Young investigator award session IV - Prevention, Epidemiology & Population Science (PEP)
Chairpersons: M. Verschuren (Bilthoven, NL); P. Marques Vidal (Lausanne, CH)
Judge(s): J. P. S. Sawhney (New Delhi, IN); V. Vassiliou (Cambridge, GB); E. Di Angelantonio (Cambridge, GB); H. Itoh (Tokyo, JP)

Six abstracts selected for their outstanding quality. Finalists will be presenting their research in front of an appreciative audience, chairpersons and judges expert in the topic. A winner will be awarded a diploma and a prize of €500.

Influence of physical fitness and activity on advanced glycation end-products accumulation in children
S. Koechli, K. Endes, M. Trinkler, M. Mondoux, L. Zahner, H. Hanssen (Basel, CH)

The effectiveness of smartphone application for lifestyle improvement in noncommunicable diseases: a systematic review and meta-analyses

Prognostic impact of nonobstructive coronary artery disease: a coronary computed tomographic study
D. Kosuta, Z. Fras, B. Jug (Ljubljana, SI)

Normal-weight central obesity and long-term cardiovascular events: a prospective population-based cohort study.

Autonomic nervous system might be key for the low dose health benefits in older people.
The PROOF cohort study.
D. Hupin, V. Pichot, M. Garet, J. Raffin, M. Berger, S. Celle, P. Edouard, J.C. Barthelemy, F. Roche (Saint-Etienne, FR)

CystatinC and CD14 in plasma extracellular vesicles are associated with both renal dysfunction and heart failure in patients presenting with dyspnoea
L. Willemsen, C.S.P. Lam, Y.N. Zhang, I. Ibrahim, S.B.S. Ooi, W.S. Kuan, S.P. Chan, L.M. Peelen, D.E. Grobbee, A.M. Richards, D.P.V. De Kleijn (Utrecht, NL; Singapore, SG)
Poster Session 2
Posters to be on display between 08:30 - 18:00
Poster viewing tours and discussion question: during coffee the break from 10:00 - 11:00. Presenters are required to be by their poster in order to discuss the poster with the audience.

<table>
<thead>
<tr>
<th>Poster Session 2</th>
<th>Poster Area</th>
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<tbody>
<tr>
<td><strong>ARRHYTHMIAS AND DEVICE THERAPY</strong></td>
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<tr>
<td><strong>Arrhythmias and device therapy - Poster discussant:</strong></td>
<td>P383</td>
</tr>
<tr>
<td>T. Berger (Freistadt, AT)</td>
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<tr>
<td>The frequency of cardiac arrhythmias in people with obesity and metabolic syndrome</td>
<td>P384</td>
</tr>
<tr>
<td>A. Novakovic, S. Kostic (Niš and Niska Banja, Nis, RS)</td>
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<tr>
<td>SCN5A polymorphisms associated with familial wolff-parkinson-white syndrome among a Russian population</td>
<td>P385</td>
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<tr>
<td>A. Chernova, I. I. Lebedeva, S. Y.U. Nikulina (Krasnoyarsk, RU)</td>
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<tr>
<td>Classification of extrasystolic arrhythmia from the point of its functional importance</td>
<td>P386</td>
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<tr>
<td>O. A. Germanova (Samara, RU)</td>
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<tr>
<td>Predictive performance of the CHA2DS2-VASc rule in atrial fibrillation: a systematic review and meta-analysis</td>
<td>P387</td>
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<tr>
<td>S. Van Doorn, T.P.A. Debray, F. Kaasenbrood, A.W. Hoes, F.H. Rutten, K.G.M. Moons, G.J. Geersing (Utrecht, NL)</td>
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<tr>
<td>Predictors of atrial fibrillation progression in patients with congestive heart failure</td>
<td>P388</td>
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<tr>
<td>V. Podzolkov, A. Tarzimanova, M. Pisarev, R. Gataulin (Moscow, RU)</td>
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<tr>
<td>An early evaluation of atrial fibrillation, could decrease the average stay in orthopaedic surgery?</td>
<td>P389</td>
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<tr>
<td>A. M. Garrido Castro, P. Losada Mora, J.L. Carrillo Linares (Malaga, ES)</td>
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<tr>
<td>An early evaluation of atrial fibrillation, could decrease the average stay in vascular surgery?</td>
<td>P390</td>
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<tr>
<td>P. Losada Mora, A. M. Garrido Castro, J.L. Carrillo Linares (Malaga, ES)</td>
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<tr>
<td>Pathological values of high sensitive troponin in hospitalized patients with paroxysmal atrial fibrillation</td>
<td>P391</td>
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<tr>
<td>E. Foukarakis, K. Zekios, M. Pitarokoilis, E. Rogdakis, P. Tzortzakis, A. Papoutsakis, G. Giannias, E. Kouroupakis,</td>
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<tr>
<td>S. Staurakis, E. Leonidou, A. Katsiavos, P. Kafarakis, G. Garidas (Iraklion Crete, GR)</td>
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<tr>
<td>Effect of revalidation on patients after AF ablation</td>
<td>P392</td>
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<tr>
<td>J. Pirotte (Bouge, BE)</td>
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<tr>
<td>An early evaluation of atrial fibrillation, could decrease mortality in orthopaedic surgery?</td>
<td>P393</td>
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<tr>
<td>A. M. Garrido Castro, P. Losada Mora, J.L. Carrillo Linares (Malaga, ES)</td>
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**HEART FAILURE**

**Heart failure - Poster discussant:**                                                                                   | P394        |
| F. Edelmann (Berlin, DE)                                                                                              |             |
| Predictors of mid-term re-hospitalizations and mortality rates in Bulgarian patients with HFrEF                     | P395        |
| Efficacy of long lasting therapy with ramipril and eprosantan on diastolic dysfunction, functional class of HFrEF and insulin resistance in hypertensives | P396        |
| N. Sapojnic, A.P. Carausch, M.A. Carausch, A.I. Bitca, C.D. Roibu (Chisinau, MD)                                  |             |
| Effect of individual therapeutic management of newonset atrial fibrillation for duration of chronic heart failure   | P397        |
| I. Ilchenko, Y. Shaposhnikova (Kharkiv, UA)                                                                          |             |
| Impact of sacubitril/valsartan on functional exercise capacity and quality of life in patients with heart failure with reduced ejection fraction | P398        |
| C. Mantis, A. Anadiotis, S. Patsilinakos (Athens, GR)                                                                |             |
| Reverse myocardial remodeling after aerobic training in heart failure patients                                        | P399        |
| T. Lelyavina, M.Y.U. Sitnikova, V.L. Galenko, P.S. Kozlov, M.A. Bortzova, E.A. Demchenko (Saint Petersburg, RU)    |             |
| Mitral Balloon Valvuloplasty: risk factors for lack of success, severe mitral regurgitation and major complications | P400        |
Gender differences in clinical presentation and management for elderly patients with congestive heart failure in a tertiary care hospital
C. Vlad, M. Valeanu (Cluj Napoca, RO)

Comparative epidemiological study of risk factors, etiology and causes of re-hospitalization due to decompensated chronic heart failure patients.

Hyponatremia in patients with chronic heart failure: prevalence and risk factors
A.N. Zagoruiiko, N.T. Vatutin, A.N. Shevelok (Donetsk, UA)

Non-response predictors to physical training in heart failure patients
V.I. Galenko, T.A. Lelyavina, M.Y. Sitnikova (SaintPetersburg, RU)

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CORONARY ARTERY DISEASE, ACUTE CORONARY SYNDROMES, ACUTE CARDIAC CARE

Coronary artery disease, acute coronary syndromes, acute cardiac care - Poster discussant: H. HASAN ALI (Assiut University Hospitals, Assiut, EG)
The relationship between carotid intima-media thickness and baroreflex sensitivity in coronary artery disease and type 2 diabetes patients
M. Gois, R. Polaquin Simoes, S.C.G. M, V.C. Kunz, P. Driusso, H.S. Hirakawa, A. Porta, A.M. Catali (Sao Carlos and Sao Paulo, BR; Milan, IT)
Non-st-elevation acute coronary syndrome in peri and postmenopausal women: risks and features of the current
V.V. Protsko, T.M. Solomenchuk (L'viv, UA)

Effects of adherence to lipid-lowering therapy on coronary plaques composition in patients with CAD
Systolic blood pressure peak responses to submaximal isometric exercise in coronary artery disease patients: effects of different performed-position
M. Gois, R. Polaquin Simoes, V.C. Kunz, C.M. Pastre, A.M. Catali (Sao Carlos, Sao Paulo and Presidente Prudente, BR)
Participation in cardiac rehabilitation is associated with low risk of cardiovascular events in acute myocardial patients
H. Origuchi (Kitakyushu, JP)

Chronic inflammation and oxidative stress in the pathogenesis of primary microvascular angina
I. A. Leonova, O. Zaharova, S. Boldueva, L. Gaykovaya (StPetersburg, RU)

Correlation of age and iron deficiency in patients with coronary artery disease
A. Gomiscek, P. Haller, C. Wegmayr, E. Plackova, M. Rohla, K. Huber (Vienna, AT)

Intervention and analysis of independent risk factors for death or events

Electrocardiographic parameters, size infarction, time to reperfusion, average hospital stay and cardiovascular mortality in patients with acute left circumflex occlusion.

Fiveyear outcomes of percutaneous coronary interventions in a single centre without surgical backup
B. Fouad, S. Anwer, S. Moharem-Elgamal, G. Kazamel, F. Mahgoub, G. Nasr, J. Grapsa, A. Magdy (Cairo and Ismailia, EG; Atlanta and Ohio, US)

Effectiveness and cost-effectiveness of a novel cardiac rehabilitation program for obese patients with coronary artery disease or atrial fibrillation. Study protocol of the OPTICARE XL study

Failure to achieve LDL cholesterol targets. Patient-related factors in a very high population setting
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Verifynow testing system for predicting the risk of hemorrhagic complications in patients on prolonged aspirin therapy, undergoing elective coronary artery bypass grafting
K. Krlivoshapaova, O.L. Barbarash (Kemerovo, RU)

HYPERTENSION

Hypertension - Poster discussant:
J. A. Laukkanen (Jyvaskyla, FI)
Non-invasive markers of atherosclerosis and arterial stiffness and cardiovascular risk scores in patients with hypertension
S. Kostic, D. Djordjevic, I. Tasic, D. Mijkovic (Niska Banja, Nis and Nis, RS)
The correction of emotional behavior may improve the effectiveness of antihypertensive therapy in the workplace in patients with hypertension
G. F. Andreeva, A. Deev, V. Gorbunov, D. Lyusin (Moscow, RU)
Is cardiorespiratory fitness independently associated with biochemical profile in adults with overweight/obesity and primary hypertension? EXERDIETHTA study
Correlations between the ambulatory blood pressure profile and endothelial dysfunction in hypertensive patients with diabetes mellitus type 2.
M.V. Derevyanchenko, M.E. Stansenko (Volgograd, RU)
Screening for depression and cognitive impairment is useful in hypertensive patients admitted to a cardiovascular rehabilitation clinic
Seasonal variability of blood pressure in outpatients without arterial hypertension diagnosis: high prevalence of isolated increase of ambulatory blood pressure
V. M. Gorbunov, M.I. Smirnova, D.A. Volkov, A.D. Deev, Y.N. Kosheleyevskaya, S.A. Boytsov (Moscow, RU)
Relationship of central hemodynamics parameters with cardiovascular remodeling in patients with uncomplicated essential hypertension according to age and body mass index
A. Nadiuk, T. Kolesnyk, H. Kosova, E. Kolesnyk (Dnipropetrovsk and Dnepropetrovsk, UA)
Incidence and peculiarities of arterial hypertension in patients with psoriasis vulgaris in Pleven region
K. D. Gospodinov, N. Stancheva, Y. Mladenova, S. Tisheva (Pleven, BG)
Workplace ambulatory blood pressure level correlated with emotional intelligence in patients with hypertension
G. F. Andreeva, A. Deev, V. Gorbunov, D. Lyusin (Moscow, RU)
Dispersion of QT-interval and remodeling of myocardium at patients with an arterial hypertension
A. V. Smolensky (Moscow, RU)

RISK FACTORS AND PREVENTION – EPIDEMIOLOGY

Risk Factors and Prevention - Epidemiology - Poster discussant:
G. S. Tell (Bergen, NO)
Are behaviour of amateur french rugby players safe for their hearts?
Association between C-reactive protein and all-cause mortality and cardiovascular events in the Russian Federation. Preliminary results from ESSE-RF study
Association between dietary patterns and selected socio-economic and lifestyle factors in Polish adults
A. Czekajlo, D. Rozanska, K. Zatonska, A. Szuba, B. Regulska  Ilow (Wroclaw, PL)
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Protein and carbohydrate intake, cardiovascular disease risk and successful aging: combined analysis of two epidemiological studies  
(Athens, GR; Barcelona, ES; New Brunswick, US)

Heart rhythm in teenage smokers  
E.I. Gakova, E.V. Akimova, A.A. Gabova, V.A. Kuznetsov (Tyumen, RU)

Familial hypercholesterolemia and acute coronary syndrome. Is it a failure in primary prevention?  
A. Velez Salas, A.R.P. Adrian Rivas, F.J.I. Francisco Javier Irazusta, R.D.G. Regina Dalmau,  
A.C.F. Almudena Castro, J.L.S. Jose Luis Lopez Sendon (Madrid, ES)

Genetic variants in neuropeptide genes and risk of coronary heart disease: preliminary results from the Molisani study  
F. Gianfagna, C. Grippi, F. Noro, B. Izzi, A. De Curtis, S. Costanzo, A. Di Castelnuovo, M. Persichillo,  
C. Cerletti, M.B. Donati, G. De Gaetano, L. Iacoviello (Varese and Pozzilli, IT)

Cardiovascular risk, ECG anomalies and asymptomatic carotid atherosclerosis in a general population.  
Preliminary results from "No Ictus No Infarct" screening project of the Rotary International  
S. Novo, A. Mignano, C.M. Puscasu, C. Nemet, N. Scibilia (Palermo and Sicilia Malta, IT; Brasov, RO)

Aging, lifestyle habits and cardiometabolic disorders in a Mediterranean population: the multinational MEDIS study  
A. Foscolou, S. Tyrovolas, G. Soulis, V. Bountziouka, E. Polychronopoulos, G. Gotsis, G. Metallinos,  
(Athens and Heraklion, GR; Barcelona, ES; New Brunswick, US)

The accuracy of a point of care equipment, HemoCue Glucose 201 RT, for dysglycaemia screening in patients with coronary artery disease: Results from EUROASPIRE  
B. Shahim, V.B.N. Bostrom Nilsson, V.G. Gyberg, C.J. Jennings, S.S. Smetana, B.K. Kjellstrom,  
L.R. Ryden (Stockholm, SE; London, GB)

Implementing lipid profile changes in a very high-risk cohort: challenges from the EuroASPIRE database  
S. L. Mosteouru, K. Kotseva, O.C. Cosor, L. Gaita, R. Pleava, A.S. Dumitrescu, G. MutVitcu,  
D. Gaita, S. Mancas, D. Wood (Timisoara, RO; London, GB)

Risk factors control in Russian cohort of the primary care arm of EUROASPIRE IV  
Y.M. Pozdnjakov, A.O. Salibieva, A.I. Yusubova (Moscow, RU)

Risk factors difference in pattern of coronary artery disease in rural women versus urban women of India.  
H.A.R.I. Kishan (Jaipur, Bangalore and Mumbai, IN)

PREVENTIVE CARDIOLOGY  
Preventive cardiology - Poster discussant:  
M. Ruscica (Milan, IT)

Association between dietary glycemic load and lipid profile in a selected adult Polish population without history of diabetes type II  
D. Rozanska, A. Czekajlo, K. Zatonska, A. Szuba, B. Regulska Ilow (Wroclaw, PL)

Profile of population of PURE Poland study at higher risk of developing chronic diseases according to AHEI-2010 score  
A. Basiaik, D.G.D. Daqmary Gawe1-Dabrowska, A.T. Andrzej Tukiendorf, K.P.Z. Katarzyna Poltyn Zaradna,  
M.W. Maria Wolyniec, A.S. Andrzej Szuba, K.Z. Katarzyna Zatonska (Wroclaw and Gliwice, PL)

Dietary habits in patients with high/very high cardiovascular risk seen in health centers  
N. Pogosova, A.I. Yusubova, Y.M. Yufereva, A.O. Salibieva, A.V. Karpova, A.K. Ausheva (Moscow, RU)

Ethnic differences in eating habits in two CIS countries: Russia and Kyrgyzstan  
A.N. Halmatov, Y.A. Balanova (Moscow and Samara, RU; Bishkek, KG)

The "smoking paradox" in patients with acute coronary syndrome and longterm outcomes in different age groups (data of Russian registry RECORD-3)  
A.D. Erlikh (Moscow, RU)
Smoking behaviour among Canadian nurses: cross-sectional results from the Champlain Nurses Study  
G. Leblanc, R.D. Reid, A.L. Pipe, K.A. Mullen, J.L. Reed (Ottawa, CA)  
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Smoking cessation support in Russian cohort of the primary care arm of EUROASPIRE IV  
Y.M. Pozdnyakov, A.O. Salbieva, A.I. Yusubova (Moscow, RU)  
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Rates of smoking cessation highest in cardiology admissions in an in-patient smoking cessation programme  
J.H. J. See, K. Poh, Y. C. Lum (Singapore, SG)  
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Effectiveness of varenicline in smoking cessation. 2 year follow-up of a greek population  
K. Triantafyllou, S. Matsiris, C. Papadopoulos, A. Mademli, I. Theodorou, M. Meletidou,  
V. Vassilikos (Thessaloniki, GR)  
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Electronic nicotine delivery systems (ENDS) usage and cardiovascular diseases risk  
O. Sribna, O. Kvasha (Kyiv, UA)  
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RISK FACTORS AND PREVENTION – CARDIOVASCULAR RISK ASSESSMENT

Risk Factors and Prevention – Cardiovascular Risk Assessment - Poster discussant:  
G. Krstacic (Zagreb, HR)  
P455

Influence of insulin resistance and hyperinsulinism on heart rate variability, myocardial strain  
and arterial stiffness  
S. Novo, G. Manno, S. Cangemi, S. Evola, V. Evola, P. Levantino, G. Vitale, G. Novo (Palermo, IT)  
P456

The relationship between subclinical cardiovascular disease assessment and SCORE risk in  
asymptomatic population  
O. Mitu, A.O. Petris, M. Roca, I. Costache, R. Al Namat, I. Tudorancea, A.M. Buburuz, I. Mitu, R.S. Gavril,  
M.M. Leon Constantin, F. Mitu (Iasi, RO)  
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Short-term exponent of the detrended fluctuation analysis (DFA-a1) as a tool to support the heart  
team decision between surgical aortic valve replacement and transcatheter aortic valve implantation  
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New risk category OVERFAT as a good predictor of cardiometabolic risk  
J. Scholl, P.U. Kurz (Rüdesheim am Rhein, DE)  
P459

Prognostic value of endothelial markers in hypertensive patients without cardiovascular complications  
N. Murashko, V. Podzolkov, A. Bragina, D. Bayutina, A. Kvasnikov (Moscow, RU)  
P460

Cardiovascular risk factors in young adults aged 16-50 years with ischemic stroke: a five years  
observational study  
K. Angkun, J.U.K. Suwanno, K. Rajbhirug, J.O.M. Suwanno (Hat Yai, Songkhla and Thasala,  
Nakhon Si Thammarat, TH)  
P461

Subclinical vascular damage in Russian population: searching the preferable method  
A.S. Aliyeva, O. Rotar, M. Boyarinova, A. Orlov, A. Erina, E. Moguchaya, V. Sointsev, A. Konradi,  
E. Shlyakhto (Saint-petersburg and saint-petersburg, RU)  
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Awareness of the risk factors and symptoms of myocardial infarction in patients with acute coronary syndrome  
D. Bryliakova, A. Belopolskaya, G. Kukharchik, L. Sorokin (Saint Petersburg, RU)  
P463

A 1-year structured lifestyle program in clinical practice reduces cardiovascular risk for individuals with  
high cardiovascular risk.  
M. Lidin, M. L. Hellenius, M. Rydell Carlsson, E. Ekblom-Bak (Stockholm, SE)  
P464

Genetic markers, occupational factors and their impact on development of the arterial hypertension  
in male industrial organized cohort  
A. N. Britov, A.N. Meshkov, S.A. Tyupaeva, N.A. Eliseeva, A.V. Kiseleva, M.V. Klimushina, A.D. Deev,  
O.M. Dragpina (Moscow and Korolev, Moscow region, RU)  
P465

Associations of blood chemistry parameters with subclinical coronary atherosclerosis  
N. Pogosova, I.E. Kollunov, N.P. Kachanova, Y.M. Yufereva, V.A. Vygodin (Moscow, RU)  
P466

Cardiovascular risk factors in recurrent and non-recurrent stroke: results from one acute ischemic stroke registry of a developing country  
J. Suwanno, J. Suwanno, K. Angkun, K. Rajbhirug (Hat Yai, Songkhla and Thasala, Nakhon Si Thammarat, TH)  
P467
Risk factors for cardiovascular events, echocardiographic ranges, endothelial function, level of leptin and level of creatinine in patients with coronary heart disease combined with liver pathology.

M. Grechanyk, N. Grechanyk, A. Kuryata (Dnepropetrovsk, UA)

DIABETES AND THE HEART

Diabetes and the Heart - Poster discussant:

M. Mamas (Stockport, GB)

Characteristics of type 2 diabetes mellitus patients older than 75 years

V. Bralic Lang (Zagreb, HR)

Impact of cardiac rehabilitation on diabetic patients management: safety and effects of novel antidiabetic drugs


The predictors of stroke in patients with concomitant arterial hypertension and diabetes mellitus of type 2 in Ukrainian population of Bukovina region

E. Shorikov, D. Shorikova (Chernivtsi, UA)

An early evaluation of diabetes, could decrease decompensations in orthopaedic surgery?

A. M. Garrido Castro, P. Losada Mora, J.L. Carrillo Linares (Malaga, ES)

An early evaluation of diabetes, could decrease decompensations in vascular surgery?

P. Losada Mora, A. M. Garrido Castro, J.L. Carrillo Linares (Malaga, ES)

An early evaluation of diabetes, could decrease mortality in orthopaedic surgery?

A. M. Garrido Castro, P. Losada Mora, J.L. Carrillo Linares (Malaga, ES)

An early evaluation of diabetes, could decrease mortality in vascular surgery?

P. Losada Mora, A. M. Garrido Castro, J.L. Carrillo Linares (Malaga, ES)

Glycaemic indices and diabetes associated complications

C. J. Magri, R.G. Xuereb, J. Galea, S. Fava (Msida, MT)

STRESS, PSYCHOSOCIAL AND CULTURAL ASPECTS OF HEART DISEASE

Stress, PsychoSocial and Cultural Aspects of Heart Disease - Poster discussant:

L. Palmieri (Rome, IT)

Relationship and psychological distress among cardiac rehabilitation patients and their partners: Preliminary results of the CARE study.

H. Tulloch, K. Mckee, K. Lemay, S. Johnson, K. Zhang, P. Greenman (Ottawa, CA)

Prevalence of anxiety and depression symptoms using HADS and BDI surveys, in patients with myocardial infarction with non-obstructive coronary arteries

M. Daniel, F. Berglund, C. HofmanBang, P. Tornvall (Stockholm, SE)

The higher socio-economic status, the lower risk of cardiovascular death?


Depression and anxiety in patients with CHD: results of Russian part of international EUROASPIRE IV study

N. Pogosova, R. Oganov, S. Boytsov, A. Ausheva, O. Sokolova, A. Kursakov, Y. Pozdnyakov (Moscow, RU)

Medical and psychological counseling with the use of remote technologies and the level of stress, anxiety, depression and self-efficacy in patients with risk factors for cardiovascular disease

O. Silivakova, N. Sirotov (Moscow, RU)

Cardiovascular prevention in female population aged 25-44 years in Russia / Siberia: long-term trends

D. Panov, D. Gromova, E. Krymova, I. Gagulin, A. Gafarova, V. Gafarov (Novosibirsk, RU)

Psychosocial factors burden in workers with acute cerebro or cardiovascular events: a multidisciplinary prospective pilot study


Hostility and all-cause mortality in patients with coronary artery disease after percutaneous coronary intervention

G.S. Pushkarev, V.A. Kuznetsov, E.I. Yaroslavskaya (Tomsk, RU)
RISK FACTORS AND PREVENTION - OTHER
Risk Factors and Prevention - Other - Poster discussant: G. De Backer (Sint Martens Latem, BE)
Dynamic of Adiponectin level, insulin resistance in hypertensive females comorbid with rheumatoid arthritis on L-ARGININE ASPARTATE supplementation background
O. Sirenko, O. Kuryata (Dnipropetrovsk, UA)
Compliance of working employees after cardiovascular screening at work
A new tool for wellbeing promotion among healthy adolescents
F. Mastorci, G. Trivellini, C. Doveri, C. Vassalle, A. Pingitore (Pisa, IT)
Healthy lifestyle promotion on TV: the case of daily Greek soap operas
A. Ioannidis, A. Pechievani, M. Paraskeleidou (Thessaloniki, GR)
Motivation to improve awareness about cardiovascular risk factors in different types of hospitalized medical patients
N. Pogosova, I.V. Koltunov, N.P. Kachanova, Y.M. Yufereva, V.A. Vygodin (Moscow, RU)
Some features of ischemic heart disease among women of different age
I. A. Leonova, S. Boldueva, V. Feoktistova, N. Tretyakova, K. Tolkunova (St-Petersburg, RU)
The quality of life in patients with subclinical coronary atherosclerosis
N. Pogosova, I.E. Koltunov, N.P. Kachanova, Y.M. Yufereva, V.A. Vygodin (Moscow, RU)
Obesity risk factors: the opinion of the cardiac patient
I.V. Tyshchenko, O.O. Bondareva, M.Y. Dolnyk (Dnipropetrovsk, UA)
CARDIOVASCULAR REHABILITATION
Cardiovascular Rehabilitation - Poster discussant: N. D. Wong (Irvine, US)
The effect and safety of aerobic interval training according to the intensity of exercise in acute coronary syndrome
C. Kim (Seoul, KR)
Predictors of enrolment and attendance in cardiac rehabilitation in the 21st century, a multinomial analysis
C. Finn, G. Mc Kee, V. Maher, N. Fallon, N. Flynn, R. O Mahony, P. Mc Geary, V. Jones (Dublin, IE)
High intensity interval training is effective and superior to moderate continuous training in patients with heart failure with preserved ejection fraction: a randomized clinical trial
Feasibility of interval and continuous aerobic training modalities in patients early after myocardial infarction
Predictors of chronotropic competence improvement in patients with coronary artery disease undergoing cardiac rehabilitation
Benefits of high-intensity interval training in patients with coronary heart disease
The prediction model of functional capacity in patients undergoing cardiac rehabilitation after coronary artery bypass grafting
P. Alexandrov, N. Perepech, A. Lim (Saint Petersburg, RU)
Do gender differences in management after an acute coronary syndrome already exist? What happens with Cardiac Rehabilitation programmes?
Identification of circulating microRNAs potentially related to exercise capacity in patients with myocardial infarction

A trimodal prehabilitation program is feasible and also effective in increasing functional capacity and emotional state in candidates for cardiac surgery
M. Sanz de la Garza, M. Coca, M. J. Jarguis, R. Navarro, A. Bofill, M. Castella, M. Venturas, M. Sitges, G. Martinez-Palli (Barcelona, ES)

Baseline predictors of optimal improvement in functional capacity at the end of cardiac rehabilitation program in very old patients after acute coronary syndrome or heart surgery
A. Pratesi, S. Venturini, M. V. Silveri, S. Baldasseroni, F. Orso, C. Burgisser, F. Fattorolli (Florence, IT)

Universal feasibility of aerobic training prescription with the ventilatory thresholds method in cardiac rehabilitation
A. Durazzo, L. Moreno, A. Oliveira, S. Santos, M. Neto, M. Mendes (Lisbon and Coimbra, PT)

Acute hemodynamic responses during new resistive training modalities in cardiac rehabilitation
M. Lamotte (Brussels, BE)

Variable alterations in systolic and diastolic functional parameters after cardiac rehabilitation in patients with varying degree of initial cardiac dysfunction

Effects of a 1-year lifestyle intervention on cardiac diastolic function and cardiorespiratory fitness in men with severe coronary artery disease
M. E. Piche, P. Poirier, A. Marette, P. Mathieu, V. Levesque, K. Bibeau, E. Larose, J. P. Despres (Quebec, CA)

SPORTS CARDIOLOGY
Poster discussant:
S. Gati (London, GB)
The efficacy of the Ziopatch patch novel leadless prolonged ECG monitoring in athletes.

Presumably healthy “high risk individuals” have increased troponins following strenuous exercise - a NEEDED 2014 substudy
O. Kleiven, M. Bjorkavoll-Bergseth, K. M. Aakre, T. Melberg, O. Skadberg, B. Auestad, O. J. Greve, T. Omland, S. Orn (Stavanger, Bergen and Oslo, NO)

Comparison of different ECG Criteria in the interpretation of the Veteran Athlete's ECG.

Master endurance athletes: too much pressure?

Recreational exercise does not impair long-term outcome after catheter ablation of ventricular tachycardias in patients with arrhythmogenic right ventricular dysplasia/cardiomyopathy
A. Mudsisborgodt, C. Czimbalmos, A. Stauuber, L. Bertagnoli, K. Bode, N. Dagres, M. Doering, S. Richter, P. Sommer, D. Husser, A. Bollmann, G. Hindricks, A. Arya (Leipzig, DE; Budapest, HU; Bern, CH)

Cardiovascular adaptations in novice marathon runners

The effect of ethnicity on left ventricular adaptation to exercise

Can novice marathon runners develop an athlete's ECG?

Sudden cardiac arrest in sports: a video analysis
D. Steinskog, E. E. Solberg (Oslo, NO)
# FRIDAY, 20 APRIL 2018

**Poster Sessions**

## CARDIOVASCULAR DISEASE IN SPECIAL POPULATIONS

Cardiovascular disease in special populations - Poster discussant: A. H. E. M. Maas (Nijmegen, NL)

1. **P522**
   - **Cardiovascular disease in special populations**
   - **Poster discussant:** A. H. E. M. Maas (Nijmegen, NL)
   - **Vascular function and physical activity in patients with mild to moderate rheumatic disease**
   - **Free of cardiovascular comorbidities**
   - **Coronary multi-vessel disease in real life diabetic patients. Efficacy or effectiveness?**
   - **Age-related cardiovascular risk in adult patients with congenital heart disease**
   - **Reduced systolic function of right ventricle predict mortality in patients with renal replacement therapy**
   - **M. Cafta, M. Rroji, J. Seiti, S. Seferi, J. Diamandi, A. Goda (Tirana, AL)**
   - **Magnesium orotate is a promising therapy for not closed atrial or ventricular septal defect in pregnant patients**
   - **I.R. Gaisin, D.V. Abbazova, L.V. Shilina, Z.V. Vavilkina, E.S. Smirnova (Izhevsk, RU)**
   - **Framingham coronary heart disease risk does not correlate with coronary calcium burden in patients with essential thrombocytosis**
   - **M. Vrtovec, A. Anzic, I. Preloznik Zupan, K. Zaletel, A. Blinc (Ljubljana, SI)**

## CARDIOVASCULAR PHARMACOLOGY

Cardiovascular pharmacology - Poster discussant: J. Perk (Oskarshamn, SE)

1. **P529**
   - **Quality of life and its relationship with adherence to nicorandil in patients with stable angina pectoris**
   - **S. Martsevich, Y. Lukina, N. Kutishenko, A. Akimova (Moscow, RU)**
   - **Prediction of bleeding complications during warfarin intake**
   - **Improving adherence to medicines of secondary prevention results of a prospective multicenter follow-up study**
   - **G. Veress, I. Tiringer, A. Simon (Balatonfured and Pécs, HU)**
   - **The association of dose of statin with long-term adverse events in patients with st-segment elevation and non-st-segment elevation acute coronary syndrome**
   - **A.D. Eritkh (Moscow, RU)**
   - **Effect of single-session in-hospital counseling on cardioprotective drugs utilization after PCI**
   - **N. Pogosova, A.V. Karpova, A.K. Aushava, O.Y. Sokolova, Y.M. Yusereva (Moscow, RU)**

## E-CARDIOLOGY / DIGITAL HEALTH, PUBLIC HEALTH, HEALTH ECONOMICS, RESEARCH METHODOLOGY

E-cardiology / digital health, public health, health economics, research methodology - Poster discussant: J. Rawstorn (Melbourne, NZ)

1. **P535**
   - **A sustainability and cost-effectiveness study of telecardiology in athletes’ preparticipation screening programs in greece.**
   - **S. Karavasiliadou, E. Kouidi, N. Koutlianos, A. Deligiannis (Thessaloniki, GR)**
   - **SPODHA: Sport and health digital universe**
   - **M. Sanz-De La Garza, M. Villacorte, J.A. Rodas, R. Pi, J. Redondo, J. Gomez, I. Zabala (Oviedo and Barcelona, ES)**
   - **Acceptability of internet-based cognitive behavior therapy for adults with depression and anxiety after a myocardial infarction: a mixed methods study**
   - **E. Wallin, F. Norlund, E.M.G. Olsson, G. Burell, C. Held, T. Carlsson (Uppsala, SE)**
   - **HEARTMAN: protocol for a validation study of a wearable mobile device to improve disease management in patients with congestive heart failure**
   - **E. Clays, A. Baert, S. Pardaens, P.E. Puddu, M. Bohanec, A. Vodopija, M. Schiariti, M. Lustrek (Ghent, BE; Rome, IT; Ljubljana, SI)**
A European study on effectiveness and sustainability of current Cardiac Rehabilitation programmes in the elderly
E. P. De Kluiver (Zwolle, NL)

Validation of two wrist-worn devices for the assessment of energy expenditure in patients with chronic heart failure and coronary artery disease.
C. Herkert, J.J. Kraal, H.M.C. Kemps (Veldhoven, NL)

Cost-effectiveness of colchicine treatment on postoperative atrial fibrillation (POAF) events in patients of major cardiac surgery.

Sex differences in the burden of stroke among southeast asian countries: results from the global burden of disease study 2015

Prevalence and profile of chagas disease in the state of Rio de Janeiro in the last 5 years

Prospective urban and rural epidemiological study in Russia (the Kemerovo region): gender-related differences in the prevalence of cardiovascular risk factors
O.L. Barbarash, G.V. Artamonova, S. Maksimov, E.V. Indukaeva, D.P. Tsygankova, K.E. Krivoshapova (Kemerovo, RU)

Verification of cardiovascular events obtained by questionnaire in elderly patients after major non-cardiac surgery

Hypertriglyceridemia in asymptomatic subjects is an early indicator for cardiovascular structural and functional abnormalities
M. El Shahawy, A. Sabatini (Sarasota, FL, US; Florence, IT)
SATURDAY, 21 APRIL 2018
Morning Sessions

08:30 - 10:00

SYMPOSIUM Linhart Hall

**Nutrition in disease and rehabilitation What do you need to know?**
Chairpersons: C.H. Davos (Athens, GR); W. Doehner (Berlin, DE)
Nutritional aspects and counselling are hidden challenges in cardiac rehabilitation.
To comply with the requirement detailed information will be presented in different patient population.

08:30 Nutritional problems in chronic patients predictor of outcome.
A. Laviano (Rome, IT) 548

08:52 In-hospital nutritional deficits in elderly patients - how to detect, how to treat?
N. Pogosova (Moscow, RU) 549

09:15 Improving nutritional status during rehabilitation; What can we do?
D. Gaita (Timisoara, RO) 550

09:37 Systemic metabolic failure in chronic heart failure: What do we know, what can we do?
M. Mamas (Stockport, GB) 551

08:30 - 10:00

SYMPOSIUM Kosovel Hall

**Cardiac rehabilitation for LVAD patients**
Chairpersons: N. Reiss (Bad Rothenfelde, DE); S. Adamopoulos (Athens, GR)
LVAD is a new option to treat end stage heart failure. These patients have a reduced muscle mass, their circulation is not natural. Therefore rehabilitation professionals should be aware of exercise testing parameters, exercise intensity and limitations of exercise capacity.

08:30 Quality standards for cardiac rehabilitation in LVAD patients.
E. Langheim (Teltow, DE) 552

08:52 Daily activity in LVAD patients - Is there a correlation to exercise testing parameters.
M. Granegger (Zurich, CH) 553

09:15 How to increase physical capacity in LVAD patients.
M. Holme Jung (Copenhagen, DK) 554

09:37 Complications and trouble shooting in LVAD patients - What you need to know.
U. Corra (Veruno, IT) 555

08:30 - 10:00

SYMPOSIUM Stih Hall

**Advanced imaging in athlete’s heart**
Chairpersons: R. Stein (Porto Alegre, BR); To be announced
To learn how newer imaging technologies may be used for the evaluation and prognostic stratification of athletes.

08:30 Speckle tracking echocardiography for assessing right and left ventricular function.
D. L. Oxborough (Liverpool, GB) 556

08:52 Characterization of bialtrial size and function and implications for supraventricular arrhythmias.
F. D’Ascenzi (Siena, IT) 557

09:15 Exercise echocardiography: indications and interpretation of findings.
G. Claessen (Leuven, BE) 558

09:37 Exercise cardiac magnetic resonance: new insights into the assessment of right ventricular function.
A. La Gerche (Melbourne, AU) 559
### SATURDAY, 21 APRIL 2018
### Morning Sessions

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<td>08:30 - 10:00</td>
<td><strong>SYMPOSIUM</strong> E3</td>
<td><strong>Risk estimation: Time to rethink?</strong>&lt;br&gt;Chairpersons: B. Jug (Ljubljana, SI); E. Prescott (Copenhagen, DK)&lt;br&gt;08:30 Improving risk prediction beyond global risk assessment: Biomarkers and subclinical atherosclerosis&lt;br&gt;  N. D. Wong (Irvine, US)&lt;br&gt;08:52 Mendelian randomization: the future of precision risk estimation?&lt;br&gt;  B. A. Ference (Plymouth, US)&lt;br&gt;09:15 CV Risk Factors and Population Risk in Slovenia.&lt;br&gt;  Z. Fras (Ljubljana, SI)&lt;br&gt;09:37 Pulling it all together.&lt;br&gt;  I. M. Graham (Wicklow, IE)</td>
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<tr>
<td>10:00 - 11:00</td>
<td><strong>MODERATED POSTERS</strong></td>
<td><strong>Moderated Poster Session V</strong>&lt;br&gt;Chairpersons: P. E. Adami (Rome, IT); M. Tiberi (Pesaro, IT)&lt;br&gt;Posters are on display in the exhibition area from 08:30 until 12:30.&lt;br&gt;During the session (10:00 - 11:00), each poster presenter will have 5 minutes to briefly summarise their poster to the moderators in front of a dedicated audience. A question and answer period of 2 minutes follows each presentation.&lt;br&gt;Myocardial late gadolinium enhancement: prevalence and pattern in highly trained endurance athletes.&lt;br&gt;  M. Sanz-De La Garza, B. Domenech Ximenos, A. Sepulveda, F. Crispi, R.-J. Perea, S. Prat, M. Sitges (Barcelona and Girona, ES)&lt;br&gt;Increased respiratory muscle strength contributes to improvement of exercise tolerance following cardiac rehabilitation in patients with chronic heart failure.&lt;br&gt;  N. Hamazaki, T. Masuda, K. Kamiyi, R. Matsuzawa, K. Nozaki, S. Tanaka, T. Ichikawa, M. Tabata, E. Maekawa, C. Noda, M. Yamaoka-Tojo, J. Ako (Sagamihara and Toyohashi, JP)&lt;br&gt;Promoting physical activity in nurses: a self-determination theory approach.&lt;br&gt;  K.M. Zhang, H. Tulloch, A. Pipe, R.D. Reid, S.A. Prince, J.L. Reed (Ottawa, CA)&lt;br&gt;Water vs. land-based exercise training in patients with coronary artery disease: a randomised controlled trial.&lt;br&gt;  D. Vasic, M. Novakovic, B. Barbic Zagar, B. Jug (Šmarješke Toplice, Ljubljana and Novo mesto, SI)&lt;br&gt;Association of activity behaviours and patterns with cardiovascular risk factors in Swiss middle-aged adults; The CoLaus study.&lt;br&gt;  C. Gubelmann, P. Antiochos, P. Vollenweider, P. Marques-Vidal (Lausanne, CH)&lt;br&gt;The effect of lifelong high endurance athletes on Aortic root dimensions and relationship with blood pressure response during exercise.&lt;br&gt;  B. Ibrahim, S. Papaiothodorou, A. Merghani, G. Finocchiaro, M. Papadakis, A. Malhotra, M. Tome, G. Parry-Williams, J. Basu, L. Leung, H. MacLachlan, C. Miles, S. Sharma (London, GB)&lt;br&gt;Pulmonary transit of agitated saline during maximal exercise is associated with enhanced right atrial function in endurance athletes.&lt;br&gt;  A. Vaquer Segui, M. Sanz-De La Garza, I. Blanco, F. Burgos, X. Alsina, G. Graziol, S. Prat Gonzalez, B. Bjijens, M. Sitges (Barcelona, ES)&lt;br&gt;Improved assessment of physical activity using accelerometer data: the AC4MAX counts.&lt;br&gt;  D. Arvidsson, J.C. Brond, L.B. Andersen, O. Ekblom, G. Bergstrom, M. Borjesson (Gothenburg and Stockholm, SE; Sogndal, NO)&lt;br&gt;Epidemiology of hypertension in northern tanzania: a community-based mixed-methods study.&lt;br&gt;  S. Galson, C.A. Staton, F. Karera, J. Lunyera, J.W. Stanifer (Durham, US; Moshi, TZ)&lt;br&gt;Cardiac effects of enforced complete detraining assessed by cardiovascular magnetic resonance.&lt;br&gt;  P.P. Swoboda, P. Garg, J.R. Foley, G.J. Fent, P.G. Chew, L.A. Brown, C.E. Saunderson, E. Dall’armellina, J.P. Greenwood, S. Plein (Leeds, GB)</td>
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## Auditing risk factors: not just CHD

Chairpersons: I. M. Graham (Wicklow, IE); E. Greco (Fuscaldo (Cs), IT)

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<th>Time</th>
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<th>Speaker</th>
<th>Location</th>
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<tbody>
<tr>
<td>11:00</td>
<td>SURF CHD.</td>
<td>I. Vaartjes (Utrecht, NL)</td>
<td>Linhart Hall</td>
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<tr>
<td>11:15</td>
<td>SURF Stroke.</td>
<td>P. Claffey (Dublin, IE)</td>
<td>Linhart Hall</td>
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<tr>
<td>11:30</td>
<td>SURF Chronic obstructive pulmonary disease.</td>
<td>A. Dudina (Dublin, IE)</td>
<td>Linhart Hall</td>
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<tr>
<td>11:45</td>
<td>SURF Rheumatoid arthritis.</td>
<td>A. G. Semb (Oslo, NO)</td>
<td>Linhart Hall</td>
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## Atrial fibrillation: a novel target in cardiac rehabilitation?

Chairpersons: T. Karlsen (Bodo, NO); H. M. C. Kemps (Den Bosch, NL)

In recent years, there has been an increasing interest in cardiac rehabilitation as an upstream therapy in atrial fibrillation. In the 2016 ESC guidelines on atrial fibrillation, structured support for lifestyle changes including interventions aiming at weight loss and improving exercise capacity are recommended. In this session, the physiological mechanisms underlying the potential benefit of cardiac rehabilitation, as well as results from recent clinical trials will be discussed.

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<th>Time</th>
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<th>Location</th>
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<tr>
<td>11:00</td>
<td>Exercise and atrial fibrillation: a complex relation.</td>
<td>E. Guasch (Barcelona, ES)</td>
<td>Kosovel Hall</td>
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<tr>
<td>11:15</td>
<td>Overweight and atrial fibrillation.</td>
<td>P. S. Sanders (Adelaide, AU)</td>
<td>Kosovel Hall</td>
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<td>11:30</td>
<td>High intensity interval training in patients with atrial fibrillation.</td>
<td>J. Loennechen (Melhus, NO)</td>
<td>Kosovel Hall</td>
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<tr>
<td>11:45</td>
<td>Cardiac rehabilitation in patients treated with catheter ablation: results from the CopenHeartRFA trial.</td>
<td>S. S. Risom (Copenhagen S, DK)</td>
<td>Kosovel Hall</td>
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## Controversies in cardiomyopathy management in athletes

Chairpersons: L. Serratosa Fernandez (San Lorenzo De El Escorial, ES); C. Schmied (Zurich, CH)

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<th>Time</th>
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<tr>
<td>11:00</td>
<td>Apical HCM and mild phenotype HCM in athletes: common and benign? Let them play?</td>
<td>M. Papadakis (London, GB)</td>
<td>Stih Hall</td>
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<td>11:20</td>
<td>Hypertrabeculation in athletes - ignore and move on?</td>
<td>S. Gati (London, GB)</td>
<td>Stih Hall</td>
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<tr>
<td>11:40</td>
<td>T-wave inversion on ECG but normal echo. What next?</td>
<td>F. Schnell (Rennes, FR)</td>
<td>Stih Hall</td>
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SATURDAY, 21 APRIL 2018
Morning Sessions

11:00 - 12:00

**HOW-TO SESSION E3**

**How can I get my research published and recognised?**
The European Journal of Preventive Cardiology (EJPC) meets young community
Chairpersons: S. Castelletti (Milan, IT); S. Sans Menendez (Barcelona, ES)

11:00  Introduction.
      M. F. Piepoli (Piacenza, IT)

11:05  Which area of research are most likely to get the interest of the reader in the area of Epidemiology.
      P. Marques Vidal (Lausanne, CH)

11:20  In the area of prevention.
      To be announced

11:35  In the area of Exercise physiology and cardiac rehabilitation.
      L. E. M. Vanhees (Leuven, BE)

11:50  Round Table: tips and tricks
      M. F. Piepoli (Piacenza, IT); P. Marques Vidal (Lausanne, CH); L. E. M. Vanhees (Leuven, BE)

12:15 - 13:00

**SPECIAL EVENT Kosovel Hall**

Closing session
Chairpersons: D.E. Grobbee (Utrecht, NL); J.P. Schmid (Barmelweid, CH)

12:15  Welcome address.
      D.E. Grobbee (Utrecht, NL)

12:16  Young Investigator Awards.
      J.P. Schmid (Barmelweid, CH)

12:20  Moderated Poster Awards.
      J.P. Schmid (Barmelweid, CH)

12:25  Pantaleo Giannuzzi Award.
      M. F. Piepoli (Piacenza, IT)

12:29  Viviane Conraads outstanding Achievement Award.
      D.E. Grobbee (Utrecht, NL)

12:30  2018 Viviane Conraads Outstanding Achievement Award.
      T. Moholdt (Trondheim, NO)

      J.P. Schmid (Barmelweid, CH)

12:55  Closing.
      D.E. Grobbee (Utrecht, NL)
SATURDAY, 21 APRIL 2018
Poster Sessions

**HEART FAILURE**

- Heart failure - Poster discussant: to be announced
  - M. Mamas (Stockport, GB)
  - Predictors factors for survival and event free survival in long-term follow-up after percutaneous mitral valvuloplasty with Inoue versus single balloon technique.
  - The re-hospitalisation rates among patients with preserved, mid-range and reduced ejection fraction: databased analysis
  - Echocardiographic score influence, survival and event free survival in longterm follow-up of percutaneous mitral balloon valvuloplasty
  - Predictors of congestive heart failure in patients on maintenance hemodialysis
    - S. Ito, S. Murai (Toyota and Nishio, JP)
  - Prevention of morbimortality in octogenary patients with heart failure admitted to cardiology hospitalization
  - Physical training efficiency in heart failure patients
    - V.L. Galenko, T.A. Lelyavina, M.Y. Sitnikova (SaintPetersburg, RU)
  - Influence of type 2 diabetes on the immunity indexes in patients with ischemic heart disease
    - O. Y. Buchko (Lviv, UA)
  - The quality of life in the patients with chronic heart failure and arterial hypertension in depending of iron metabolism

**CORONARY ARTERY DISEASE, ACUTE CORONARY SYNDROMES, ACUTE CARDIAC CARE**

- Coronary artery disease, acute coronary syndromes, acute cardiac care - Poster discussant: to be announced
  - Detection of contrast-induced nephropathy in patients undergoing coronary angiography with Neutrophil Gelatinase Associated Lipocalin (NGAL)
  - Features of lipid metabolism in women with non st elevation acute coronary syndrome depending on the hormonal status
    - V. Protsko (Lviv, UA)
Effects of early statin treatment on acute heart failure and cardiovascular events after st-elevation myocardial infarction
S. Kozhukhov, A. Parkhomenko, A. Shumakov, N. Dovganych (Kiev, UA)

Assessment of gdf-15 in patients with acute myocardial infarction on the background with acute heart failure
E.V. Khorolets, S.V. Shlyk, L.A. Khaishaeva (Rostov-on-Don, RU)

Relation between obesity and severity of coronary artery disease in patients referred for coronary angiography

Anxiety and depression can really be risky for cardiac syndrome X? : the determination of risk levels with the hospital anxiety and depression scale
E.I. Cekirdekci, B. Bugan, U. Coskun (Kyrenia, Mersin, TR)

Primary percutaneous transluminal coronary angioplasty in diabetic patients with acute myocardial infarction

Changes in cardiovascular surgery from a religious concept

The impact of therapeutic compliance on the period of development of stent thrombosis after percutaneous coronary intervention
J. A. Mansurova, L.K. Karazhanova (Semey, KZ)

Influence of invasive and therapeutic procedures on a signal averaged ECG in patients with arterial hypertension and coronary artery disease
V.A. Kuznetsov, L.G. Evlampieva, E.I. Yaroslavskaya, E.A. Gorbatenko (Tyumen, RU)

Influence of sympathovagal balance on electrical instability in patients with myocardial infarction with ST segment elevation
E.V. Khorolets, L.A. Khaishaeva, S.V. Shlyk (RostovonDon, RU)

Valvular, myocardial, pericardial, pulmonary, congenital heart disease
Valvular, myocardial, pericardial, pulmonary, congenital heart disease - Poster discussant:
G. E. Pieles (Bristol, GB)

Local rigidity of common carotid arteries in patients with coronary artery atherosclerosis
L. Salyamova, A. Khromova, I. Matrosova, V. Oleinikov (Penza, RU)

Huge increase in the risk profile of patients admitted with moderate-to-severe degenerative aortic valve stenosis during last decade

Long-term follow-up of percutaneous mitral valvuloplasty with single balloon technique. Survival and event-free survival

Myocardial revascularization surgery and percutaneous approach to left coronary artery tron injury
SATURDAY, 21 APRIL 2018
Poster Sessions

**HYPERTENSION**

Hypertension - Poster discussant: E. Greco (Fuscaldo (Cs), IT)

- **P619**
  24-hour central blood pressure profile in type 1 diabetics

- **P620**
  Correlations between inflammatory mediators and arterial stiffness in hypertensive patients.

- **P621**
  The effectiveness of an educational intervention for sodium restriction in patients with hypertension through estimated 24-hours urinary sodium excretion using a casual urine specimen

- **P622**
  Y. Kajikawa, M. Ikeda, A. Ueda, M. Hirota (Fukuyma, JP)
  Correlation between psychological state indices and left ventricular mass index in hypertensive patients

- **P623**
  M. Evsevyeva, M. Eremin, V. Koshel, V. Baturin, E. Italiyanseva (Stavropol, RU)
  Study on the level of informations of patients with arterial hypertension in sumy city

- **P624**
  N. Demikhova, V. Smianov, O. Smianova, O. Demikhov (Sumy, UA)
  Arterial hypertension treatment compliance of men engaged in monthly round-trip sojourns to the Arctic

- **P625**
  N. Shurkevich, A.S. Vetoshkin, L.I. Gapon, D.G. Gubin (Tyumen, RU)
  Prevalence of high blood pressure in surgical patients

- **P626**
  A. M. Garrido Castro, P. Losada Mora, J.L. Carrillo Linares (Malaga, ES)
  Hemodynamic variants of arterial hypertension/prehypertension in young people based on assessment of the aortic pressure

- **P627**
  G. F. Andreeva, A. Deev, V. Gorbunov, E. Platonova (Moscow, RU)
  Co-relation between psychological state and left ventricular mass index in hypertensive patients

- **P628**
  G. Andreeva (Moscow, RU)
  Correlation between psychological state and left ventricular mass index in hypertensive patients

- **P629**
  M. Derevjanchenko, M.E. Statsenko (Volograd, RU)
  The effectiveness of an educational intervention for sodium restriction in patients with hypertension through estimated 24-hours urinary sodium excretion using a casual urine specimen

- **P630**
  Y. Kajikawa, M. Ikeda, A. Ueda, M. Hirota (Fukuyma, JP)
  Correlation between psychological state indices and left ventricular mass index in hypertensive patients

- **P631**
  G. F. Andreeva, A. Deev, V. Gorbunov, E. Platonova (Moscow, RU)
  Co-relation between psychological state and left ventricular mass index in hypertensive patients

- **P632**
  G. Andreeva (Moscow, RU)
  Correlation between psychological state and left ventricular mass index in hypertensive patients

- **P633**
  M. Derevjanchenko, M.E. Statsenko (Volograd, RU)
  The effectiveness of an educational intervention for sodium restriction in patients with hypertension through estimated 24-hours urinary sodium excretion using a casual urine specimen

- **P634**
  Y. Kajikawa, M. Ikeda, A. Ueda, M. Hirota (Fukuyma, JP)
  Correlation between psychological state indices and left ventricular mass index in hypertensive patients

- **P635**
  G. F. Andreeva, A. Deev, V. Gorbunov, E. Platonova (Moscow, RU)
  Co-relation between psychological state and left ventricular mass index in hypertensive patients

- **P636**
  G. Andreeva (Moscow, RU)
  Correlation between psychological state and left ventricular mass index in hypertensive patients

- **P637**
  M. Derevjanchenko, M.E. Statsenko (Volograd, RU)
  The effectiveness of an educational intervention for sodium restriction in patients with hypertension through estimated 24-hours urinary sodium excretion using a casual urine specimen

**RISK FACTORS AND PREVENTION – EPIDEMIOLOGY**

Risk Factors and Prevention – Epidemiology - Poster discussant: I. M. Graham (Wicklow, IE)

- **P629**
  Prevalence of ideal cardiovascular health in a central European community: results from Kardiovize Brno 2030

- **P630**
  Related variables in the screening for prevalence of prehypertension in young adults students at technical school

- **P631**
  Clinical and demographic characteristics of patients with familial hypercholesterolaemia in Bulgaria: results from a retrospective observational study

- **P632**
  A. Postadzhiyan, I. Petrov, M. Tokmakova, L. Kitova, S. Tsonve, J. Addison, V. Lachev (Sofia and Plovdiv, BG; Cambridge, GB)
  Detection and potential risk of early repolarization syndrome (ERS) in multi-ethnical population of Georgia

- **P633**
  K.R. Chagunava, G.V. Lomtatidze (Tbilisi, GE)
  Women self-knowledge screening for cardiovascular risk factors in different age and labor activies populations

- **P634**
  Multiple risk scenario of coronary artery disease between rural and urban population in india

- **P635**
  Sudden and non-sudden cardiac death among patients after myocardial infarction (from 90th till present time)

- **P636**
  I. A. Leonova, E. Bykova, S. Boldueva (St-Petersburg, RU)
  Characteristics of modern drug therapy of atrial fibrillation in Russian population sample

- **P637**
  M. Shapkina, S. Malyutina, A. Ryabikov, E. Mazdorova, E. Avdeeva, M. Bobak, J.A. Hubacek, Y.U. Nikitlin (Novosibirsk, RU; London, GB; Prague, CZ)
Association of coronary artery disease prevalence with objective and subjective health indices in the open population

E.V. Akimova, M.M. Kayumova, V.V. Gafarov, V.A. Kuznetsov (Tyumen and Novosibirsk, RU)

Survey of risk factors for cardiovascular diseases in women in brown municipality


Doctors and medical students: when healthy lifestyle is be formed?

M. Boyarinova, O. Rotar, A. Orlov, V. Solntsev, A. Tanicheva, A. Konradi, E. Shlyakhto (Saint-Petersburg, RU)

Fight against early heart disease what more we have to know?


RISK FACTORS AND PREVENTION – CARDIOVASCULAR RISK ASSESSMENT

Risk Factors and Prevention – Cardiovascular Risk Assessment - Poster discussant:

B. A. Ference (Plymouth, US)

Screening for cardiovascular risk factors and self awareness among female students in the first two years of medicine


Intermediate hyperglycemia factor of high risk of cardiovascular diseases

G.G. Petrik, E.D. Kosmacheva, S.A. Kartavenkov, A.V. Bratchik (Krasnodar, RU)

Do sex differences in risk levels for developing recurrent stroke? a five-year observation from one tertiary care hospital in Thailand

J. Suwanno, K. Angkun, K. Rajborirug, J. Suwanno (Hat Yai, Songkhla and Thasala, Nakhon Si Thammarat, TH)

Structural myocardial abnormalities as prognostic factor of sudden cardiac death among patients with myocardial infarction and ventricular arrhythmia

I. A. Leonova, S. Boldueva, E. Bykova (SIPetersburg, RU)

Coronary artery disease risk difference between little young and middle age group in India


Heart rate control in post PCI patients

M. Ali, M. Ahmed, A. Abdullah, T. Kiernan (Limerick, IE)

Associations of traditional cardiovascular risk factors with subclinical coronary atherosclerosis

N. Pogosova, I.E. Koltunov, N.P. Kachanova, Y.M. Yufereva, V.A. Vygodin (Moscow, RU)

Life style Intervention using mobile technology in patients with high cardiovascular risk: a pragmatic randomized clinical Trial (LIGHTT)

A.I. Tekkesin, G. Cinier, O. Yildirimturk, Y. Soluk Ozdemir (Istanbul, TR)

Screening of cardiovascular risk in bodyguard security team of state government. The obese and overweight group assessment


Risk for developing cardiovascular disease in hypertension with controlled and uncontrolled blood pressure: a result from three primary care units in Thailand

J. Suwanno, N. Koson (Thasala, Nakhon Si Thammarat, TH)

A predictive score for asymptomatic atheromatosis


Cardiovascular disease risk in post-stroke: do ischemic stroke women and men had differences type of risk factors?

K. Angkun, J.O.M. Suwanno, J.U.K. Suwanno, K. Rajborirug (Hat Yai, Songkhla and Thasala, Nakhon Si Thammarat, TH)
## SECONDARY PREVENTION

**Secondary Prevention - Poster discussant:**

**M.L. Lochen (Tromso, NO)**

- **P655**
  - High adherence to treatment as a promising method of effective prevention of post-operative cognitive dysfunction in patients after coronary artery bypass grafting
  - Y. Argunova, O.A. Trubnikova, E.S. Kagan, O.L. Barbarash (Kemerovo, RU)

- **P656**
  - Gender differences in change in cardiovascular disease risk profile after incident myocardial infarction.
  - The Tromso Study 1994-2016

- **P657**
  - S klotho, pro bnp, and exercise training in coronary artery disease patients
  - E. Radzishevsky, C.H. Sherve, L. Berdichanski, E. Goldhammer, U. Rosenschein, M.O. Saghiv (Haifa, IL; Bismarck, US)

## PREVENTIVE CARDIOLOGY

**Preventive cardiology - Poster discussant:**

**E. Guasch (Barcelona, ES)**

- **P669**
  - Gender dependent differences in relationship between echocardiographic epicardial adipose tissue thickness and angiographically detected coronary artery disease
  - I. Kologrivova, O. Koshelskaya, I. Vinnitskaya, A. Boshchenko (Tomsk, RU)

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**MAJOR Morbidity and Mortality Outcomes**

**Major Morbidity and Mortality Outcomes - Poster discussant:**

**E. Guasch (Barcelona, ES)**

- **P670**
  - Gender dependent differences in relationship between echocardiographic epicardial adipose tissue thickness and angiographically detected coronary artery disease
  - I. Kologrivova, O. Koshelskaya, I. Vinnitskaya, A. Boshchenko (Tomsk, RU)
Decreased FoxP3+ T-regulatory lymphocytes in moderately obese patients are associated with inflammatory changes in women but not in men

I. Kologrivova, O. Koshelskaya, T. Suslova, I. Vinnizkaya, O. Trubacheva, E. Kravchenko, A. Gusakova (Tomsk, RU)

Evaluation of cardio-respiratory efficiency in patients with obesity and cardiopatia isquemica


Aerobic exercise capacity in obesity with or without comorbidities

G. Deboeck, M. Lamotte, V. Faoro (Brussels, BE)

Total surface charge of erythrocyte membranes in patients with metabolic syndrome

M. Sapacheva, N.A. Druzhinina, M.V. Pisarev, T.V. Koroleva, V.I. Podzolkov (Moscow, RU)

Determination of nutritional habits and obesity status of university students

B. Bayrak, S. Oguz, E. Akyildiz, E.P. Karaoglu (ISTANBUL, TR)

V-FAT - A comparative study of correlation between visceral fat and CAD in patients presenting with ACS data from a developing country

A. Bahekar, V. George, C. Koshy, K. Jacob, S. Salih, A. Gautam, G. Benjamin, K. Venugopal (Thiruvalla, IN)

Leptin level is in hypertensive obese patients and its relation with metabolic and hemodynamic parameters

O. Molchanova, A. Britov, A. Deev (Moscow, RU)

Associations between PM2.5 and blood pressure, lipids, and glucose: an analysis from the Survey of Risk Factors (SURF) data among 10 countries

M. Zhao, G. Hoek, M. Strak, D.E. Grobbee, I. Graham, K. Klipstein-Grobusch, I. Vaartjes (Utrecht, NL; Dublin, IE)

Unusual seasonal variation in the occurrence of acute ST-elevation myocardial infarction and the effect on outcome

D. Sharif, T. Pi Eili, Y. Sharif, A. Sharif-Rasslan, U. Rosenschein (Haifa, IL)

Comparison of 10-year cardiovascular risk between white and blue-collar workers

A. Varela, A. Mesa, N. Athanasiadis, S. Chryssanthopoulos, C.H. Davos (Athens, GR)

Application and replicability of bilateral and simultaneous multiple arterial blood pressure measurements in sedentary and physically active professions

E. De Groot, E. Schrauwen, R. Straatman (Eindhoven, Amsterdam, Lunteren and IJmuiden, NL)

Impaired exercise capacity is associated with impaired cardiac and vascular function, and increased levels of disease-specific biomarkers in adults with repaired tetralogy of Fallot

M. Novakovic, K. Prokselj, Z. Fras, B. Jug (Ljubljana, SI)

Prognostic variables of cardiopulmonary exercise testing in heart failure with preserved and reduced ejection fraction: a cross-sectional study.


The dynamic of physical capacity and quality of life after heart transplantation

M. Simonenko, A. Berezina, P. Fedotov, Y. Sazonova, T. Pervunina, T. Lelyavina, M. Sitnikova, G. Nikolaev, M. Gordeev, M. Karpenko (Saint-Petersburg, RU)

Cardiorespiratory optimal point: a novel cardiopulmonary exercise testing parameter for prognosis in patients with ischaemic heart disease

T. Mendonca, A. Abreu, P. Rio, G. Portugal, S. Silva, R.M. Soares, R.C. Ferreira (Lisbon, PT)

Cardiopulmonary exercise test in patients with left ventricular non-compaction cardiomyopathy, a functional characterization of a cohort of ambulatory patients


Aberrant cardiopulmonary function during exercise testing and exercise intolerance in relation to cardiometabolic health in obese adolescents

The prognostic value of the six-minute walk test in patients with Chagas heart disease and preserved functional capacity
H. Costa, M.M.O. Lima, P.H.S. Figueiredo, K.K.P. Menezes, P.R. Avelino, M.C.P. Nunes, M.O.C. Rocha (Belo Horizonte and Diamantina, BR)

Respiratory muscle strength in Chagas heart disease patients
H. Costa, M.M.O. Lima, P.H.S. Figueiredo, K.K.P. Menezes, P.R. Avelino, M.C.P. Nunes, M.O.C. Rocha (Belo Horizonte and Diamantina, BR)

Relationship between exercise oscillatory ventilation loop and severity of heart failure

Early signs of stress induced arterial hypertension during cardiopulmonary testing and advantages in cardiac risk lowering
E. A. Kolesnikova, G.P. Arutyunov, A.K. Rylova (Moscow, RU)

STRESS, PSYCHO SOCIAL AND CULTURAL ASPECTS OF HEART DISEASE

Quality of life, anxiety and depression in patients after cardiac rehabilitation

Do higher education and higher income involve favorable cardiovascular risk factors profile in young adults?

Illness perception in patients with paroxysmal atrial fibrillation after catheter ablation
N. Pogosova, K.V. Davlyan, A.I. Telegina, Y.M. Yufereva (Moscow, RU)

Anxiety, depression and type D personality in patients with paroxysmal atrial fibrillation after catheter ablation
N. Pogosova, A.I. Telegina, Y.M. Yufereva, K.V. Davlyan (Moscow, RU)

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About the ESC

The European Association of Preventive Cardiology (EAPC) is a branch of the European Society of Cardiology (ESC). The ESC is a not-for-profit medical society led by volunteers.

Our mission is to reduce the burden of cardiovascular disease. Through our global network of 56 Member National Cardiac Societies and 43 Affiliated Cardiac Societies, we identify cardiovascular trends, address inequalities and share best practices to improve standards of care for patients.

The ESC counts 90,000 members from across the globe, including over 4,000 distinguished Fellows of the ESC.

We cover the full spectrum of cardiology through our 27 subspecialty communities, giving us a unique perspective on all areas of cardiovascular science.

- **What we do**
  
  We provide our members and the global cardiology community with the support and tools they need to deliver the best possible care. In addition to the publication of 12 scientific journals, a variety of textbooks and internationally respected ESC Clinical Practice Guidelines, we do this through five strategic focus areas:

  **CONGRESSES**
  
  - ESC Congress - the world’s largest cardiovascular meeting
  - Nine subspecialty congresses, including EuroPrevent

  **EDUCATION**
  
  - Online and face-to-face learning
  - Certification

  **RESEARCH**
  
  - Registries and data collection

  **ADVOCACY**
  
  - Fostering partnerships and providing expertise to shape policy

  **MEMBERSHIP**
  
  - Join the world’s largest community of healthcare professionals fighting heart disease

- **Ethical integrity**

  The ESC adheres to the Alliance for Biomedical Research in Europe Code of Conduct to ensure objectivity, transparency and integrity.
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