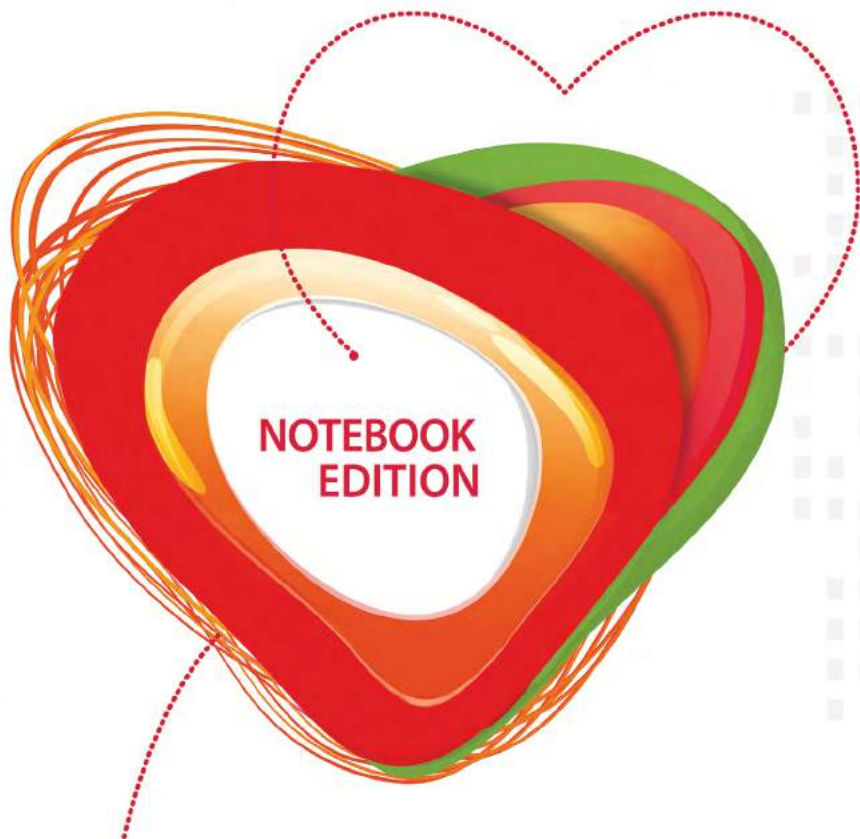


The European Association of Preventive Cardiology (EAPC) presents

2017 EuroPrevent

European Congress on Preventive Cardiology

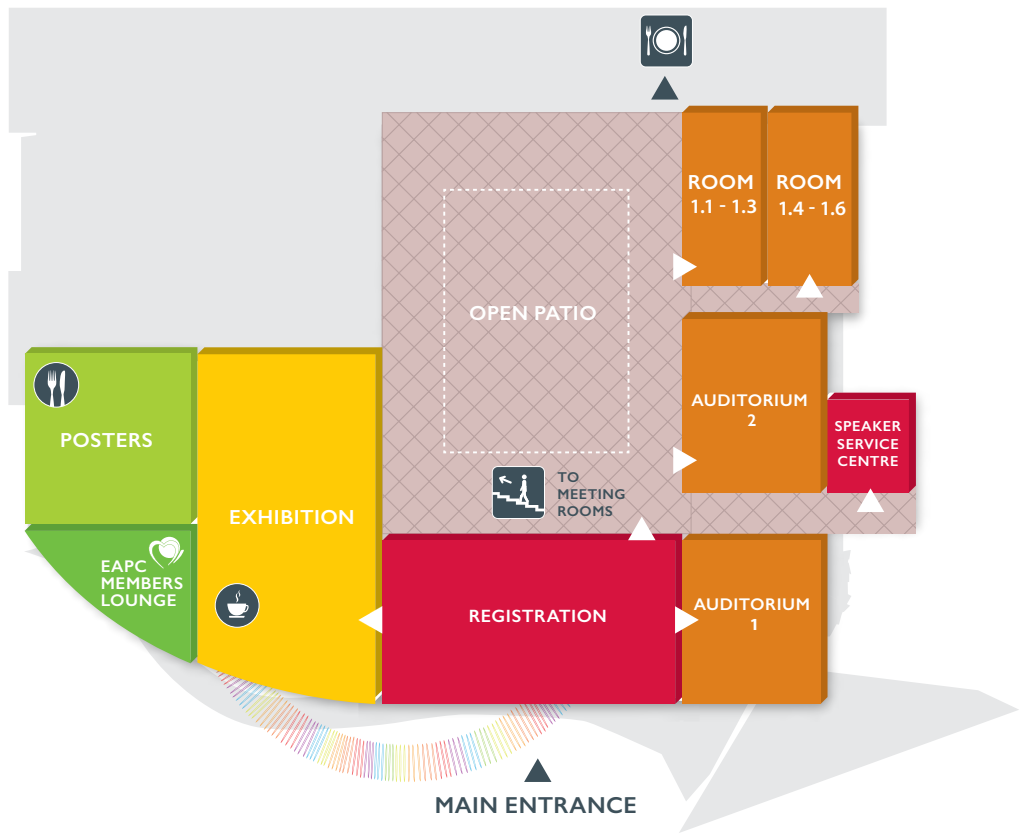


FINAL PROGRAMME

#europrevent
www.escardio.org/europrevent



Building Overview



Welcome Address

Dear Colleagues and Friends,

Welcome to EuroPrevent 2017!

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

Located between the mountains and the sea Malaga was founded in the 8th century BC by the Phoenicians making it one of the oldest cities in the world. As an historic and culturally rich provincial capital there are quirky museums, exhibits dedicated to glass and crystal, classic cars and art everywhere including, of course, the works of Picasso. The delightful pedestrianised historic centre boasts a skyline that reflects the city's eclectic character and is watched over by the 11th century Gibralfaro castle which provides the best view of the city.

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.

Innovation and research are essential components of medical practice which evolves daily as a result of this coming together of technology, knowledge and process. By focusing on 'Innovations in Preventive Cardiology' EuroPrevent 2017 aims to explore which novel ideas, opportunities, data or technologies could have an impact on society and what that impact could mean.

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 Ljubljana, Slovenia from the 19 to 21 April 2018.

Thank you for being with us; enjoy EuroPrevent and enjoy Malaga!



Diederick Grobbee
*European Association of Preventive
Cardiology (EAPC) President*

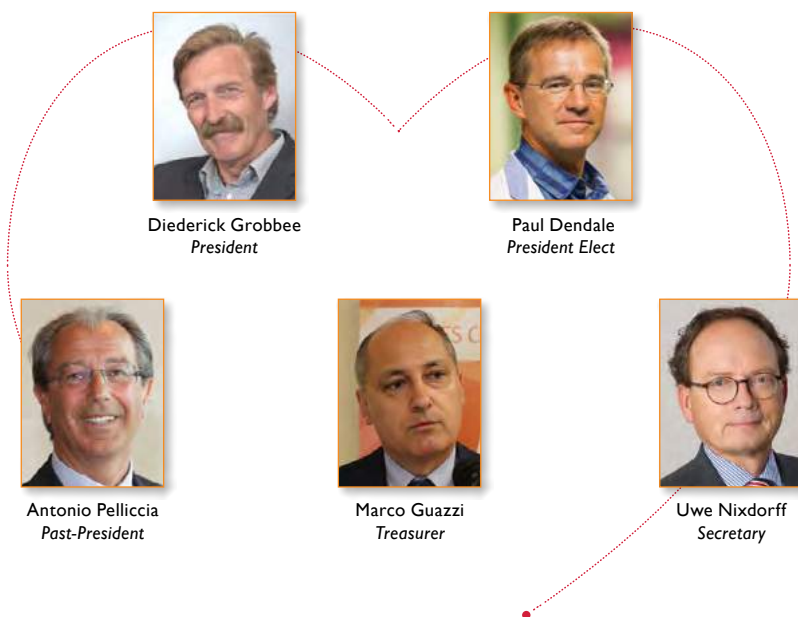


Jean-Paul Schmid
*Congress Programme Committee
Chairperson*



Andres Iñiguez Romo
*Spanish Society of Cardiology (SEC)
President*

2016-2018 EAPC Executive Board



EuroPrevent 2017 Congress Programme Committee

Jean-Paul Schmid, *Chairperson*

Members:

Heinz Völler Maja-Lisa Løchen
Paul Leeson Michael Papadakis

Local Organising Committee

Andres Iñiguez Romo, *Spanish Society of Cardiology President*

Eduardo de Teresa Galván, *Spanish Society of Cardiology and Spanish Heart Foundation Past-President*

Manuel Abeytua Jiménez, *ESC Working Group on Vascular Risk and Cardiac Rehabilitation President, Spanish Society of Cardiology*

Luis Rodríguez Padial, *Spanish Society of Cardiology Vice-President*

The European Association of Preventive Cardiology

A registered branch of the ESC



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 aim 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 A1 for more information on education, scientific resources and cardiovascular diseases prevention tools:

- Get a SCORE Risk Chart
- Get a free copy of the 2016 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
- Become an EAPC silver member onsite - 30% discount during the time of the congress!



KEY FACTS & FIGURES



6000+ Active members (in 2016)



70+ Volunteers in the Board, Sections, Committees and Task Forces



61 National Cardiovascular disease Prevention Coordinators in ESC member countries



25+ eLearning courses



4 Training courses per year

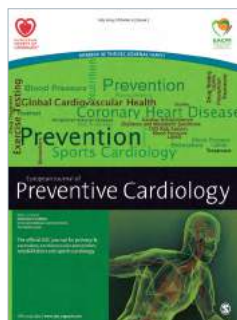


PUBLICATIONS

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 3.361 (2016).

Did you know? A complimentary online subscription to the EJPC journal is included in the registration fee!*

Discover and buy the *ESC Textbook of Preventive Cardiology* and the *ESC Handbook of Preventive Cardiology* at the ESC / EAPC Stand A1.





CONGRESS

EuroPrevent, our 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 6 April 19:15 in the exhibition

EAPC Sports Cardiology Section (open meeting)

Minded colleagues will present the section's work and plans.

Friday 7 April - 14:00-15:00 - Meeting room 2

Networking event for EAPC Ivory and Silver members

Friday 7 April - 15:30-16:30 - Members' Lounge

EAPC General Assembly: meet with the Board!

Saturday 8 April - 10:00-11:00 - Conference room 1.4-1.6

■ EAPC quizzes

The Exercise prescription (EXPERT flow chart) quiz

presented by Dominique Hansen

Thursday 6 April - 10:00-11:00 - Exhibition Hall

The Sports Cardiology (ECG) quiz

presented by Michael Papadakis

Thursday 6 April - 15:30-16:30 - Exhibition Hall

Cardiopulmonary Exercise Testing (CPX) quiz

presented by Matthias Wilhelm

Friday 7 April - 10:00-11:00 - Exhibition Hall

■ Young Investigator Award Sessions

Sport Cardiology

Thursday 6 April - 08:30-10:00 - Conference room 1.4-1.6

Exercise Basic & Translational Research (EBTR)

Thursday 6 April - 16:30-18:00 - Conference room 1.4-1.6

Prevention, Epidemiology & Population Science (PEP)

Friday 7 April - 08:30-10:00 - Conference room 1.4-1.6

Cardiac Rehabilitation

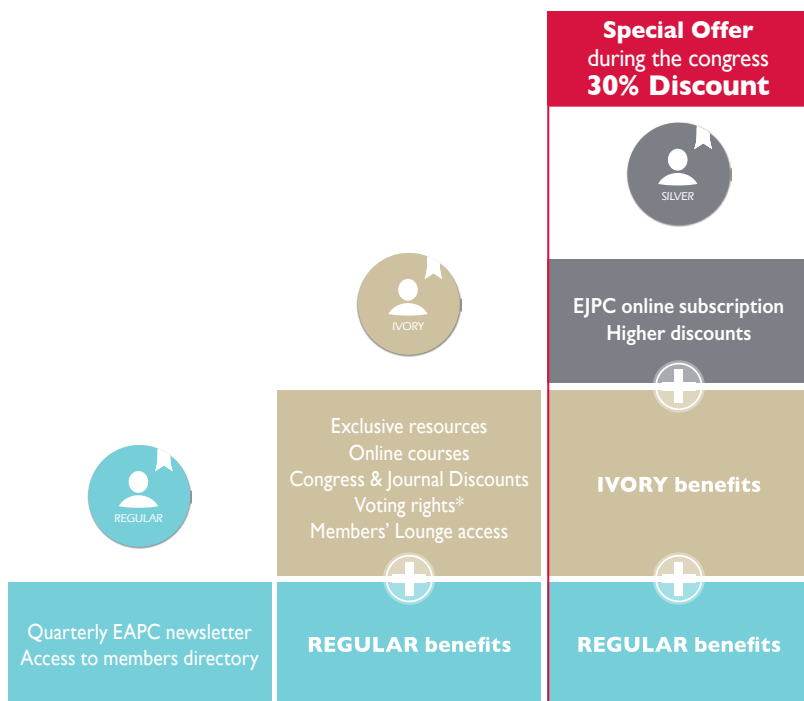
Friday 7 April -16:30-18:00 - Conference room 1.4-1.6

Meet with other EAPC Members

The EAPC Members'Lounge is an exclusive area that allows members to take a break, meet up with colleagues, check their emails or simply relax. The lounge is located next to the exhibition area and is reserved to EAPC Ivory & Silver Members.

JOIN THE EAPC COMMUNITY

Choose the **membership level** that best suits your needs



Visit the **EAPC stand (A1)** to learn more

*Voting rights are restricted to members from ESC countries



**I'M AN EAPC MEMBER.
WE ARE THE ESC**



General Information

Consult the Programme

- **Scientific Programme & Planner:** Available on www.escardio.org/europrevent
- **EuroPrevent 2017 Mobile App:** The most up to date programme and the fastest way to search sessions, speakers and topics. Search for “EuroPrevent 2017” in the App Store® or in Google play.

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 EuroPrevent 2017 Mobile App.

Congress News

Read about the scientific highlights of the day and other daily news in the free congress newspaper or in the electronic news delivered to your mailbox.

Practical



Certificates

Certificates of attendance – available from the registration desks from the afternoon of Friday 7 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.



Continuing Medical Education (CME) accreditation

EuroPrevent 2017 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

EuroPrevent 2017 is designated for a maximum of 15 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. 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 credit to AMA credit can be found at www.ama-assn.org/go/internationalcme

Live educational activities, occurring outside of Canada, recognized by the UEMS-EACCME for EACCME credits are deemed to be Accredited Group Learning Activities (Section I) as defined by the Maintenance of Certification Program of The Royal College of Physicians and Surgeons of Canada.



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 in the Exhibition Area.

Journal

Delegates registered at the full congress Standard fee or EAPC Member fees are entitled to a complimentary online subscription to the European Journal of Preventive Cardiology for 1 year (2018).

ESC Prevention of Cardiovascular Disease Programme: Focus on Secondary Prevention

Exclusively during EuroPrevent 2017

✚ **Masterclass - Secondary Prevention: unmet medical needs**

Thursday 6 April - Auditorium 2

14:00-15:30 Secondary Prevention: unmet medical needs - Part I

16:30-18:00 Secondary Prevention: unmet medical needs - Part II

✚ **Masterclass - The cardiovascular Polypill: background and practical implementation**

Friday 7 April - Auditorium 2

14:00-15:30 Cardiovascular risk and polypill

16:30-18:00 The cardiovascular polypill: practical implementation

Visit the EAPC stand (A1) to learn more about the programme
www.escardio.org/eapc

The ESC Prevention of Cardiovascular Disease Programme, is led by the European Association of Preventive Cardiology (EAPC) in collaboration with the Acute Cardiovascular Care Association (ACCA) and the ESC Council on Cardiovascular Nursing and Allied Professions (CCNAP) and is supported by AMGEN, AstraZeneca, Ferrer, Sanofi and Regeneron in the form of educational grants.



Exhibition

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

Thursday 6 April 08:30 – 18:00
Friday 7 April 08:30 – 18:00
Saturday 8 April 08:30 – 12:00

Exhibitors*

Atcor Medical	D2
Bittium	E2
Bold Technologies Leading España S.L.	C4
CamNtech Limited	E3
Cardiac Risk in the Young (CRY)	A2
Carocelle Cambridge Micelle Technology	C3
COSMED	B1
CPR Workshop & Challenge	D1
DSM	C1
European Association of Preventive Cardiology (EAPC) / European Society of Cardiology (ESC)	A1
EXPERT Tool	D3
Imedos Systems UG (haftungsbeschaenkt)	E4
Japanese Association of Cardiac Rehabilitation	E1
Ljubljana Tourism / Convention Bureau	G1
Oxford University Press	F2
SAGE Publishing	F1
SERVIER	C2
Toshiba Medical Systems Europe	B2
Wisepress Online Bookshop	F3

Satellite Symposia*

Delegates are cordially invited to attend a series of Satellite Symposia included in the EuroPrevent 2017 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.

- Carocelle Cambridge Micelle Technology
- Pfizer
- DSM
- SERVIER
- Imedos Systems UG (haftungsbeschaenkt)
- Toshiba Medical Systems Europe

Company and Product Descriptions

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

AtCor Medical

D2

Tel: +61 298 748 761

Email: contact.europe@atcormedical.com

Website: www.atcormedical.com

AtCor Medical, the global leader in non-invasive measurement of central blood pressure and arterial stiffness, is now providing the SphygmoCor® XCEL system, an easy-to-use cuff based system designed for use in large cohorts or in daily clinical routine. New: OSCAR2 with SphygmoCor Ambulatory Central Blood Pressure device.

Bittium

E2

Tel: +358 403 442 00

Email: medical@bittium.com

Website: www.bittium.com

Mega is now Bittium, a Finnish medical technology company specialized in biosignal monitoring for cardiology, neurology, rehabilitation, occupational health and sports medicine. Company has developed cutting-edge technology for cardiac applications such as holtering, cardiac telemetry and cardiac rehabilitation, as well as a high-end EEG solution for TMS-EEG and fMRI-EEG applications.

Bold Technologies Leading España S.L.

C4

Tel: +34 610 178 524

Email: stefan@btlnet.es

Website: www.btlnet.es

Founded in 1993, BTL has grown to become one of the world's major manufacturers of medical equipment. BTL's major segments include physical therapy, cardiology and medical aesthetics.

CamNtech Limited

E3

Tel: +44 148 083 1223

Email: admin@camntech.co.uk

Website: www.camntech.com

CamNtech has over 20 years' experience of providing scientifically validated wearable devices for small and large scale global studies. Record Heart Rate and HRV synchronized with Acceleration for accurate AEE in free-living. Our devices are manufactured to the highest standard in our ISO13485 certified facility near Cambridge in the UK.

Cardiac Risk in the Young (CRY)

A2

Tel: +44 173 736 3222

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.

Carocelle Cambridge Micelle Technology

C3

Tel: +44 01 223 651413

Email: contact@carocelle-technology.com

Website: www.carocelle-technology.com

Carocelle Cambridge Micelle Technology™ was founded in 2015 in collaboration with UK biotech firm Lycotec, headed by Dr. Ivan Petyaev. The company will present Delligent, a new generation of nutraceutical which combines oral and post-absorption liver-targeting delivery technologies for DHA and lycopene. This product not only reduces elevated triglycerides and cholesterol but also inhibits LDL oxidation and at a daily dose of 250mg of DHA and 7mg of lycopene.

COSMED

BI

Tel: +39 069 315 492

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 rehabilitation).

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 application.

CPR Workshop & Challenge

DI

Resuscitate your skills and challenge your colleagues!

This is a practical workshop for all to acquire, rehearse or update skills in CPR. Test yourself against other congress delegates by taking part in the challenge.

These workshops are possible thanks to the support of the Fundacion Mapfre and Zoll.

Company and Product Descriptions

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

DSM

CI

Tel: +41 618 158 888

Website: www.dsm.com

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. DSM and its associated companies deliver annual net sales of about €10 billion with approximately 25 000 employees. The company is listed on Euronext Amsterdam. More information can be found at www.dsm.com.

events during exercise testing. The EXPERT tool automatically provides (by algorithm) an exercise prescription according to the variables provided and may contribute in overcoming barriers in exercise prescription in common CVDs.

Imedos Systems UG (haftungsbeschaenkt) E4

Tel: +49 364 163 960

Email: info@imedos.de

Website: www.imedos.de

Imedos - the pioneer of retinal vessel analysis (RVA). The retina is a window to the heart and the brain. Static and dynamic retinal vessel structure and function is a diagnostic tool in humans and animals models, non-invasive and in vivo. RVA optimizes cardiovascular screening and therapy guidance in chronic vascular and metabolic disease. Extending applications far beyond ophthalmology - into the heart of preventive medicine.

European Association of Preventive Cardiology (EAPC) / AI

European Society of Cardiology (ESC)

Tel: +33 492 947 600

Website: www.escardio.org

The European Association Prevention Cardiology (EAPC) is a registered branch of the European Society of Cardiology (ESC), representing over 6 000 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.

Japanese Association of Cardiac Rehabilitation E1

Email: Tomomi-isd0217@hotmail.co.jp

Website: www.jacr.jp

The objectives of JACR 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.

EXPERT Tool D3

Email: dominique.hansen@uhasselt.be

Exercise rehabilitation is highly recommended by current guidelines on prevention of cardiovascular disease (CVD). However, many clinicians experience difficulties in prescribing exercise in the presence of different concomitant CVDs and risk factors within the same patient. Therefore, a digital training and decision support system for exercise prescription in CVD patients has been developed: the EAPC EXercise Prescription in Everyday practice & Rehabilitative Training (EXPERT) tool. This tool contains exercise training and safety advices for ten CVDs, five CVD risk factors (type 1 and 2 diabetes, obesity, hypertension, hypercholesterolemia), and three common chronic non-CV conditions (lung and renal failure and sarcopenia), but also accounted for baseline exercise tolerance, common CV medications and occurrence of adverse

Ljubljana Tourism / Convention Bureau G1

Website: www.visitljubljana.com

Discover the host city of EuroPrevent 2018

Oxford University Press F2

Emails: jnl.mkt@oup.com

medicine.books.uk@oup.com

Oxford University Press is proud to publish a selection of the ESC family of journals, as well as leading books and online products in cardiology. Visit us today for exclusive discounts on a range of cardiology books, and free sample journal copies.

SAGE Publishing F1

Tel: +44 020 732 485 00

Email: market@sagepub.co.uk

Website: www.sagepublishing.com

Sara Miller McCune founded SAGE Publishing in 1965 to support the dissemination of usable knowledge and educate a global community. SAGE publishes journals, books, and library products spanning a range of subject areas. SAGE remains majority-owned by our founder, who has ensured that the company will remain permanently independent.

Company and Product Descriptions

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

SERVIER

C2

Tel: +33 1 55 72 60 37

Email: sophie.nisse-durgeat@servier.com

Website: www.servier.com

Servier is an international pharmaceutical company governed by a foundation and headquartered in Suresnes (France). With a strong international presence in 148 countries and a turnover of 4 billion euros in 2016, Servier employs over 21 000 people worldwide. Corporate growth is driven by Servier's constant search for innovation in five areas of excellence: cardiovascular diseases, diabetes, cancers, immune-inflammatory diseases, and neurodegenerative diseases, as well as by its activities in high-quality generic drugs. Being completely independent, the Group reinvests 25% of Servier's products turnover in research and development and uses all its profits for growth.

A key player in cardiology and hypertension for the last 20 years, Servier has 12 major products on the market, totaling a turnover of more than 1.6 billion euro in 2016. Currently, there are 12 new fixed-dose combinations and 10 new molecular entities in research or development phase, mainly targeting heart failure. This portfolio of innovative treatments is being developed with partners worldwide.

Toshiba Medical Systems Europe

B2

Tel: +31 611 526 311

Email: jan.debruijn@toshiba-medical.eu

Website: www.toshiba-medical.eu

For over 140 years Toshiba's research and development has improved the health and welfare of people around the world. Today, Toshiba Medical Systems offers a full range of diagnostic imaging products and is a reliable service partner in more than 135 countries around the globe. Our Mission is to deliver the best quality products and services, as well as the industry's best after-sales support through long-term, customer focused partnerships.

Wisepress Online Bookshop

F3

Tel: +44 208 715

Email: louisemullen@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.





**SCIENTIFIC
PROGRAMME**

THURSDAY 6 APRIL

Morning Scientific Sessions

08:30 - 10:00

SYMPOSIUM

Auditorium 2

Exercise and Cardiovascular Health

Chairpersons: *De Teresa Galvan (Malaga, ES); A. Pelliccia (Rome, IT)*

08:30	Exercise and cardiovascular health: do any questions remain? <i>J. Myers (Palo Alto, US)</i>	1
08:52	Vascular Ageing: are you as old as your arteries? <i>D. Thijssen (Liverpool, GB)</i>	2
09:15	Recent developments in vascular ultrasound technology <i>P.Jankowski (Krakow, PL)</i>	3
09:37	Public strategies to implement exercise programs in the general population <i>I. M. Graham (Wicklow, IE)</i>	4

08:30 - 10:00

SYMPOSIUM

Auditorium 1

How to implement a safe, qualitative, medically and legally robust cardiac eHealth programme

Chairpersons: *H. Saner (Starrkirchwil, CH); M. J. Miller (East Grinstead, GB)*

In today's current healthcare environment, change is constant. Providers are trying to deliver high value care with good quality outcomes, as well as care that's safe and free from medical errors. When you add on to this new technology that's being introduced to the way we deliver healthcare (i.e. telemedicine), it is very difficult to become efficient and provide the care that we all strive to provide. To this end this symposium aims to provide attendees with the tools they need to successfully implement cardiac telemedical care in their practices.

08:30	eHealth implementation in the EU: where do we stand today? <i>M. J. Miller (East Grinstead, GB)</i>	5
08:52	How to assure successful implementation of telemedical care? <i>A. van der Velde (Rotterdam, NL)</i>	6
09:15	Do standards for TeleHealth services respond to healthcare systems needs? <i>C. E. Chronaki (Heraklion, GR)</i>	7
09:37	Data security, privacy and patient safety in the eHealth era. <i>C. Deswarte (Brussels, BE)</i>	8

08:30 - 10:00

CASE-BASED SYMPOSIUM

Conference room 1.1 - 1.3

Update on the athlete's ECG; International criteria 2017

Chairpersons: *F. Carre (Rennes Cedex, FR); E. E. Solberg (Oslo, NO)*

Elaborate on novel proposed criteria for the interpretation of the athlete's ECG and their differences compared to existing criteria. Distinguish ECG phenotypes indicative of physiological cardiovascular adaptations as a result of athletic activity (athlete's ECG) from those indicating possible underlying pathology.

Recognise the influence of sporting discipline and athlete's demographics on the athlete's ECG. Gain insight into the investigation of athletes with ECG anomalies.

08:30	ECG indices of athletic training; what is new on "the athlete's ECG". <i>S. Sharma (London, GB)</i>	9
08:48	ECG indices suggestive of pathology; what you shouldn't miss! <i>C. Schmied (Zurich, CH)</i>	10
09:06	Effect of ethnicity, age, gender and sporting discipline on the athlete's ECG. <i>M. Papadakis (London, GB)</i>	11
09:24	Comparison of 3 electrocardiographic criteria for the detection of cardiac abnormalities in southeast asian athletes <i>B.Y. Lim, B.Y. Lim, H. Fadzil, A.T. Lim, C.S. Ng, J.W. Kam, K. Wong, B. Tan, K.L. Tong (Singapore, SG)</i>	12
09:40	Sports cardiology ECG Quiz: The Master of Sports Cardiology <i>A. D'Silva (London, GB)</i>	13

THURSDAY 6 APRIL

Morning Scientific Sessions

08:30 - 10:00

YOUNG INVESTIGATORS AWARD

Conference
room I.4 - I.6

Young investigator award session I - Exercise Basic & Translational Research (EBTR)

Chairpersons: P. Leeson (Oxford, GB); T. Karlsen (Bodo, NO)

Judges: K. Savonen (Kuopio, FI); E. Van Craenenbroeck (Edegem, BE); To be announced

Six abstracts have been 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.

- | | | |
|-------|---|----|
| 08:30 | Internet-based combined exercise training in the management of Type 2 Diabetes
<i>B. Akinci, I. Yeldan, I. Satman (Istanbul and Istanbul, TR)</i> | 14 |
| 08:45 | Heart rate kinetics during standard cardiopulmonary exercise testing in heart transplant recipients: a cross-sectional and longitudinal observational single centre study
<i>O. Schumacher, D. Herzig, L. Trachsel, P. Mohacsi, P. Eser, M. Wilhelm (Bern, CH)</i> | 15 |
| 09:00 | Evaluation of a novel method to assess blood volume changes in skeletal muscle during exercise: power doppler ultrasound
<i>T. Schoots, H.M. Heres, F.N. Van De Vosse, R.G.P. Lopata, H.M.C. Kemps (Veldhoven and Eindhoven, NL)</i> | 16 |
| 09:15 | Resistance training decreases PCSK9 levels in patients who undergo phase II cardiac rehabilitation after coronary artery bypass grafting: a randomized study
<i>B. ~ Dwiputra, A. Santoso, B.S. Purwowiyoto, B. Radi, A.M. Ambari (Jakarta, ID)</i> | 17 |
| 09:30 | The dynamic of physical capacity in heart transplanted patients
<i>M. Simonenko, A. Berezina, Y. Sazonova, P. Fedotov, T. Lelyavina, T. Pervunina, M. Sitnikova, G. Nikolaev, M. Gordeev, M. Karpenko (Saint-Petersburg, RU)</i> | 18 |
| 09:45 | Prevalence and influence of obesity and hypertension on arterial stiffness in Swiss primary school children: the ExAMIN Youth Study
<i>S. Koechli, K. Endes, M. Nussbaumer, L. Zahner, A. Schmidt-Trucksass, H. Hanssen (Basel, CH)</i> | 19 |

10:00 - 11:00

MODERATED POSTERS

Moderated Poster Area

Moderated Poster Session I - Diabetes/ Lipids/Obesity

Chairpersons: J. Gill (Glasgow, GB); J. Niebauer (Salzburg, AT)

Posters are on display in the poster area from 08:30 until 18:00.

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.

- | | | |
|---|---|----|
| Effectiveness of a lifestyle intervention on left ventricular cardiac function in childhood obesity | <i>C.~ Bjork Ingul, K. Dias, A.E. Tjonna, T. Follestad, M. Hosseini, A. Timilsina, S.M. Hollekim Strand, P. Cain, G.M. Leong, J. Coombes (Trondheim, NO; Brisbane, AU)</i> | 20 |
| Angina, pre-diabetes, and diabetes related quality of life, physical functioning and healthcare costs: the Cardiovascular Health Study | <i>N. D. Wong, E. Schein, J.A. Delaney, A.J. Magyar, C.H. Hirsch, J.M. Gardin (Irvine, Seattle, Sacramento and Hackensack, US)</i> | 21 |
| Decades of obesity even without comorbidities in asymptomatic subjects is associated with significant cardiovascular structural and functional abnormalities | <i>M. El Shahawy, A.S. Byju (Sarasota, US)</i> | 22 |
| Can exercise improve reduced right ventricle function in obese children? | <i>C. Bjork Ingul, K. Dias, A.E. Tjonna, T. Follestad, M. Hosseini, A. Timilsina, S.M. Hollekim Strand, P.S.W. Davies, G.M. Leong, J. Coombes (Trondheim, NO; Brisbane, AU)</i> | 23 |
| Circulating endothelial-derived and mononuclear progenitor cells in patients with metabolic syndrome and diabetes mellitus | <i>A. Berezina, A. Kremzer, T. Berezina, A. Zulli, P. Kruzliak, L. Gaspar, I. Mozes (Zaporozhye, UA; Melbourne, AU; Brno, CZ; Bratislava, SK; Timisoara, RO)</i> | 24 |
| Obesity and increased premature death from circulatory disease: a comparison of populations from the United States and Sweden | <i>M.~ Scribani, M. Norberg, K. Lindvall, L. Weinehall, J. Sorensen, P. Jenkins (Umea, SE; Cooperstown, New York, US)</i> | 25 |
| Lipid profile alterations and its relation with waist-to-height ratio in children population | <i>C.L. Dominguez Urrego, S.K. Romero Rondon, E.M. Gamboa Delgado, D.C. Quintero Lesmes (Floridablanca and Bucaramanga, CO)</i> | 26 |
| Positive and negative predictors of LDLC goals achievement in patients at moderate to very high cardiovascular risk on lipid-lowering drug therapy (CEPHEUS II) | <i>Y.U. Khomitskaya, N.A. Logunova, S.A. Boytsov (Moscow, RU)</i> | 27 |

THURSDAY 6 APRIL

Morning Scientific Sessions

11:00 - 12:30

SPECIAL SESSION

Auditorium 2

State-of-the-art exercise prescription in cardiovascular rehabilitation: innovative approaches

Chairpersons: A. Abreu (Lisbon, PT); De Teresa Galvan (Malaga, ES)

11:00	Exercise prescription in cardiac rehabilitation: basic principles and practical aspects. <i>P. J. M. Beckers (Edegem, BE)</i>	28
11:22	Exercise in the elderly with sarcopenia: how to assess and how to prescribe. <i>C. Vigorito (Naples, IT)</i>	29
11:45	Exercise prescription in heart failure: moderate or high intensity? New evidence. <i>M. Halle (Munich, DE)</i>	30
12:07	Exercise prescription in patients with multiple cardiovascular diseases and risk factors: bringing it all together in the EXPERT tool. <i>D.R.M.J. Hansen (Hasselt, BE)</i>	31

11:00 - 12:30

SYMPOSIUM

Auditorium 1

The role of Apps and other e-Health tools for health assessment and improvement

Chairpersons: C. Graf (Cologne, DE); M. Tiberi (Pesaro, IT)

Know the benefits and harms of eHealth from different perspectives

11:00	The "mobile doctor": how to find the right app? <i>S. S. Busnatu (Bucharest, RO)</i>	32
11:22	The "smart ECG": new ways in data assessment. <i>G. F. Gensini (Florence, IT)</i>	33
11:45	eHealth: need for gender specific eHealth tools? <i>J. E. Roeters Van Lennep (Rotterdam, NL)</i>	34
12:07	Can mobile apps help prevent CVD across the lifecourse. <i>L. Neubeck (Edinburgh, GB)</i>	35

11:00 - 12:30

CASE-BASED SYMPOSIUM

Conference room I.1 - I.3

Investigating and managing challenging cases in sports cardiology

Chairpersons: A. Biffi (Rome, IT); A. Pressler (Muenchen, DE)

The session will provide an outline of the investigation and management of athletes with challenging cardiovascular symptoms and conditions, which are frequently encountered in the practice of Sports Cardiology. The case-based lectures will allow participants to gain an appreciation of the differential diagnosis and a practical approach to the investigation and management of athletes presenting with ventricular ectopy and bradycardia as well as symptomatic and asymptomatic athletes with coronary artery anomalies. The session will also explore the challenges of exercising with a pacemaker and exercise recommendations for participation in competitive sport in this group.

11:00	Evaluation and management of coronary artery anomalies. <i>P. E. Adami (Rome, IT)</i>	36
11:18	Management of athletes with complex ventricular arrhythmias. <i>A. La Gerche (Melbourne, AU)</i>	37
11:36	Management of athletes with bradycardia; When does slow get too slow? <i>H. Raju (London, GB)</i>	38
11:54	Continuing competitive sport in athletes with ventricular arrhythmias: a late-midterm follow up study <i>E. Tranchita, C. Minganti, P. Borriane, A. Parisi (Rome, IT)</i>	39
12:12	Exercising with a pacemaker. <i>A. G. Stuart (Bristol, GB)</i>	40

Thursday 6 April

Morning Scientific Sessions

11:00 - 12:30

RAPID FIRE ABSTRACTS

Conference room
1.4 - 1.6

Rapid Fire Abstract session I

Chairpersons: D.A.O. De Bacquer (Ghent, BE); P. Marques-Vidal (Lausanne, CH)

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	Prognostic impact of physical activity prior to myocardial infarction Risk of heart failure and death after myocardial infarction <i>H.E. Ejlersen, S.J.A. Andersen, M.E.C. Von Euler-Chelpin, P.P.J. Johansen, P.S. Peter Schnohr, E.P. Prescott (Copenhagen, DK)</i>	41
11:11	Higher adherence to the traditional Mediterranean diet is associated with lower cardiovascular risk and all-cause mortality in the elderly: prospective findings from the Molisani study <i>M. Bonaccio, A. Di Castelnuovo, S. Costanzo, M. Persichillo, M.B. Donati, G. De Gaetano, L. Iacoviello (Pozzilli, IT)</i>	42
11:33	High body mass index does not protect patients with heart failure against the adverse effects of inflammation <i>Z. Saleh, D. Moser, T. Lennie (Amman, JO; Lexington, US)</i>	43
11:45	Determinants of cardiac rehabilitation uptake following a myocardial infarction event <i>A. Al Quait, P. Doherty (York, GB)</i>	44
11:56	Association between physical activity level and risk of all-cause mortality after myocardial infarction <i>A. Ek, L.V.K. Kallings, Ö.E. Ekblom, M.B. Borjesson (Stockholm and Gothenburg, SE)</i>	45
12:07	Cognitive performance in cardiac rehabilitation: impact on short and medium-term outcome of patient education <i>A. Salzwedel, M.D. Heidler, K. Wegscheider, M. Schikora, M. Jobges, P. Zaskia, H. Voller (Potsdam, Hamburg, Bernau bei Berlin and Rudersdorf bei Berlin, DE)</i>	46
12:18	Cardiovascular risk scores and discrimination of abdominal aortic aneurysms. Preliminary results from an Italian population based study <i>F. Gianfagna, L. Bertu', G. Veronesi, M. Tozzi, A. Tarallo, M. Franchin, G. Piffaretti, O. Dashi, P. Castelli, M.M. Ferrario (Pozzilli and Varese, IT)</i>	47

THURSDAY 6 APRIL

Lunchtime Sessions

12:45 - 13:45

SATELLITE SYMPOSIUM

Auditorium I

Omega 3 and carotenoids in cardio and cerebrovascular prevention - Sponsored by Carocelle Ltd.

Chairpersons: W. Doehner (Berlin, DE)

Importance of omega 3 and carotenoids in cardio and cerebrovascular health and disease prevention. The main challenges in supplementation of these essential micronutrients are low compliance, reduced with age bioavailability and side effects. New delivery chaperone technologies could reduce effective therapeutic dose and to help to overcome these shortcomings. Clinical data on comparative pharmacokinetics and pharmacodynamics will be discussed.

12:45	Omega 3 and lycopene in cardiovascular disease prevention and management. W. Doehner (Berlin, DE)	48
13:05	Omega 3 and carotenoids in cerebrovascular health. E. Johnson (Boston, US)	49
13:25	Delivery technologies to improve omega 3 supplementation Comparative pharmacokinetics and pharmacodynamics. I. Petyaev (Cambridge, GB)	50

12:45 - 13:45

SATELLITE SYMPOSIUM

Conference room I.1 - I.3

Monitoring the rising stars - Cardiac assessment in adolescent elite athletes
Sponsored by Toshiba Medical Systems Europe

Chairpersons: G. E. Pieles (Bristol, GB); M. Papadakis (London, GB)

The learning objectives are as follow:

1. Understand the specific demands of investigating adolescent elite athletes
2. Learn about advanced echocardiographic functional imaging tools in athletes
3. Understand myocardial functional adaptations to elite training in childhood and adolescence
4. Understand cardiac and myocardial mechanics and physiology during exercise in healthy athletes
5. Learn about the role myocardial deformation (strain) imaging in the assessment of athletes
6. Understand the role of echocardiography in the diagnosis of pathology in athletes

12:45	LV and RV adaptation in adolescent elite athletes. M. Sitges (Barcelona, ES)	51
13:05	Myocardial deformation imaging at rest and during exercise in athletes. G. E. Pieles (Bristol, GB)	52
13:25	Cardiac pathology in adolescent athletes Where can imaging help? A. G. Stuart (Bristol, GB)	53

12:45 - 13:45

SATELLITE SYMPOSIUM

Conference room I.4 - I.6

The importance of nutritional interventions for heart and cardiovascular health
Sponsored by DSM Nutritional Products AG

Chairpersons: R. Winwood (Haverhill, GB)

Consumers are increasingly seeking for preventive health strategies that can support heart health. In this Satellite Symposium we explore heart disease demographics and nutritional strategies that can help support targeted heart health. The Satellite Symposium aims at providing insights and presenting new scientific evidence to MDs and HCPs, on the role of nutritional solutions in prevention of CVD. We will address function and mechanis of key nutrients related to risk factors. Case studies will help examine few of these solutions.

12:45	Essential nutrients for cardiovascular health - Reconciling the evidence. C. Von Schacky (Munich, DE)	54
13:05	Nutritional approaches in primary and secondary prevention of cardiovascular disease. M. Eggersdorfer (Stein, CH)	55
13:15	Fatty acids and their role in cardiometabolic health R. Chowdhury (Cambridge, GB)	56

THURSDAY 6 APRIL

Afternoon Scientific Sessions

14:00 - 15:30

MASTER CLASS

Auditorium 2

Secondary Prevention: unmet medical needs - Session I

Chairpersons: J. Perk (Osakarhamn, SE); P. M. Clemmensen (Nykobing F, DK)

This session is organised in the framework of the ESC Prevention of CVD Programme.

14:00	Distribution of estimated 10year risk of recurrent vascular events and residual risk in a secondary prevention population. F.L.J. Visseren (Utrecht, NL)	57
14:22	Individual decision for length of dual antiplatelet therapy after ACS. P. M. Clemmensen (Nykobing F, DK)	58
14:45	New oral antidiabetic agents reduce cardiovascular events. To be announced	59
15:07	PCSK9Inhibitions: for whom, when, and how effective. C.H. Saely (Feldkirch, AT)	60

14:00 - 15:30

SPECIAL SESSION

Auditorium I

Utility of cardio pulmonary exercise testing in cardiac rehabilitation

Joint session with Spanish Society of Cardiology

Chairpersons: To be announced; J. A. Alarcon (Zaldibar, ES)

14:00	State of the art lecture: Key parameters of cardio pulmonary exercise testing at the beginning of a cardiac rehabilitation programme. J.I. Castillo Martin (Madrid, ES)	61
14:20	Case: Cardio pulmonary exercise testing in a patient with coronary artery disease. M. Abeytua Jimenez (Madrid, ES)	62
14:40	Panel discussion. U. Corra (Veruno, IT); A. Abreu (Lisbon, PT); E. Velasco (Madrid, ES)	63
14:45	Case: Cardio pulmonary exercise testing in a patient with heart failure. A. Berenguel (Layos, ES)	64
15:15	Panel discussion. U. Corra (Veruno, IT); A. Abreu (Lisbon, PT); M. Abeytua Jimenez (Madrid, ES)	65

14:00 - 15:30

HOW-TO SESSION

Conference room

I.1 - I.3

How to make use of add-ons in exercise testing?

Chairpersons: H. M. C. Kemps (Den Bosch, NL); M. Dorr (Greifswald, DE)

14:00	How to use Twave alternans for assessment of repolarization of ventricles? T. Nieminen (Lahti, FI)	66
14:22	How to use near infrared spectroscopy for assessment of muscle oxygenation? To be announced	67
14:45	How to use bioimpedance and bioreactance methods for assessment of central hemodynamics? D. Jakovljevic (Newcastle Upon Tyne, GB)	68
15:07	How to use exercise flowvolume loops for assessment of pulmonary pathophysiology? P. L. Piirila (Helsinki, FI)	69

THURSDAY 6 APRIL

Afternoon Scientific Sessions

14:00 - 15:30

SYMPOSIUM

Conference room 1.4 - 1.6

Tobacco endgame: the roles of e-cigarettes, waterpipe and media

Chairpersons: *M.L. Lochen (Tromsø, NO); O. H. Franco Duran (Rotterdam, NL)*

14:00	Evidence, not conjecture, should guide policy on e-cigarettes. <i>S. Agrawal (Leisen, GB)</i>	70
14:22	Why public health people are more worried than excited over e-cigarettes. <i>C. Pisinger (Glostrup, DK)</i>	71
14:45	Waterpipe and other forms of smoking. How much do we know about their health impact? <i>M. Jawad (London, GB)</i>	72
15:07	Impact of media, movies and TV on tobacco use and cessation in the young. <i>R. Hanewinkel (Kiel, DE)</i>	73

15:30 - 16:30

MODERATED POSTERS

Moderated Poster Area

Moderated Poster Session II - Epidemiology

Chairpersons: *L. Palmieri (Rome, IT); J.C. Barthelemy (SaintEtienne Cedex 2, FR)*

Posters are on display in the poster area from 08:30 until 18:00.

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.

	Plasma choline and betaine and risk of incident atrial fibrillation: the Hordaland Health Study <i>H. Zuo, P.M. Ueland, O. Nygard, S.E. Vollset, G.S. Tell (Bergen, NO)</i>	74
	Considering fatty liver disease as a novel risk factor for cardiovascular outcomes and mortality (cohort study) <i>A. Ryabikov, S. Maluyutina, N. Yasukevich, S. Shakhmatov, V. Gafarov, E.U. Verevkin, M. Bobak, Y.U. Nikitin (Novosibirsk, RU; London, GB)</i>	75
	Incidence, treatment, mortality and further outcomes of acute myocardial infarction in the Czech Republic 1992 - 2012 <i>J. Bruthans, O. Mayer Jr, M. Zvolisky (Prague and Pilsen, CZ)</i>	76
	Trends in the risk of early and late-onset heart failure as an adverse outcome of acute myocardial infarction: a CVDNOR project <i>G. Sula, J. Iglund, O. Nygaard, S.E. Vollset, M. Ebbing, C.H. Cerqueira, G.M. Egeland, T. Jorgensen, G.S. Tell (Bergen, NO; Capital Region, DK)</i>	77
	Screening for total cholesterol in pharmacies is suitable to identify individuals with high cholesterol levels <i>K. Svendsen, I. Tanning Royseth, L.T. MarchReiersen, M. Gjeitung Byfuglien, K.W. Garstad, D. Jacobs, V. TelleHansen, K. Retterstol (Oslo, NO; Minneapolis, US)</i>	78
	Tenyear changes in the prevalence of healthy lifestyle behaviors and factors among Polish Adults. Results of the National Multicenter Health Surveys WOBASZ (20032005) and WOBASZ II (20132014). <i>M. Kwasniewska, M. Pikala, W. Bielecki, A. Aranowska, A. Waskiewicz, K. Kozakiewicz, A. Tykarski, A. Pajak, T. Zdrojewski, W. Drygas (Lodz, Warsaw, Katowice, Poznan, Krakow and Gdansk, PL)</i>	79
	Salt intake assessed by 24hour urine excretion in the Tromsø Study 20152016 <i>H. E. Meyer, L. Johansson, A.E. Eggen, K. Holvik (Oslo and Tromsø, NO)</i>	80
	Study of prevalence of rheumatic heart disease among school children in central Nepal <i>S. Laudari (Bharatpur,Chitwan, NP)</i>	81

16:30 - 18:00

MASTER CLASS

Auditorium 2

Secondary Prevention: unmet medical needs - Session II

Chairpersons: *S. Haefer (Innsbruck, AT); H. Voller (Rudersdorf, DE)*

This session is organised in the framework of the ESC Prevention of CVD Programme.

16:30	Achieving lipid or hypertension goals: how are we doing? <i>K. Kotseva (London, GB)</i>	82
16:52	What are the main barriers to adherence? <i>M. F. Piepoli (Piacenza, IT)</i>	83
17:15	How to initiate a long-lasting behavioral change: do's and don'ts. <i>M.E. Cupples (Belfast, GB)</i>	84
17:37	Is telemedicine the egg of Columbus? <i>P. Dendale (Hasselt, BE)</i>	85

THURSDAY 6 APRIL

Afternoon Scientific Sessions

16:30 - 18:00

SYMPOSIUM

Auditorium I

A new approach in CVD risk management, the role of pharmacists

Chairpersons: J. Perk (Oskarshamn, SE); A.P. Peletidi (Surbiton, GB)

16:30	The effectiveness of pharmacist interventions on cardiovascular risk. <i>R. Tsuyuki (Edmonton, CA)</i>	86
16:52	Cardiovascular risk assessment and effects on behavior in Switzerland: the CardioTest. <i>O. Pfister (Basel, CH)</i>	87
17:15	Check-up your heart health at Swedish pharmacies. <i>M. Norelius (Lidingo, SE)</i>	88
17:37	Do Greek pharmacists have a role in CVD prevention? A pharmacy-led weight management programme. <i>A.P. Peletidi (Surbiton, GB); R. Kayyali (Kingston Upon Thames, GB)</i>	89

16:30 - 18:00

HOW-TO-SESSION

Conference room
I.1 - I.3

How to assess frailty?

Chairpersons: A. Abreu (Lisbon, PT); C.H. Davos (Athens, GR)

16:30	Gait function and exercise capacity. <i>S. Eichler (Potsdam, DE)</i>	90
16:52	Cognitive function and mood. <i>T. Quinn (Glasgow, GB)</i>	91
17:15	Nutritional status. <i>P. Abizanda (Albacete, ES)</i>	92
17:37	Activity of daily living. <i>C. Vigorito (Naples, IT)</i>	93

16:30 - 18:00

YOUNG INVESTIGATORS AWARD

Conference room
I.4 - I.6

Young investigator award session II - Sport Cardiology

Chairpersons: M. Papadakis (London, GB); E. E. Solberg (Oslo, NO)

Judges: S. Caselli (Rome, IT); P. E. Adami (Rome, IT); A. Biffi (Rome, IT); C. Schmed (Zurich, CH)

Six abstracts have been 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.

16:30	The exercise induced CRP response is reproducible when measured one year apart. <i>O. Kleiven, M. Bjorkavall-Bergseth, T. Melberg, O.E. Skadberg, B. Auestad, S. Orn (Stavanger, NO)</i>	94
16:45	Exercise-related cardiac arrest in region western Sweden; incidence, prognosis and outcome <i>E. Zagerholm, J. Herlitz, M. Borjesson (Gothenburg, SE)</i>	95
17:00	The mixed race athlete's ECG: Not so black and white. <i>A. Malhotra, P. Rao, H. Dhutia, S. Gati, T. Keteepe-Arachi, G. Finnochiaro, A. D'silva, T.J. Yeo, M. Papadakis, S. Sharma (London, GB)</i>	99
17:15	Nationwide cardiovascular screening of young individuals: the diagnostic yield and implications on workload. <i>H. Dhutia, A. Malhotra, G. Finnochiaro, M. Papadakis, S. Sharma (London, GB)</i>	96
17:30	Pulmonary transit of agitated saline is related to improved cardiac performance during exercise in highly trained endurance athletes. <i>M. Sanz De La Garza, K. Duran, I. Blanco, F. Burgos, X. Alsina, G. Grazioli, S. Prat, B. Bijnens, M. Sitges (Barcelona, ES)</i>	97
17:45	Masters Athlete Cardiac Health (MACH) study: insights into pre-participation screening and cardiovascular risk in masters athletes. <i>B. N. Morrison, S. Isserow, J. McKinney, D. Lithwick, B. Heilbron, J. Taunton, D. E. R. Warburton (Vancouver, CA)</i>	98

THURSDAY 6 APRIL

Afternoon Scientific Sessions

18:15 - 19:15

Special Event

Auditorium 2

INAUGURAL SESSION

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

18:15 Welcome from the ESC Leadership

I. M. Graham (Wicklow, IE)

18:20 Welcome to Malaga

A. Iniguez Romo (Vigo, ES)

18:25 Scientific programme: what you should not miss

J.P. Schmid (Barmelweid, CH)

18:30 Keynote Lecture: Neoatherosclerosis, a novel disease entity
with broad-reaching clinical impact

M. Joner (Gaithersburg, US)

19:00 Opening Address: EAPC President

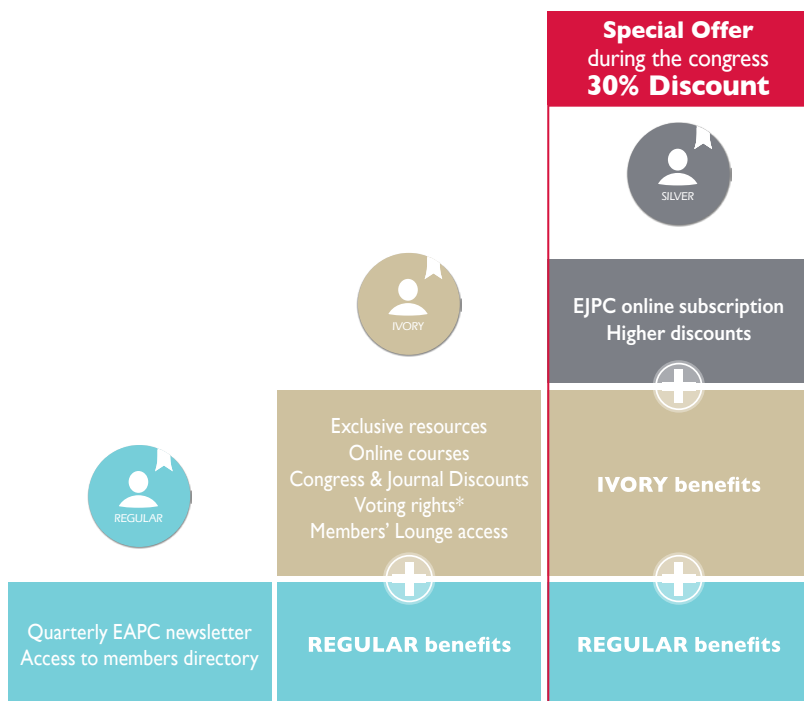
D.E. Grobbee (Utrecht, NL)

Join us afterwards for the Networking Reception



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*Voting rights are restricted to members from ESC countries



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THURSDAY 6 APRIL

Poster Session

08:30 18:00

POSTER SESSION I

Poster session

Posters to be on display between 08:30 -18:00

Poster viewing tours and discussion questions: during coffee breaks from 10:00 - 11:00 and 15:30 - 16:30. Presenters are required to be by their poster for each break in order to discuss the poster with the audience.
Poster removal 18:00 - 18:30

Diabetes/ Lipids/Obesity/Nutrition_Part 1

Diabetes/ Lipids/Obesity/Nutrition_Part 1 100
Poster Discussant: To be announced

An evaluation of the prevalence of diabetes and pre-diabetes in a cardiac rehabilitation nurse led PCI clinic at University Hospital. 101

C. Cahill, C. Ahern, K. Mannix (Limerick, IE)

Controversies in metabolic syndrome definition in coronary heart disease patients 102

O. Mayer, J. Bruthans, J. Vanek, P. Karnosova, M. Hronova (Plzen and Prague, CZ)

Diabetes in the risk profile of patients with coronary heart disease 103

N. Gotcheva, B. Georgiev, E. Trendafilova, V. Baytcheva, D. Gotchev (Sofia, BG)

Complex influence of diabetes and OSA on endothelial function in patients with arterial hypertension 104

N. Burko, L. Salyamova, V. Oleinikov (Penza, RU)

The role of dietary patterns in 10year (2002/2012) diabetes incidence. 105

E. Koloverou, D. B. Panagiotakos, E. Georgousopoulou, A. Grekas, A. Christou, M. Chatzigeorgiou, C. Chrysohoou,

D. Tousoulis, C. Stefanadis, C. Pitsavos (Athens, GR)

Relationship between NTproBNP and left ventricular remodeling in asymptomatic prediabetic or type 2 diabetic patients 106

A. Banushi, A. Mitre, V. Paparisto, I. Refatlari, N. Kuka, S. Qirko, A. Goda (Tirana, AL)

Effect of diabetic duration on left ventricular global longitudinal strain in diabetic patients by speckle tracking imaging 107

A.H.M.E.D. Elgohary (Al Jizah, EG)

LDLC better predicts atherosclerotic vascular alterations compared with non-HDLC in men with erectile dysfunction 108

M. Petrylaite, V. Dzenkeviciute, Z. Petrulionene, J. Badariene, V. Sapoka (Vilnius, LT)

Early combined hypolipidemic therapy in patients with diabetes (T2DM) experienced acute coronary syndrome (ACS) as effective and safe approach for secondary prophylaxis 109

O. Koval', T. Pugach, P. Kaplan, S. V. Romanenko (Dnipropetrovsk, UA)

Decreased plasma b-gamma-glutamyltransferase activity in hypercholesterolemic patients receiving rosuvastatin: a potential mechanism of plaque stabilization? 110

A. Aimo, C. Mammì, M. Franzini, V. Fierabracci, A. Giannoni, C. Passino, M. Emdin (Pisa, IT)

Diabetes/ Lipids/Obesity/Nutrition_Part 2

Diabetes/ Lipids/Obesity/Nutrition_Part 2 111
Poster discussant: W. Doehner (Berlin, DE)

Familial heterozygous dyslipidemia evaluation in lipid treated populations: FHLEP 112

J.S. Daigle, N. Giacomantonio (Halifax, CA)

Age-related differences in the lipid profile in patients admitted to a cardiac rehabilitation program 113

A. Chauga Tapia, R. Colman Llamozas, T. Bretones Del Pino, L. Gutierrez Alonso, E. Otero Chulian,

R. Vazquez Garcia (Cadiz, ES)

Potential use of PCSK9 inhibitors in secondary prevention for patients with treated acute coronary syndrome. 114

A study from a large UK university teaching hospital

A. F. M. Elamin, T. Obafemi, K. Khan, G. K. Davis (Liverpool, GB)

Statin-treated patients: are the lipid goals reached? 115

K. Mzoughi, I. Zairi, Z. Jnifene, S. Kamoun, F. Ben Mousa, S. Fennira, S. Kraiem (Tunis, TN)

Lipid profile comparisons in women with acute myocardial infarction of different age 116

O. Tsygankova, D. Y. Platonov, N. G. Lozhkina, L. D. Latyntseva, K. Y. Nikolaev (Novosibirsk and Tver, RU)

THURSDAY 6 APRIL

Poster Session

The lipid profile of subjects who admitted to Internal medicine polyclinic <i>H. Yilmaz, S. Oguz, G. Camci, A. Genc (Istanbul, TR)</i>	117
Behavior of LDL cholesterol levels in patients with ischemic heart disease before, during and after cardiac rehabilitation <i>E. Otero Chulian, R. Colman Llamozas, A. Chauca Tapia, T. Bretones Del Pino, J. Delgado Pacheco, R. Vazquez Garcia (Cadiz, ES)</i>	118
No correlation between obesity and elevated blood level of lipoprotein a in young healthy working population <i>J. Gilis-Januszewski, R. Gottfried-Kwasniok, T. Gilis-Januszewski, F. Van Buuren, D. Horstkotte, K.P. Mellwig (Bad Oeynhausen, DE)</i>	119
Diabetes/ Lipids/Obesity/Nutrition_Part 3	
<hr/>	
Diabetes/ Lipids/Obesity/Nutrition_Part 3 Poster discussant: <i>D. B. Panagiotakos (Athens, GR)</i>	121
Dark chocolate polyphenol intake is an efficient predictor of metabolic syndrome <i>D.D. Mellor, E. Georgousopoulou, N. Naumovski, D. B. Panagiotakos, C. Chrysohoou, A. Zana, D. Tousoulis, C. Stefanadis, C. Pitsavos (Canberra, AU; Athens, GR)</i>	122
Nutritional status in patients with peripheral arterial disease (PAD) and concomitant periodontal disease (PD) <i>A. Horina, B. Arefnia, S. Gutmann, M. Rammer, M. Brodmann, G. Wimmer, H. Mangge, G.Seinost (Graz, AT)</i>	123
Khorasan wheat products' consumption and non-alcoholic fatty liver disease (NAFLD): a randomized, double-blind trial <i>M. Dinu, G. Pagliai, A. Mangino, B. Colombini, A. Whittaker, A. Casini, S. Benedettelli, F. Sofi (Florence, IT)</i>	124
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FRIDAY 7 APRIL

Morning Scientific Sessions

08:30 - 10:00

SYMPOSIUM

Auditorium 2

Cardiac telerehabilitation: greater benefits at lower costs?

Chairpersons: M. Guazzi (San Donato Milanese, IT); M. Wilhelm (Bern, CH)

Despite proven clinical benefits of cardiac rehabilitation, participation rates in most European countries remain low. Moreover, achieved benefits are often not sustained over time. Implementation of cardiac telerehabilitation combining modern ICT platforms, sensor technology and cognitive behavioural strategies may lead to an increase in CR participation and to a superior improvement in self-management skills as compared to traditional centre-based approaches. This session provides an overview of advances in cardiac telerehabilitation with respect to clinical and economic benefits, technological advancements and patient selection.

08:30	Cardiac telerehabilitation in low-to-moderate risk patients; lessons from the FIT@Home trial. <i>H. M. C. Kemps (Den Bosch, NL)</i>	291
08:52	Home-based exercise training in patients with chronic heart failure; how to prescribe and monitor training intensity. <i>M. Halle (Munich, DE)</i>	292
09:15	Is cardiac telerehabilitation cost effective? <i>J. J. Kraai (Amsterdam, NL)</i>	293
09:37	Towards a comprehensive multifaceted telerehabilitation program. <i>P. Dendale (Hasselt, BE)</i>	294

08:30 - 10:00

CASE-BASED SYMPOSIUM

Auditorium 1

Innovations in preventing sudden death in athletes

Chairpersons: A. Pelliccia (Rome, IT); L. Serratos Fernandez (San Lorenzo De El Escorial, ES)

This session will explore novel data in the field of sudden cardiac death prevention in young and athletic individuals.

- Gain insight into the causes of sudden cardiac death in athletes and how contemporary studies differ from long-held beliefs.
- Critically appraise the significance of myocardial scar on athletic individuals and whether it poses a risk for sudden cardiac death.
- Recognise the cost-effectiveness issues surrounding pre-participation screening and review new evidence that address for the first time cost effectiveness issues in real, large population groups.
- Evaluate the psychological impact of screening, diagnosis with disease and potential disqualification.

08:30	Contemporary studies of sudden cardiac death in young athletes. <i>M.N. Sheppard (London, GB)</i>	295
08:48	Myocardial scar in athletes: risk marker for sudden cardiac death?	296
09:06	Cost effective pre-participation screening in athletes: is it feasible? <i>H. Dhutia (London, GB)</i>	297
09:24	Emergency response facilities including primary and secondary prevention strategies across professional soccer clubs in England <i>A. Malhotra, G. Finnachiaro, S. Gati, T. KeteepeArachi, P. Rao, N. Sahdev, D. Reddin, C. Cowie, M. Papadakis, S. Sharma (London, GB)</i>	297 A
09:42	Psychological impact of screening: facts and fiction. <i>E. E. Solberg (Oslo, NO)</i>	298

08:30 - 10:00

SYMPOSIUM

Conference room 1.1 - 1.3

Metabolic targets in rehabilitation in the young and in the old: is there a seasoning aspect?

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

08:30	Energy metabolism requirements in extreme conditions. <i>K. Clarke (Oxford, GB)</i>	299
08:52	Cardiovascular prevention in the young: is it different to the old patient? <i>D. Gaita (Timisoara, RO)</i>	300
09:15	Weight management recommendations should be different in young and old patients: ageing as a black spot in our guidelines. <i>C.H. Davos (Athens, GR)</i>	301
09:37	Energy metabolism in cardiovascular rehabilitation. <i>M. Lainscak (Murska Sobota, SI)</i>	302

FRIDAY 7 APRIL

Morning Scientific Sessions

08:30 - 10:00

YOUNG INVESTIGATORS AWARD

Conference
room I.4 - I.6

Young investigator award session III - Prevention, Epidemiology & Population Science (PEP)

Chairpersons: P. Marques-Vidal (Lausanne, CH); M. Kavousi (Rotterdam, NL)

Judges: V. Vassiliou (London, GB); J.C. Barthelemy (Saint-Etienne Cedex 2, FR); C. Graf (Cologne, DE)

Six abstracts have been 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.

08:30	Body size and risk of atrial fibrillation in women a registry-based cohort study C. E. Persson, M. Adiels, L. Bjorck, A. Rosengren (Gothenburg, SE)	303
08:45	Relationship between objective and subjective assessment of physical functioning and cardiovascular disease incidence. The HAPIEE Study. A. Besala, M. Kozela, R. WolfshautWolak, A. Pajak (Krakow, PL)	304
09:00	Substitution of linoleic acid for saturated fatty acids, mono-unsaturated fatty acids or glyceic carbohydrates and the risk of ischemic stroke S. K. Venoe, M. U. Jakobsen, S. Lundbye-Christensen, F. W. Bach, E. B. Schmidt, K. Overvad (Aalborg and Aarhus, DK)	305
09:15	Mediterranean diet and multiple health outcomes: an umbrella review of meta-analyses of observational studies and randomized trials M. Dinu, G. Pagliai, A. Casini, F. Sofi (Florence, IT)	306
09:30	Sex differences in risk factor control and management for secondary prevention of coronary heart disease across three regions: an analysis from SURF data M. Zhao, I. Vaartjes, I. Graham, D.E. Grobbee, W. Spiering, K. Klipstein-Grobusch, M. Woodward, S. Peters (Utrecht, NL; Dublin, IE; Sydney, AU; Oxford, GB)	307
09:45	Associations of leptin, insulin and lipids with retinal microvasculature in children C. Van Aart, N. Michels, I. Sioen, A. De Decker, T. Nawrot, S. De Henauw (Ghent and Hasselt, BE)	308

10:00 - 11:00

MODERATED POSTERS

Moderated
Poster Area

Moderated Poster Session III - Exercise Testing/ Training/ Cardiac Rehabilitation

Chairpersons: M.C. Iliou (Issy Les Moulineaux, FR); P. Doherty (York, GB)

Posters are on display in the poster area from 08:30 until 18:00.

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.

	One year sustaining of combined effects of cardiac rehabilitation and balloon pulmonary angioplasty on exercise capacity in patients with inoperable chronic thromboembolic pulmonary hypertension. S. Fukui, T. Ogo, J. Ueda, A. Tsuji, L. Kumasaka, T. Arakawa, M. Nakanishi, S. Yasuda, Y. ~ Goto (Osaka, JP)	309
	Telemonitoring in patients with a new diagnosis of heart failure: from clinical research to everyday practice. G. Koulaouzidis, D. Barrett, A. Clark (Hull, GB)	310
	Cardiac rehabilitation is superior to invasive coronary revascularization in improving functional capacity as measured by cardiopulmonary exercise testing N. Kumar, N. Kumar, M. Katsoulis, A. Bagai, S. Chaudhry (WHITBY and Toronto, CA; Atlanta, US)	311
	Impact of novel index of myocardial contractile reserve on hospital admission rates A. Bobrov, L. Bobrov (Saint Petersburg, RU)	312
	Antioxidant defense, ventricular remodeling and physical fitness changes in heart failure patients submitted to moderate and high intensity interval treadmill training V. Angarten, A.Z. Ulbrich, A.S. Netto, S.W. Sties, L.S. De Mara, F.A. Cruz, M. Carmo, R. Pereira, E.L. Silva, T. De Carvalho (Lisbon, PT; Curitiba, Florianopolis, Florianópolis and Jequié, BR)	313
	Endurance-type exercise combined with acipimox administration provides superior benefits for glycemic control compared with endurance-type exercise alone in male patients with type 2 diabetes D.R.M.J. Hansen, K. Verboven, J.W. Van Dijk, L.J. Van Loon (Hasselt, BE; Nijmegen and Maastricht, NL)	314
	Impact of aerobic interval training and continuous training on left ventricular geometry and function: a SAINTEX CAD substudy E. Van Craenenbroeck, C. Van De Heyning, C. De Maeyer, N. Pattyn, P. Beckers, V. Connelissen, K. Goetschalckx, J.U. Voight, L. Vanhees, B. Shivalkar (Antwerp and Leuven, BE)	315
	Dynamics of oxygen uptake and ventilatory response during and after the six-minute walk test in patients with heart failure K. ~ Yoshimura, S. Yuguchi, Y. Urabe, N. Maeda, T. Yoshida (Okayama and Hiroshima, JP)	316

FRIDAY 7 APRIL

Morning Scientific Sessions

11:00 - 12:30

SYMPOSIUM

Auditorium 2

Telemedicine in primary prevention

Chairpersons: D.R.M.J. Hansen (Hasselt, BE); P. Dendale (Hasselt, BE)

11:00	The EXPERT Tool: Focus on prevention D.R.M.J. Hansen (Hasselt, BE)	317
11:22	Home-based telemonitoring reduces HbA1c in type 2 diabetes. The evidence A. Mischie (Montluçon, FR)	318
11:45	The CITY trial, investigating a m-Health behavioral weight loss intervention in the obese patient To be announced	319
12:07	TASMINH2, evaluating the effectiveness of telemonitoring and self-management in hypertension To be announced	320

11:00 - 12:30

CASE-BASED SYMPOSIUM

Auditorium 1

New frontiers in sport cardiology: quantifying risk in master athletes

Chairpersons: J. Niebauer (Salzburg, AT); A. G. Stuart (Bristol, GB)

This session will explore emerging evidence in the field of the veteran/master athletes and specific issues encountered in Sports Cardiology practice through real-life cases.

- Explore cardiovascular adaptations of chronic, high intensity exercise and differentiate what constitutes normal adaptation compared to heart disease.
- Critically appraise the evidence suggesting potential harmful effects of chronic, endurance training.
- Evaluation and management of athletes with atrial fibrillation.
- Gain insight into the value and limitations of assessing risk of cardiac events in novice and veteran master athletes.

11:00	The veteran athlete's heart: is old really gold? S. Sharma (London, GB)	321
11:18	Right ventricular adaptation to exercise: the weak link of endurance training? A. La Gerche (Melbourne, AU)	322
11:36	Atrial fibrillation in athletes: a marker of exercise overdose? L. Mont (Barcelona, ES)	323
11:54	Aortic root remodeling according to the classification of sport G. Grazioli, M. Sanz, S. Montserrat, B. Vidal, A. Doltra, G. Sarquella-Brugada, M. Bellver, R. ~ Canal, J.A. Gutierrez, M. Sitges (Barcelona, Esplugues de Llobregat and Sant Cugat del Vallès, ES)	324
12:12	Quantifying risk in master athletes; Practical approach or wishful thinking? M. Borjesson (Vastra Frolunda, SE)	325

11:00 - 12:30

SPECIAL SESSION

Conference room I.1 - I.3

How to tailor cardiac rehabilitation in patients with devices or endstage diseases?

Joint session with the Japanese Society of cardiac rehabilitation

Chairpersons: Y. Kimura (Hirakata, JP); H. Voller (Rudersdorf, DE)

11:00	Cardiac rehabilitation for the patients with sarcopenia S. Yamada (Nagoya, JP)	326
11:22	After TAVI. A. Abreu (Lisbon, PT)	327
11:45	Patients with impaired renal function. Y. Goto (Suita, JP)	328
12:07	After LVAD implantation. U. Corra (Veruno, IT)	329

FRIDAY 7 APRIL

Morning Scientific Sessions

11:00 12:30

RAPID FIRE ABSTRACTS

Conference
room 1.4 - 1.6

Rapid Fire Abstract session II

Chairpersons: C. Vigorito (Naples, IT); To be announced

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 | Can traditional risk factors explain the higher risk of cardiovascular disease in South Asians compared to Europe and in Norway and New Zealand?
<i>K.S. Rabanal, H.E. Meyer, G.S. Tell, J. Igland, R. Pylypchuk, S. Mehta, B. Kumar, A.K. Jenum, R.M. Selmer, R.T. Jackson (Oslo and Bergen, NO; Auckland, NZ)</i> | 330 |
| 11:11 | Social inequalities in the burden of stroke in Germany: cross-sectional analysis of a nationwide population-based health survey
<i>M.A. Busch, J. Hoebel, T. Lampert (Berlin, DE)</i> | 331 |
| 11:22 | Elevated resting heart rate in combination with vital exhaustion increases the risk of death from ischemic heart disease in the general population: the Copenhagen City Heart Study
<i>E. Clays, A. Holtermann, J.L. Marott, E. Prescott, M.T. Jensen (Ghent, BE; Copenhagen and Holbaek, DK)</i> | 332 |
| 11:33 | Association between dietary fat intake and coronary heart disease in middle-aged and senior adults. The Hordaland Health Studies (HUSK)
<i>T.R. Haugsgjerd, G.M. Egeland, S.E. Vollset, O. Nygaard, G. Sulo, K. Bjoernevik, G.S. Tell (Bergen, NO)</i> | 333 |
| 11:45 | Epicardial adiposity, regardless of visceral adiposity, is associated with significant cardiovascular abnormalities in untreated and asymptomatic subjects, as measured by the calcium score
<i>M. El Shahawy, A.S. Byju (Sarasota, US)</i> | 334 |
| 11:56 | Attainment of blood pressure, lipids and diabetes targets in people at high cardiovascular risk in Europe: a report from the EUROASPIRE IV Survey
<i>K. Kotseva, C. Jennings, D. De Bacquer, G. De Backer, V. Gyberg, L. Ryden, D. Wood (London, GB; Ghent, BE; Stockholm, SE)</i> | 335 |
| 12:07 | Translation of evidence from 11 randomized clinical trials on statin use in primary prevention of cardiovascular disease into ESC 2016 and ACC/AHA 2013 guidelines: results from the Rotterdam Study J. – Pavlovic, J. W. Deckers, M. Kavousi, M. A. Ikram, O. H. Franco, M. J. G. Leening (Rotterdam, NL) | 336 |
| 12:18 | The association between education level and cardiovascular disease incidence is partially mediated by uncontrolled diabetes and hypertension and by smoking
<i>I.R. Degano, J. Marrugat, M. Grau, B. Salvador, R. Ramos, A. Zamora, R. Marti, R. Elosua (Barcelona and Girona, ES)</i> | 337 |

FRIDAY 7 APRIL

Lunchtime sessions

12:45 - 13:45

SATELLITE SYMPOSIUM

Auditorium I

Pharmacological agents during cardiac rehabilitation: the synergy to go further - Sponsored by SERVIER

Chairpersons: A. Abreu (Lisbon, PT); A. Cohen-Solal (Paris, FR)

This scientific program is intended to understand the value of cardiac rehabilitation programs as part of the recommended treatment in post-MI patients and following an acute event in heart failure patients, to assess how medicines, either metabolic or haemodynamics drugs, and exercise can lead to a virtuous circle of patients' well-being, and finally to characterize the challenges in setting up cardiac rehabilitation programs and understand potential solutions.

12:45	Introduction. A. Abreu (Lisbon, PT)	338
12:48	Cardiac rehabilitation: current challenges and barriers. F. Edelmann (Berlin, DE)	339
13:06	The role of metabolic agents during cardiac rehabilitation. R. Belardinelli (Ancona, IT)	340
13:24	The benefits of improving systolic function by pure heart rate reduction. M.B. Yilmaz (Sivas, TR)	341
13:42	Conclusion. A. Cohen-Solal (Paris, FR)	342

12:45 - 13:45

SATELLITE SYMPOSIUM

Conference room I.1 - I.3

Turning evidence into practice: integrating smoking cessation into cardiovascular clinics - Sponsored by Pfizer

Chairpersons: E. A. Lopez De Sa Y Areses (Madrid, ES)

Understand the importance of treating cardiovascular patients for smoking cessation. Discuss the latest clinical and real world evidence for managing and treating smoking cessation in patients with cardiovascular disease. Share best practice and tips for addressing smoking cessation on the cardiology ward.

12:45	Welcome and introductions. E. A. Lopez De Sa Y Areses (Madrid, ES)	343
12:50	Addressing smoking cessation in patients with cardiovascular disease (CVD). S. Gupta (London, GB)	344
13:05	The evidence for smoking cessation in patients with CVD. E. A. Lopez De Sa Y Areses (Madrid, ES)	345
13:20	Smoking cessation on the cardiology ward: sharing best practice. R. Dalmau (Madrid, ES)	346
13:35	Q&A session. E. A. Lopez De Sa Y Areses (Madrid, ES)	347
13:44	Thank you and close. E. A. Lopez De Sa Y Areses (Madrid, ES)	348

12:45 - 13:45

SATELLITE SYMPOSIUM

Conference room I.4 - I.6

Retinal vessel analysis in cardiovascular prevention - Sponsored by Imedos Systems UG

Chairpersons: H. Hanssen (Basel, CH); P. Leeson (Oxford, GB)

The Satellite Symposium gives an introduction and perspectives to the method and application of retinal vessel imaging in cardiovascular prevention. Static and dynamic retinal vessel analysis are diagnostic tools to optimize cardiovascular risk screening and therapy guidance in chronic vascular and metabolic disease. It gives an overview on imaging microvascular structure and function and demonstrates its clinical use and relevance. Current Data from large cohort studies are presented.

12:45	Retinal vessel analysis: a biomarker of cardiovascular risk. H. Hanssen (Basel, CH)	349
13:00	Retinal vessel imaging in chronic heart failure. A. Flammer (Zurich, CH)	350
13:15	Retinal vessel imaging: predictor for mortality in end stage renal disease The ISAR study. C. Schmauderer (Munich, DE)	351
13:30	Retinal vessel imaging in diabetic patients The Maastricht study. A. J. H. M. Hauben (Maastricht, NL)	352

FRIDAY 7 APRIL

Afternoon Scientific Sessions

14:00 - 15:30

MASTER CLASS

Auditorium 2

Cardiovascular risk and poly pill

Chairpersons: N. Sheikh (London, GB); V. Vassiliou (London, GB)

This session is organised in the framework of the ESC Prevention of CVD Programme.

14:00	How to assess cardiovascular risk Time for a rethink? <i>I. M. Graham (Wicklow, IE)</i>	353
14:22	Assessment of preclinical atherosclerosis <i>U. Nixdorff (Duesseldorf, DE)</i>	354
14:45	The poly pill concept: what, for whom and when? <i>D.E. Grobbee (Utrecht, NL)</i>	355
15:07	Polymeal vs. poly pill: where is the limit of natural? <i>O. H. Franco Duran (Rotterdam, NL)</i>	356

14:00 - 15:30

SYMPOSIUM

Auditorium I

Nutrition over lifespan

Chairpersons: C. Vigorito (Naples, IT); E. Garcia Porrero (Leon, ES)

14:30	Sweet and soft Mistakes in the youth. <i>M. Ezzati (London, GB)</i>	357
14:45	Diet in patients with metabolic syndrome: low carb or low cholesterol? <i>A. T. Timoteo (Lisbon, PT)</i>	358
15:00	Nutrition in the elderly: what are the essentials? <i>W. Doehner (Berlin, DE)</i>	359
15:15	The gut and the heart. <i>M. Troseid (Oslo, NO)</i>	360

14:00 - 15:30

SYMPOSIUM

Conference room 1.1 - 1.3

The role of exercise in diabetes prevention and therapy

Chairpersons: K. Madan (New Delhi, IN); M. Halle (Munich, DE)

14:00	Exercise and diabetes prevention – Lessons learned from epidemiology <i>E. Prescott (Copenhagen, DK)</i>	361
14:22	Cellular and molecular mechanisms of exercise-induced health benefits. <i>N. Kraenkel (Berlin, DE)</i>	362
14:45	Concepts for long-term adherence to physical activity goals. <i>P. Jankowski (Krakow, PL)</i>	363
15:07	Patients with coronary artery disease and diabetes: improved management needed <i>To be announced</i>	364

14:00 - 15:30

DEBATE SESSION

Conference room 1.4 - 1.6

Exercise for cardiovascular health: a double edged sword?

Chairpersons: F. Schnell (Rennes, FR); M. Tiberi (Pesaro, IT)

14:00	Too much exercise can be detrimental to cardiovascular health (PRO) <i>M. Wilhelm (Bern, CH)</i>	365
14:22	Too much exercise can be detrimental to cardiovascular health (CONTRA) <i>A. Malhotra (London, GB)</i>	366
14:45	Exercise restriction is necessary in athletes with cardiac disease (PRO). <i>F. Carre (Rennes Cedex, FR)</i>	367
15:07	Exercise restriction is necessary in athletes with cardiac disease (CONTRA). <i>M. Sitges (Barcelona, ES)</i>	368

FRIDAY 7 APRIL

Afternoon Scientific Sessions

15:30 - 16:30

MODERATED POSTERS

Moderated Poster

Moderated Poster Session IV - Physical Activity/Sports Cardiology

Chairpersons: A. Pressler (Muenchen, DE); S. Caselli (Rome, IT)

Posters are on display in the poster area from 08:30 until 18:00.

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.

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|--|-----|
| Coronary artery anomalies: the experience of the sports medicine and physical exercise unit of treviso.
<i>T. Vessella, C. Pegoraro, L. Merlo, P. Sarto (Treviso, IT)</i> | 369 |
| Pathophysiological mechanisms of non-cardiac syncope in athletes
<i>G. Christou, E. Kouidi, M. Anifanti, P. Sotiriou, N. Koutlianos, A. Deligiannis (Thessaloniki, GR)</i> | 370 |
| The additional value of including ECG assessment in pre-participation screening in athletes: analysis of a large national cohort
<i>N.M. Panhuyzen-Goedkoop, A. Verbeek, H.T. Jorstad, W. Lemmens, A.A.M. Wilde, R.J.G. Peters (Amsterdam and Nijmegen, NL)</i> | 371 |
| Improvements in physical activity and physical fitness after extending cardiac rehabilitation with a behavioral group intervention: the OPTICARE randomized controlled trial.
<i>N. Ter Hoeve, M. Sunamura, M.L. Geleijnse, H.J. Stam, E. Boersma, R.T. Van Domburg, H.J.G. - Van Den BergEmons (Rotterdam, NL)</i> | 373 |
| The use of lactate thresholds to individualize accelerometer cutpoints in breast cancer and healthy postmenopausal women. Are we sure of doing enough physical activity?
<i>E. Gil Rey, N. Palacios, J. Ibanez, S. Maldonado-Martin, E. Gorostiaga (Vitoria-Gasteiz and Pamplona, ES)</i> | 374 |
| Is reduced global longitudinal strain a part of the athletes heart, or a marker of disease?
<i>S. Glasius Tischer, N.B. Hoest, E. Prescott, H.K. Rasmussen (Copenhagen, DK)</i> | 375 |

16:30 - 18:00

MASTERCLASS

Auditorium 2

The cardiovascular polypill: practical implementation

Chairpersons: M.L. Lochen (Tromso, NO); H. Voller (Rudersdorf, DE)

This session is organised in the framework of the ESC Prevention of CVD Programme.

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| 16:30 Rationale for the use of the polypill in cardiovascular disease.
<i>D.E. Grabbee (Utrecht, NL)</i> | 376 |
| 16:52 Is the polypill effective in primary prevention? The evidence.
<i>M. Lafeber (Gouda, NL)</i> | 377 |
| 17:15 Is the polypill effective in secondary prevention? The evidence.
<i>V. Barrios (Madrid, ES)</i> | 378 |
| 17:37 Practical implementation of the polypill, current status and future challenges.
<i>J. R. Gonzalez Juanatey (Santiago De Compostela, ES)</i> | 379 |

16:30 - 18:00

SYMPOSIUM

Auditorium 1

Diet, nutrients and cardiovascular disease prevention: novel aspects

Chairpersons: M. Verschuren (Bilthoven, NL); M. Kavousi (Rotterdam, NL)

Newest insights into the role of diet in CVD prevention

- | | |
|--|-----|
| 16:30 Gen diet interactions, obesity and cardiovascular disease risk.
<i>D. S. Thelle (Goteborg, SE)</i> | 380 |
| 16:52 Diet and the microbiome: the next frontier.
<i>M. Troseid (Oslo, NO)</i> | 381 |
| 17:15 From Mediterranean to Nordic diet: CVD protection with an eco-friendly paradigm.
<i>D. B. Panagiotakos (Athens, GR)</i> | 382 |
| 17:37 Impact of overweight and obesity on cardiac benefit of preventive treatment.
<i>To be announced</i> | 383 |

FRIDAY 7 APRIL

Afternoon Scientific Sessions

16:30 18:00

SYMPOSIUM

Conference
room 1.1 - 1.3

Clean air for clean arteries?

Chairpersons: V. Vassiliou (London, GB); M. Goonewardene (Bedford, GB)

To review and appraise the evidence of air pollution as a risk factor for cardiovascular disease To assess the effect of prenatal exposure to air pollution and cardiovascular risk in adulthood To elaborate on potential mechanisms linking air pollution and cardiovascular risk

16:30	Air pollution and the heart: the hidden risk. <i>I. M. Graham (Wicklow, IE)</i>	384
16:52	Can we prevent strokes by reducing air pollution? <i>A. Santurtun (Santander, ES)</i>	385
17:15	Effect of smoke-free policies to reduce passive smoking. <i>To be announced</i>	386
17:37	Banning diesel cars from city centres: will we see a benefit? <i>A.D.A.M. Vaughan (York, GB)</i>	387

16:30 - 18:00

YOUNG INVESTIGATORS AWARD

Conference
room 1.4 - 1.6

Young investigator award session IV - Cardiac Rehabilitation

Chairpersons: P. Doherty (York, GB); A. Abreu (Lisbon, PT)

Judge(s): M.C. Iliou (Issy Les Moulineaux Cedex, FR); M. Ambrosetti (Cunardo, IT); R. Belardinelli (Ancona, IT);

D.R.M.J. Hansen (Hasselt, BE)

Six abstracts have been 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.

16:30	The detrimental impact of dropout in cardiac rehabilitation on outcome among coronary artery disease patients <i>S. Pardaens, A.M. Willems, D. De Smedt, E. Clays, M. Vanderheyden, J. De Sutter (Ghent and Aalst, BE)</i>	388
16:45	Predictors of major adverse cardiovascular events after cardiac rehabilitation: a long term follow up study <i>S. Doimo, P. Maras, G. Barbat, G. Sinagra (Trieste, IT)</i>	389
17:00	Impact of cardiac rehabilitation on the obstructive sleep apnoea in the coronary artery disease <i>D. Hupin, V. Pichot, D. Maudoux, E. Sforza, J.C. Barthelemy, F. Roche (Saint Etienne, FR)</i>	390
17:15	Home-based cardiac rehabilitation as an alternative to centre-based cardiac rehabilitation: Economic evaluation of the FIT@Home study <i>J. J. Kraal, M.E. Van Den Akker-Van Marle, A. Abu-Hanna, W. Stut, N. Peek, H.M.C. Kemps (Amsterdam, Leiden, Eindhoven and Veldhoven, NL; Manchester, GB)</i>	391
17:30	A retrospective analysis of factors influencing the uptake of cardiac telerehabilitation in patients with coronary artery disease. <i>R. W. F. H. Kuijpers, R.W.M. Brouwers, H.M.C. Kemps (Veldhoven, NL)</i>	392
17:45	The 2 minute step test: a reliable and valid alternative to the 6 minute walk test in measuring aerobic capacity of older adults post coronary revascularisation <i>J. L.J. Chow, S. Tony, Y. Chow, D. Tan, S. Rand, C. Fitzgerald (Singapore, SG; London, GB)</i>	393

FRIDAY 7 APRIL

Poster Session

08:30 - 18:00

POSTER SESSION II

Poster session

Posters to be on display between 08:30 - 18:00

Poster viewing tours and discussion questions: during coffee breaks from 10:00 - 11:00 and 15:30 - 16:30. Presenters are required to be by their poster for each break in order to discuss the poster with the audience.

Poster removal 18:00 - 18:30

Diabetes/ Lipids/Obesity/Nutrition_Part I

Diabetes/ Lipids/Obesity/Nutrition_Part I 394
Poster discussant: K. Clarke (Oxford, GB)

Peculiarities of heart rate in the patients with acute coronary syndrome and concomitant diabetes mellitus type 2 395

H. Kyyak, V. Skybchyk, Y. Kyyak (Lviv, UA)

Diabetic cardiovascular neuropathy as marker of risk in diabetic cardiac patients 396

M.E. Zambrano Medina, F.E. Mesa Prado, G. Rosas Cervantes, A. Valle Alberca, F. Ruiz Mateas, S. Lopez Tejero, J.R. Siles Rubio (Marbella, ES)

Glycemic control as prognostic factor in patients hospitalized for major cardiovascular events 397

M.E. Zambrano Medina, P.A. Chinchurreta Capote, F.E. Mesa Prado, J.R. Siles Rubio, A. Valle Alberca (Marbella, ES)

Compensation of diabetes mellitus and the functional activity of platelets 398

A.M. Vorobe, V.I. Ruzov, E.V. Shipanova, M. Mulenga, E.N. Altynbayeva, M.N. Goryachaya (Ulyanovsk, RU)

Association between subclinical atherosclerosis and hyperlipidemia in patients with diabetes mellitus type 2 399

R.S. Gavril, L.I. Arhire, L. Mihalache, M.M. Leon-Constantin, A. Jitaru, O. Mitu, T.F. Vasiliu, A. Gherasim, F. Mitu (Iasi, RO)

Use of IISGLT2 in Diabetes Mellitus type 2 and heart failure 400

J. Morgado, J.R.G. Jessica Roa Garrido, M.T.M.S. Maria Teresa Moraleda Salas,

A.B.P.M.P. Ana Blanca Paloma Martinez Perez, J.F.D.F. Jose Francisco Diaz Fernandez (Huelva, ES)

Elaboration of a protocol for the evaluation, integral treatment and follow up of patients with diabetes that 401

suffered an acute ischaemic event in a public hospital in Spain

S. Blasco, A.I. Jimenez, F.J. Camacho, I. Lobo, C. Collado, P. Gonzalez, J.A. Sanchez Brotons, I. Perez, C. Ayala,

F.J. Morales (Puerto Real, ES)

Diabetes/ Lipids/Obesity/Nutrition_Part 2

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Atrial fibrillation preventive effect of n3 polyunsaturated fatty acids in patients with hypertension 403

S. Okamoto, H. Iwasaki (Tsu, Mie, JP)

High rate of achievement of target values in LDLcholesterol reduction through cardiac rehabilitation in 404

patients with acute coronary syndrome

B. Schwaab, U. Zeymer, C. Jannowitz, A. Gitt (Timmendorfer Strand, Ludwigshafen and Haar, DE)

Predictors of non-coronary atherosclerosis progression one year after coronary surgery 405

A. Bezdenezhnykh, A.N. Sumin, Y.V. Kazachek, A.V. Osokina, N.V. Kondrikova, Y.V. Bayrakova,

S.V. Ivanov, O.L. Barbarash (Kemerovo, RU)

Benefit of the PCSK9 inhibitor evolocumab in patients undergoing lipid apheresis 406

K.P. Mellwig, D. Horstlotte, F. Van Buuren (Bad Oeynhausen, DE)

Control of lipid risk factors in high risk individuals 407

N. Gotcheva, B. Georgiev (Sofia, BG)

Role of nonHDL as the target for lipid management in secondary prevention and its relation to clinical events. 408

L. Alvarez Roy, T.F. Benito Gonzalez, M. Rodriguez Santamarta, E. Martinez Paz, C. Lezcano Pertejo, N. Rojo Prieto,

S. Del Castillo Garcia, M. Ascencia Lemus, I. Iglesias Garriz, F. Fernandez-Vazquez (Leon, ES)

Gender differences in high-density lipoprotein cholesterol quantity among middle-aged lithuanian adults 409

S. Kutkiene, Z. Petruilioniene, A. Laucevicius, A. Saulyte, J. Staigyte, E. Rinkuniene, V. Dzenkeviciute (Vilnius, LT)

Back to baseline: validation of an equation to estimate baseline low-density lipoprotein levels in treated 410

familial hypercholesterolemia patients

J.S. Daigle, N. Giacomantonio (Halifax, CA)

FRIDAY 7 APRIL

Poster Session

Outpatient low density lipoprotein control who does it better? <i>M. Abela, J. Bonella, C. Zammit, M. Farrugia, J. Grech, C. Bondin, L.M. Grech, C.J. Magri, R.G. Xuereb (Msida, MT)</i>	411
Vasoprotective effects of prolonged highdose therapy with atorvastatin in patients with very high risk <i>L. Salyamova, A. Khramova, V. Oleinikov (Penza, RU)</i>	412
Trends in cardiovascular risk factors among middle aged lithuanian adults with different high-density lipoprotein cholesterol levels <i>S. Kutkiene, Z. Petrulioniene, A. Laucevicus, A. Saulyte, J. Staigyte, E. Rinkuniene, V. Dzenkeviciute (Vilnius, LT)</i>	413
Reduction of LDL and Lp (a) under the PCSK9 inhibitor Evolocumab/Alirozumab in patients with familial hypercholesterolemia or manifest atherosclerosis <i>M. Poudel, D. Stoyanova, F. Van Buuren, D. Horstkotte, K.P. Mellwig (Bad Oeynhausen, DE)</i>	414
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Malnutrition is a principal factor for cardiovascular diseases among the youth of the Altai Territory <i>V. Dekhar, A. Osipov, L. Makarova, D. Denisova, I. Osipova, T. Repkina (Barnaul and Novosibirsk, RU)</i>	416
Cardiovascular protection by dietary epicatechin <i>M. Marinka, G. Jankovic, D. Nenezic, I. Stojanovic, P. Milojevic, V. Kanjuh, Q. Yang, G.W. He, A. Novakovic (Belgrade, RS; Hong Kong, HK; Tianjin, CN)</i>	417
Dietary antioxidant potential and polyphenol intake, and prevalence of metabolic syndrome in Polish adults of the WOBASZ II study <i>M.E. Zujko, A.M. Witkowska, A. Waskiewicz, D. Szczesniewska, M. Kwasniewska (Bialystok, Warsaw and Lodz, PL)</i>	418
Pressureoverload cardiac hypertrophy is prevented but not reversed by omega3 fatty acids in the rat, at low dietary intakes achievable by a usual human diet. <i>P.L. McLennan, R. Henry, G.E. Peoples (Wollongong, AU)</i>	419
Anxiety levels moderate the protective effect of dark chocolate polyphenol intake against metabolic syndrome <i>D.D. Mellor, E. Georgousopoulou, N. Naumovski, D. B. Panagiotakos, C. Chrysohoou, A. Zana, D. Tousoulis, C. Stefanadis, C. Pitsavos (Canberra, AU; Athens, GR)</i>	420
Validation of a literaturebased adherence score to Mediterranean diet: the MEDILITE score <i>M. Dinu, G. Pagliai, A. Casini, F. Sofi (Florence, IT)</i>	421
The activeness of cytokine inflammation and body weight in patients undergoing coronary revascularization <i>A. Vorobei, L.G. Komarova, V.I. Ruzov, E.N. Altynbaeva, M.N. Goryachaya (Ulyanovsk, RU)</i>	422
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Obesity prevention in adolescents <i>L. Rychkova, E. Sheneman, O. Bugun, Z.H. Ayurova, T. Bairova, A. Pogodina, V. Balzhieva (Irkutsk, RU)</i>	424
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Determination of the obesity status of patients who came a family health center in Turkey <i>Y. Arpacioğlu, S. Oğuz, G. Camci (Istanbul, TR)</i>	427
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FRIDAY 7 APRIL

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Knowledge of risk factors for coronary arteriosclerosis, their prevalence and physical activity in young students of medicine. <i>J. Piotrkowicz, J. Dabek, P. Skorus, Z. Gasior (Katowice, PL)</i>	554
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Positive impact on the quality of life questionnaire parameters before and after starting a community based healthy lifestyle <i>S. Mejia Viana, S. Nieminen, E. Kettunen (Gibraltar, Gf; Fuengirola, ES)</i>	556
Myocardial bridging as a cause of myocardial infarction <i>P. Pimentel, J.A.S.L. Leivas, A.D. Azmus, E.C. Pedroso, K.K. Puls (Porto Alegre, BR)</i>	557
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The influence of female gender on in-hospital mortality of patients with ST-segment elevation myocardial infarction treated by primary percutaneous intervention <i>I. Ivanov, A. Vulin, M. Cankovic, M. Jarakovic, J. Dejanovic, S. Bjelic, T. Popov (Sremska Kamenica, RS)</i>	562

FRIDAY 7 APRIL

Poster Session

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Cardiovascular risk in patients with chronic kidney disease nondiabetic origin: possibility of statin therapy K.H. SemegenBadak, T. Solomenchuk, V. Badak (Lviv, UA)	565
Changes in heart rate during septoplasty with local anesthesia I.V. Kastyro, V.I. Popadyuk, V.I. Torshin (Moscow, RU)	566
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Risk factors: others_Part 3	567
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Correlation between pulmonary function, functional capacity and peripheral muscle strength in pre and post menopausal women with low bone mineral density S. N. Ozturk, R. Demir, N. Sakalli, S. Tuzun (Istanbul, TR)	568
Fractures risk factors analysis in patients with myocardial infarction and coronary atherosclerosis O.I. Nishkumay, I.A. Kordubailo, O.A. Atamanenko, Z.V. Lysak, E.I. Levenko, K.I. Cherniayeva, S.M. Dubynska, A.A. Kovalenko, O.I. Rokyta, N.V. Shyshkina (Kiev, UA)	569
Translation and validation of the turkish version of the acute coronary syndrome response index M. Yildiz, N. Enc (Istanbul, TR)	570
A rare case of accelerated atherosclerosis with fatal ending a five month after cardiac bypass surgery S. Stevovic, I. Burazor, M. Ljubic (Belgrade, RS)	571
Coronary artery disease in patients with metabolic syndrome A. Veseli, E. Demiri, J. Seiti, S. Kabili, H. Gjergo, E. Petrela, M. Lezha (Tirana, AL)	572
An extended one-dimensional arterial network model for the simulation of pressure and flow in upper and lower limb extremities H. Obeid, N. Stergiopoulos, M. Hallab, P. Boutouyrie, S. Laurent, P. Segers (Ghent, BE; Lausanne, CH; Nantes and Paris, FR)	573
The relationship between body mass and some components of emotional intelligence in patients with arterial hypertension G. Andreeva, D. Lyusin, V. Gorbunov, O. Mochanova, A. Deev (Moscow, RU)	574
Two cohort of women. Comparison. Z. Gasimov, E. Abiyeva, D. Safarova, A. Bakshaliyev (Baku, AZ)	575
A study of the relationship between type of anesthesia and heart rate variability after tonsillectomy I.V. Kastyro, M.V. Ilyinskaya, V.I. Popadyuk, O.A. Shevelev (Moscow, RU)	576
Smoking among high and very high risk population B. Georgiev, N. Gotcheva, V. Baytcheva, D. Gotchev (Sofia, BG)	577
Is the ability to remain tobacco abstinence on given quit attempts harder among treatment-seekers than among other smokers? M. Broszkiewicz, W. Drygas, W. Drygas (Lodz and Warsaw, PL)	578
The relapse curve and long-term abstinence among treatment-seeking smokers M. Broszkiewicz, W. Drygas, W. Drygas (Lodz and Warsaw, PL)	579
Clinical and epidemiological considerations on the development of left ventricular hypertrophy in smokers patients with normal blood pressure values A. Jitaru, M.M. Leon-Constantin, R.S. Gavril, O. Mitu, F. Mitu (Iasi, RO)	580
Understanding hookah smoking behaviors among non current cigarettes smokers: Implications for prevention programs N. F. Eshah, E.S. Froelicher (Zarqa, JO; California San Francisco, US)	581
The prevalence of cigarette smoking and knowing status for diseases caused by smoking among university students S. Oguz, M. Kazan, G. Camci (Istanbul, TR)	582
Ethnic differences in smoking prevalence in the three countries: Russia, Kyrgyzstan, Kazakhstan A.V. Kontsevaya, A.O. Myrzamatova, A.T. Altymysheva, A.G. Polupanov, Y.K. Iskakov, A.K. Kashirin, K.A. Alikhanova, A.N. Halmatov, Y.A. Balanova (Moscow and Samara, RU; Bishkek, KG; Karaganda, KZ)	583

SATURDAY 8 APRIL

Morning Scientific Sessions

08:30 - 10:00

SPECIAL SESSION

Auditorium 2

The year in preventive cardiology

Joint session with the *European Heart Journal* and the *European Journal of Preventive Cardiology*.

Chairpersons: *U. Landmesser (Berlin, DE); M. F. Piepoli (Piacenza, IT)*

08:30	Introduction: The ESC Journal Family on the move. <i>U. Landmesser (Berlin, DE)</i>	584
08:45	Nutrition and non-pharmacological measures. <i>M. Verschuren (Bilthoven, NL)</i>	585
09:00	A breakthrough in lipid therapy: from statins to PCSK9 inhibitors. <i>U. Landmesser (Berlin, DE)</i>	586
09:15	Hypertension: from drugs to devices. <i>U. Landmesser (Berlin, DE)</i>	587
09:30	Diabetes: another breakthrough in prevention. <i>C.H. Saely (Feldkirch, AT)</i>	588
09:45	Closing remarks. <i>M. F. Piepoli (Piacenza, IT)</i>	589

08:30 - 10:00

SYMPOSIUM

Auditorium 1

Detection of subclinical atherosclerosis

Chairpersons: *P. A. F. M. Doevendans (Utrecht, NL); U. Nixdorff (Duesseldorf, DE)*

08:30	Early detection of CVD: which imaging method can be recommended? <i>U. Nixdorff (Duesseldorf, DE)</i>	590
08:52	Assessing CVD risk and screening for subclinical CVD in diabetes <i>N. D. Wong (Irvine, US)</i>	591
09:15	Does gender influence the approach of early atherosclerosis detection? <i>Y. Appelman (Amsterdam, NL)</i>	592
09:37	What's the value of biomarkers? <i>H. Boersma (Rotterdam, NL)</i>	593

08:30 - 10:00

SYMPOSIUM

Conference room I.1 - I.3

Social inequalities in cardiovascular disease and prevention

Chairpersons: *L. Palmieri (Rome, IT); M.L. Lochen (Tromsø, NO)* *To know the prevalence and factors*

08:30	Bad neighbors: association of cardiovascular risk factors with borough socioeconomic level. <i>To be announced</i>	594
08:48	Association between socioeconomic status and cardiovascular disease. <i>To be announced</i>	595
09:06	Cardiovascular disease incidence and survival: Are migrants always worse off? <i>C. O. Agyemang (Amsterdam, NL)</i>	596
09:24	Trends in cardiovascular risk factors across levels of education in an Arctic population: Is the educational gap increasing? <i>A. E. Eggen (Tromsø, NO)</i>	597
09:42	Diabetes in South Asians Migrants. <i>J. Gill (Glasgow, GB)</i>	598

SATURDAY 8 APRIL

Morning Scientific Sessions

08:30 - 10:00

SPECIAL SESSION

Conference
room 1.4 - 1.6

New developments in the field of Preventive Cardiology

Sharing the experience, discussing the innovations

Chairpersons: D.E. Grobbee (Utrecht, NL); F. D'Ascenzi (Siena, IT)

Dynamic format of exchange with experts and the entire audience through the presentation of the most relevant and novel topic in Preventive Cardiology. Each presentation is followed by discussions led by senior experts focusing on experience and innovative approaches.

08:30	Cardiac rehabilitation after TAVI or aortic replacement: a different matter? S. Eichler (Potsdam, DE)	599
08:42	Discussion: Cardiac rehabilitation after TAVI or aortic replacement: a different matter? J.P. Schmid (Barmelweid, CH)	600
08:52	New developments in the field of preventive cardiology. P. E. Adami (Rome, IT)	601
09:04	Discussion: New developments in the field of preventive cardiology. A. Pelliccia (Rome, IT)	602
09:14	The significance of myocardial scars and implications for sports participation. F. Schnell (Rennes, FR)	603
09:26	Discussion: The significance of myocardial scars and implications for sports participation. M. Papadakis (London, GB)	604
09:36	Young adults with hypertension: early makers of cardiovascular dysfunction. M. Simonenko (Saint Petersburg, RU)	605
09:48	Discussion: Young adults with hypertension: early makers of cardiovascular dysfunction. P. Leeson (Oxford, GB)	606

10:00 - 11:00

MODERATED POSTERS

Moderated
Poster Area

Moderated Poster Session V Risk factors: others

Chairpersons: To be announced

Posters are on display in the poster area from 08:30 until 12:30.

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.

Cardiac high energy phosphate metabolism predicts cardiac function and performance M. Nathania, K. Hollingsworth, J. Scragg, G.A. Macgowan, M.I. Trenell, D. Jakovljevic (Newcastle upon Tyne and Chalfont St Giles, GB)	607
The Dutch fast-food environment and the incidence of individual-level cardiovascular disease and its subtypes I. Vaartjes, M.M. Strak, M.L. Bots, G. Hoek, M. Dijst, C. Koopman, M. Poelman (Utrecht, NL)	608
Factor VII Activating Protease is associated with extent and progression of coronary artery disease in women R. Ramanathan, J. Gram, N.P.R. Sand, A.C.P. Diederichsen, B.L. Noergaard, F. Vitthum, H. Schwarz, J. Sidelmann (Esbjerg, Odense and Aarhus, DK; New York, US; Marburg, DE)	609
Additional protective effect of Mediterranean diet and physical activity combination on the 10 year Acute Coronary Syndrome (ACS) prognosis. V. Notara, D. B. Panagiotakos, M. Kouvari, Y. Kogias, P. Stavropodis, G. Papanagnou, S. Zombolos, Y. Mantas, C. Pitsavos (Athens, GR)	610
The role of discretionary and hidden salt intake on 10 year acute coronary syndrome prognosis; the Hellenic Heart Failure study. M. Kouvari, C. Chrysohoou, P. Aggelopoulos, S. Iosifidis, A. Filippou, I. Kotsiopoulou-Xaritou, M. Konstantopoulou, E. Tsiamis, D. Tousoulis (Athens, GR)	611
The moderating role of Mediterranean diet on 10 year acute coronary syndrome prognosis of heart failure patients; the Hellenic Heart Failure study. M. Kouvari, C. Chrysohoou, P. Aggelopoulos, A. Filippou, S. Iosifidis, M. Konstantopoulou, I. Kotsiopoulou-Xaritou, E. Tsiamis, D. Tousoulis (Athens, GR)	612
Optimal lifestyle advice and medical therapy at discharge predict survival in patients with peripheral artery disease B. Jug, E.K. Merzel, A. Milanovic, M. Novakovic, Z. Fras (Ljubljana, SI)	613
Cardiovascular risk after prophylactic salpingo-oophorectomy in patients with genetic risk of cancer E.R. O'Brien, N. Maarouf, Z. Batulan, C. Shi, Y.X. Chen, L. Belland (Calgary, CA)	614

SATURDAY 8 APRIL

Morning Scientific Sessions

11:00 - 12:00 SYMPOSIUM Auditorium 2

Physical activity monitoring, current status and future perspectives

Chairpersons: P. Dendale (Hasselt, BE); M. Abeytua Jimenez (Madrid, ES)

- | | | |
|-------|---|-----|
| 11:00 | Pedometer-based walking activity monitoring in cardiovascular disease, the evidence.
C.B. Thorup (Aalborg, DK) | 615 |
| 11:20 | Prerequisites for a medical app.
L. Grieten (Genk, BE) | 616 |
| 11:40 | Physical activity monitoring: future perspectives.
A. Mischie (Montlucon, FR) | 617 |

11:00 - 12:00 SYMPOSIUM Auditorium 1

Innovative approaches in exercise assessment and exercise rehabilitation in CHD

Chairpersons: M. Sanz (Barcelona, ES)

- | | | |
|-------|--|-----|
| 11:00 | Novel methods to investigate exercise pathophysiology in CHD and PAH
G. E. Pieles (Bristol, GB) | 618 |
| 11:15 | Exercise prescription and education pathways in paediatric patients with CHD
C.A. Williams (Exeter, GB) | 619 |
| 11:30 | Gamification approaches in exercise rehabilitation in paediatric CHD
A. G. Stuart (Bristol, GB) | 620 |

11:00 - 12:00 SYMPOSIUM Conference room 1.1 - 1.3

"Feeling better, being better" The HeartQoL questionnaire

Chairpersons: A. Abreu (Lisbon, PT); D.A.O. De Bacquer (Ghent, BE)

To update participants on health-related quality of life (HRQL) in patients with coronary heart disease with a focus on the HeartQoL questionnaire

- | | | |
|-------|--|-----|
| 11:00 | HeartQoL: an update.
N. B. Oldridge (Glendale, US) | 621 |
| 11:15 | Validity of the HeartQoL questionnaire.
S. Hoefler (Innsbruck, AT) | 622 |
| 11:30 | HeartQoL and cardiovascular risk profile: EUROASPIRE IV.
D. De Smedt (Gent, BE) | 623 |
| 11:45 | Health-related quality of life assessment in cardiac rehabilitation: evidence and minimal standards.
H. Saner (Starkirch-Wil, CH) | 624 |

11:00 - 12:00 SYMPOSIUM Conference room 1.4 - 1.6

Rehabilitation works: the need for meta-analysis

Chairpersons: P. Doherty (York, GB); D.E. Grobbee (Utrecht, NL)

- | | | |
|-------|---|-----|
| 11:00 | Exercise-based cardiac rehabilitation for CAD: an update of the Cochrane review.
R. S. Taylor (Exeter, GB) | 625 |
| 11:15 | Longer-term effects of home-based exercise interventions in CAD patients.
J. Claes (Leuven, BE) | 626 |
| 11:30 | Outcome of a multi-component rehabilitation program in CAD patients: the CROS meta-analysis.
C.H. Davos (Athens, GR) | 627 |
| 11:45 | Pitfalls in evaluating and analysis data from CR publications.
A. Salzwedel (Potsdam, DE) | 628 |

12:15 - 13:00 Special Event Auditorium 1

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 | Announcement: Viviane Conraads outstanding Achievement Award
D.E. Grobbee (Utrecht, NL) |
| 12:30 | 2016 Viviane Conraads Outstanding Achievement Award
J. Sundstrom (Uppsala, SE) |
| 12:50 | EuroPrevent 2018
J.P. Schmid (Barmelweid, CH) |
| 12:55 | Closing
D.E. Grobbee (Utrecht, NL) |

SATURDAY 8 APRIL

Poster Session

08:30 - 12:30

POSTER SESSION III

Poster session

This session is designed to gather together a small group of the top graded posters to encourage discussion and exchange.

Posters to be on display between 08:30 - 12:30

Poster viewing tours and discussion questions: during coffee break from 10:00 - 11:00. Presenters are required to be by their poster for the coffee break in order to discuss the poster with the audience.

Poster removal 12:30 - 13:00

Diabetes/ Lipids/Obesity/Nutrition_Part I

Diabetes/ Lipids/Obesity/Nutrition_Part I 629
 Poster discussant: N. D. Wong (Irvine, US)

ISR treatment with DCB for prevention of recurrent restenosis in diabetic patients: a two centers experience. 630

G. Cimino, G. Andolina, F. Crea, C. Trani, D. Piraino (Palermo and Rome, IT)

Dynamics of parameters of endothelial function in patients with type 2 diabetes according to flow-mediated dilation during the CPAPtherapy 631

N. Burko, L. Salyamova, N. Borisova, V. Oleinikov (Penza, RU)

Investigation of the association of CRP with the 10year (2002-2012) diabetes incidence; the mediating role of central obesity. 632

E. Koloverou, D. B. Panagiotakos, E. Georgousopoulou, A. Laskaris, C. Chatzinikolaou, C. Chrysohou, I. Skoumas,

D. Tousoulis, C. Pitsavos, C. Stefanadis (Athens, GR)

Diabetes/ Lipids/Obesity/Nutrition_Part I 633
 Poster discussant: To be announced

Glycaemic variability and vascular complications in type 2 diabetes mellitus 634

C. J. Magri, D. Mintoff, L. Camilleri, R.G. Xuereb, J. Galea, S. Fava (Msida, MT)

The influence of diabetes on in-hospital mortality of patients with St-segment elevation myocardial infarction treated by primary percutaneous intervention 635

A. Vulin, I. Ivanov, J. Dejanovic, T. Popov, M. Cankovic, M. Jarakovic, S. Bjelic (Sremska Kamenica, RS)

Increased risk of type 2 diabetes is associated with the presence of subclinical atherosclerosis in asymptomatic population 636

O. Mitu, M. Roca, A.O. Petris, R.S. Gavril, L. Arhire, O. Nita, L. Mihalache, A. Gherasim, M. ~ Graur, F. Mitu (Iasi, RO)

Cardiac rehabilitation in patients with ischemic heart disease and diabetes 637

A. Chaucu Tapia, R. Colman Llamozas, T. Bretones Del Pino, L. Gutierrez Alonso, E. Otero Chulian (Cadiz, ES)

Ivabradine added to betablocker bisoprolol improves VO2 exercise capacity and QOL in diabetic patients with systolic heart failure 638

A. Ascione, M. Borgia, E. Attena, M. Aversa, V.M. Parato, R. Sangiulio, F. Ciaramella

(Naples and San Benedetto del Tronto, IT)

Is it possible to improve cardiovascular morbidity with a proper diabetic treatment? 639

S. Blasco, F.J. Camacho, A.I. Jimenez, I. Lobo, C. Collado, E. Martinez De Morentin, P. Gonzalez, J.A. Sanchez Brotos,

I. Perez, F.J. Morales (Puerto Real, ES)

Highintensity statin therapy is too much for the very elderly Asian patients 640

H.Y. Lee (Seoul, KR)

Residual cardiovascular risk in patients with Familial Hypercholesterolemia 641

J.M.H. Galema-Boers, M.J. Lenzen, S. Bos, F.T.W. Groenland, E.J. Sijbrands, J.E. Roe (Rotterdam, NL)

Five years experience of carotid screening during routine and stress echocardiography 642

M. Matangi, D. Armstrong, U. Jurt, M. Cases, D. Brouillard (Kingston, CA)

Tertiary prevention in patients with coronary artery disease and elevated lipoprotein(a) levels 643

R. Gottfried-Kwasniok, J. Gilis-Januszewski, F. Van Buuren, D. Horstkotte, K.P. Mellwig (Bad Oeynhausen, DE)

Real world experience of efficacy and safety using proprotein convertase subtilisin / Kexin 9 (PCSK9) inhibition in patients with Familial Hypercholesterolemia 644

J.M.H. GalemaBoers, K. Steward, S.R. Engelkes, E.J. Sijbrands, J.E. Roeters Van Lennep (Rotterdam, NL)

SATURDAY 8 APRIL

Poster Session

Diabetes/ Lipids/Obesity/Nutrition_Part 2

Diabetes/ Lipids/Obesity/Nutrition_Part 2 645
Poster discussant: To be announced

Comparison between Mediterranean and Vegetarian diets for cardiovascular prevention: the CARDIVEG study 646

M. Dinu, G. Pagliai, A. Mangino, F. Cesari, B. Giusti, R. Marcucci, A. Casini, F. Sofi (Florence, IT)

Relationship between sleep pattern and efficacy of calorie-restricted mediterranean diet in overweight/obese subjects 647

G. Pagliai, M. Dinu, A. Casini, F. Sofi (Florence, IT)

Mediterranean diet, food consumption and risk of late-life depression: the mugello study 648

G. Pagliai, F. Vannetti, S. Caiani, M. Dinu, G. Pasquini, R. Molino Lova, F. Cecchi, S. Sorbi, C. Macchi, F. Sofi (Florence, IT)

Effect of an anti-inflammatory diet on 10 year (2002-2012) cardiovascular disease incidence among healthy adults 649

G. M. Kouli, D. B. Panagiotakos, E. Georgousopoulou, A. Kalogeropoulou, A. Zana, C. Chrysohoou, C. Tsigos, D. Tousoulis, C. Stefanadis, C. Pitsavos (Athens, GR)

Myocardial membrane is modified and ischaemic arrhythmias are prevented by low fish oil dosing in the rat, achievable in a usual human diet 650

M. Macartney, G. Peoples, P. McLennan (Wollongong, AU)

Obesity as one of the major determinants for left atrial phasic dysfunction in post-menopausal women 651

A. Borizanova-Petkova, D. Somleva, E. Kinova, A. Goudev (Sofia, BG)

C-reactive protein, urine albumin, B-type natriuretic peptide, and glomerular filtration rate: 652

Which is the best biomarker for the prediction of cardiovascular events in obese subjects?

K. Sato, Y. Tanaka, K. Tanno, M. Ohsawa, K. Sakata, Y. Ishibashi, S. Omama, A. Okayama, M. Nakamura (Morioka and Tokyo, JP)

The "obesity paradox" in acute coronary syndrome is valid for death developed within 6 month 653

post-discharge period (data of Russian RECORD3 registry)

A.D. Erlikh (Moscow, RU)

Comparison of long-term mortality according to obesity in patients with successful percutaneous chronic 654

total occlusion interventions using drug-eluting stents

K.B. Wan, H.J. Yoon, Y.K. Cho, C.W. Nam, S.H. Hur, S.W. Lee, J.M. Ahn, D.W. Park, S.J. Kang, S.J. Park (Ulsan, Daegu and Seoul, KR)

Metabolic profile in obesity: is age a confounder? 655

M. ~ Boyarinoва, A. Orlov, O. Rotar, A. Konradi, S. Shalnova, A. Deev, Y. Karpov, I. Chazova, S. Boytsov, E. Shlyakhto (St Petersburg and Moscow, RU)

Sickleave in obese workers according to metabolic phenotype. ICARIA study results 656

M.A. ~ Sanchez Chaparro, E. Calvo Bonacho, C. Catalina Romero, M. Cabrera Sierra, C. Fernandez Labandera, L. Quevedo Aguado, P. Valdivielso Felices (Málaga and Madrid, ES)

Epidemiology/ Public health_Part 1

Epidemiology/ Public health_Part 1 657

Poster discussant: C. Graf (Cologne, DE)

Changes in body weight and composition are associated with changes in left ventricular and atrial geometry 658
in the general population

M.R.P. Markus, N. Werner, S. Schipf, M. Bahls, H. Voelzke, S.B. Felix, T. Ittermann, M. Doer (Greifswald, DE)

Differences in measured and self-reported anthropometric data: the Italian Osservatorio Epidemiologico 659
Cardiovascolare/Health Examination Survey 20082012

C. Donfrancesco, L. Palmieri, L. Gargiulo, C. Lo Noce, A. Di Lonardo, S. Vannucchi, D. Vanuzza, S. Giampaoli (Rome and Florence, IT)

Clinical implications of low-to-intermediate trials for primary prevention of atherosclerotic CVD and 660

risk stratification with N-terminal pro-B-type natriuretic peptide in the Rotterdam Study

J. Pavlovic, O. H. Franco, M. J. G. Leening (Rotterdam, NL)

Leisure time physical activity initiated by employer and its health effects. A 15 month follow-up study 661

M. ~ Skogstad, Ø. Skare, L.K. Lunde, B. Ulvestad (Oslo, NO)

SATURDAY 8 APRIL

Poster Session

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N. – Gumanova, A. Deev, S. Shalnova (Moscow, RU)
- The relationship of cardioankle vascular index, visceral obesity and disorders of carbohydrate metabolism according to a study ESSERF in West Siberian region 663
N. Bezdenezhnykh, A.N. Sumin, N.V. Fedorova, A.V. Bezdenezhnykh, A.M. Kochergina, E.V. Indukaeva, G.V. Artamonova, O.L. Barbarash (Kemerovo, RU)
- Trends in risk factors and treatment of acute coronary events between 1998 and 2009 in the city of Ghent, Belgium 664
D. De Smedt, D. De Bacquer, G. De Backer, P. Vannote, L. Vandendaele, W. Alvarado Hernandez, S. Gevaert, K. Van Herck (Ghent, BE)
- A preterm delivery a predictor of chronic hypertension following pregnancy? 665
G. Egeland, S. Skurtveit, S. Sakshaug, A.K. Daltveit, M. Haugen (Bergen and Oslo, NO)
- Atrial fibrillation: prevalence and cross-sectional determinants in a population sample of 9255 participants 666
M. Shapkina, S. Malyutina, A. Ryabikov, E. Mazdorova, D. Denisova, E. Avdeeva, M. Bobak (Novosibirsk, RU; London, GB)
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