



NUCLEAR CARDIOLOGY AND CARDIAC CT

MADRID

SPAIN 3-5 MAY 2015

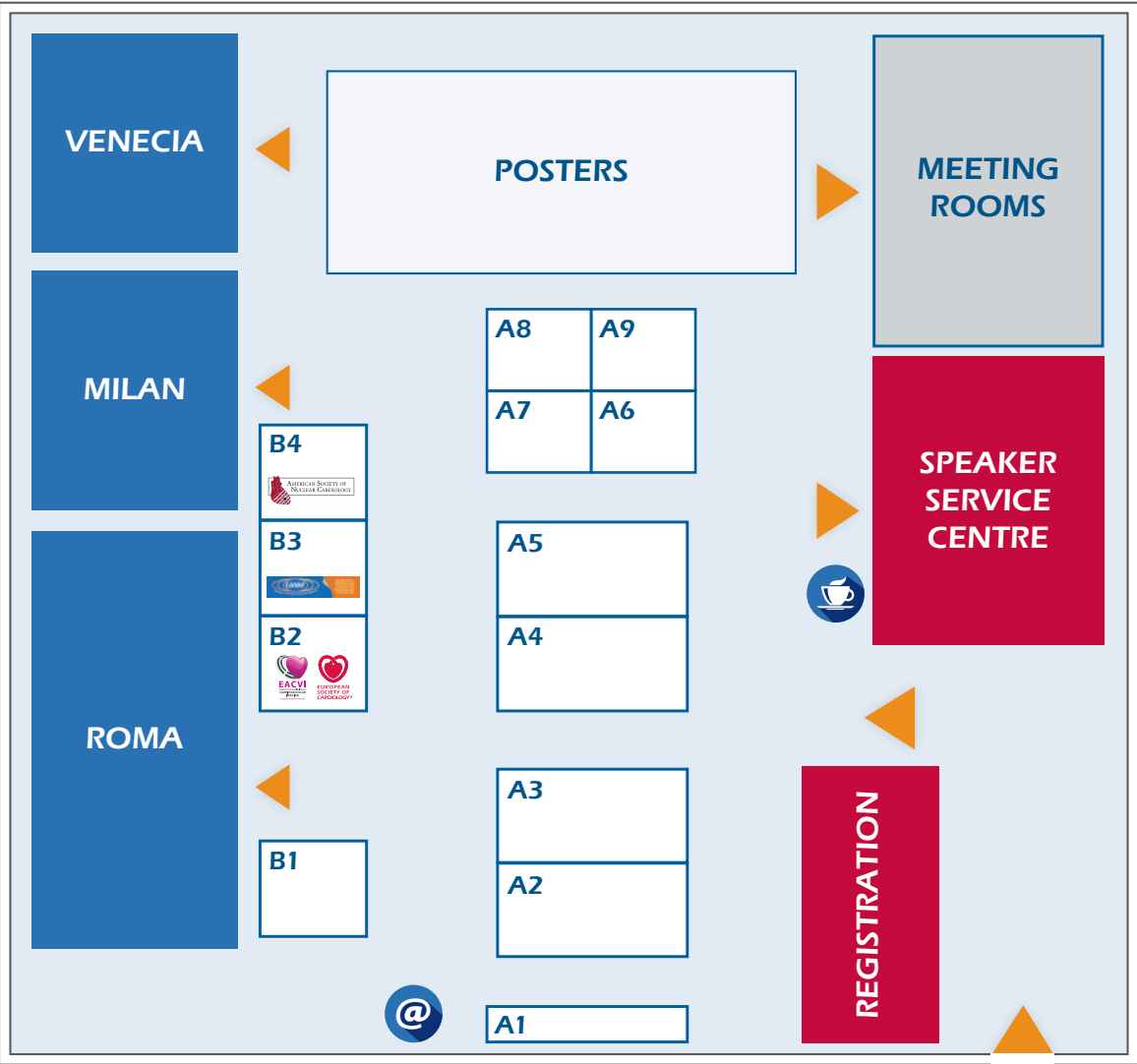
FINAL PROGRAMME



www.icnc12.org



BUILDING FLOOR PLAN



MAIN ENTRANCE

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PROGRAMME AT A GLANCE

SUNDAY 03 MAY 2015			TYPE OF SESSIONS	ROOM
08:30	10:00	Recent trends in nuclear cardiology: technology and practice	Symposium	Roma
		Young Investigator Award Competition	Oral Abstract Session	Milan
		Advanced cardiac imaging with PET	Read with the Experts	Venecia
10:00	11:00	Clinical Case session I	Clinical Cases	Venecia
		Moderated Poster session 1	Moderated Posters	Moderated Poster
11:00	12:30	Recent trends in cardiac CT: technology and practice	Symposium	Roma
		Advances in cardiac PET	Symposium	Milan
		Cases from conventional and novel cardiac CT technology	Read with the Experts	Venecia
12:35	13:50	Non-invasive cardiac imaging: case studies Sponsored by Rapidscan Pharma Solutions EU Ltd	Satellite Symposium	Venecia
14:00	15:30	How to perform state of the art advanced myocardial perfusion imaging?	How-to Session	Roma
		Important clinical trials and registries in nuclear cardiology and cardiac CT I	Symposium	Milan
		Advanced SPECT and CT using novel technology	Read with the Experts	Venecia
15:30	16:30	Moderated Poster session 2	Moderated Posters	Moderated Poster
16:15	17:45	Cardiac CT: coronary arteries and beyond	Symposium	Roma
		Multi-modality cardiovascular molecular imaging applications	Symposium	Milan
		How to deal with discordant test results	Read with the Experts	Venecia
08:30	18:00	Poster session 1	Poster Session	Poster Area
18:00	19:05	Inaugural session	Special Event	Roma
MONDAY 04 MAY 2015			TYPE OF SESSIONS	ROOM
08:30	10:00	Novel clinical applications of nuclear cardiology	Symposium	Roma
		Translational radiotracers for nuclear cardiology	Symposium	Milan
		Radionuclide imaging in heart failure	Read with the Experts	Venecia
10:00	11:00	Clinical Case session II	Clinical Cases	Venecia
		Moderated Poster session 3	Moderated Posters	Moderated Poster Area
11:00	12:30	Role of nuclear cardiology and cardiac CT in assessing prognosis	Symposium	Roma
11:00	12:30	Important clinical trials and registries in nuclear cardiology and cardiac CT II	Symposium	Milan
		Quantitative myocardial perfusion imaging: new developments and future directions	Symposium	Venecia
12:35	13:35	The role of nuclear cardiology in optimizing diagnosis and risk assessment in heart failure patients Sponsored by GE Healthcare	Satellite Symposium	Venecia
14:00	15:30	All about stress agents, protocols and reporting	Symposium	Roma
		Nuclear cardiology and cardiac computed tomography: imaging-guided therapy	Symposium	Milan
		Cases from conventional and novel nuclear cardiology technology	Read with the Experts	Venecia
15:30	16:30	Moderated Poster session 4	Moderated Posters	Moderated Poster
		Multi-modality non-invasive imaging of myocardial viability: current techniques and future developments	Symposium	Roma
		Hybrid PET/MR cardiovascular imaging: promise and potential	Symposium	Milan
		Advances in cardiac CT	Symposium	Venecia
08:00	18:00	Poster session 2	Poster Session	Poster Area
TUESDAY 05 MAY 2015			TYPE OF SESSIONS	ROOM
08:30	10:00	How to assess chest pain in the emergency room	How-to Session	Roma
		The vulnerable plaque: visualisation with cutting edge imaging techniques	Symposium	Milan
		Advanced imaging in difficult cases: a global perspective	Read with the Experts	Venecia
10:00	11:00	Moderated Poster session 5	Moderated Posters	Moderated Poster
11:00	12:30	Advanced imaging in cardiac sarcoidosis	Symposium	Roma
		Imaging to guide electrophysiological procedures	Symposium	Milan
		SPECT and PET MPI special populations	Read with the Experts	Venecia
08:30	12:30	Poster session 3	Poster Session	Poster Area

CONGRESS TIMETABLE



	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00
	7:30	8:30	9:30	10:30	11:30	12:30	13:30	14:30	15:30	16:30	17:30	18:30	19:30	
SATURDAY 02/05/2015										Speaker Service Centre				
SUNDAY 03/05/2015		Registration												
		Speaker Service Centre												
		Exhibition												
		Scientific Sessions	Moder. Posters	Scientific Sessions	Satellite	Scientific Sessions	Moder. Posters	Scientific Sessions	Inaugural Session	Networking Reception				
		Poster Session												
			Coffee Break			Lunch Break			Coffee Break					
MONDAY 04/05/2015		Registration												
		Speaker Service Centre												
		Exhibition												
		Scientific Sessions	Moder. Posters	Scientific Sessions	Satellite	Scientific Sessions	Moder. Posters	Scientific Sessions						
		Poster Session												
			Coffee Break			Lunch Break			Coffee Break					
TUESDAY 05/05/2015		Registration												
		Speaker Service Centre												
		Exhibition												
		Scientific Sessions	Moder. Posters	Scientific Sessions										
		Poster Session												
			Coffee Break											
	7:30	8:30	9:30	10:30	11:30	12:30	13:30	14:30	15:30	16:30	17:30	18:30	19:30	
	7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00

WELCOME ADDRESS

Dear Colleagues and Friends,

Welcome to ICNC12, the key International Conference on Nuclear Cardiology and Cardiac CT. The ICNC meeting has now been an international scientific event for over 20 years.

Biennially, it provides the opportunity for practitioners from all over the world to gather to learn about new advances and to exchange scientific ideas and experiences in a unique environment.

At the heart of every congress is the scientific programme, the main reason why people get together to meet, exchange ideas and learn. ICNC12 has an exciting and comprehensive scientific programme, offering a full spectrum of opportunities, from continuing education to presentations of new and original scientific research.

ICNC12 will present a wide array of topics related to the fields of Nuclear Cardiology, Cardiac CT, PET & SPECT technologies. This year's programme will concentrate on novel applications, new developments, recent trends, state of the art and future applications in the whole field of Nuclear Cardiology and cardiac CT.

We also have a diverse selection of industry partners attending the congress, bringing with them examples of cutting edge technology, medical advancements and the latest updates for attendees. Visit the exhibition area to see all of these fascinating developments.

Our host city is Madrid, the capital of Spain, chosen not just for its historic neighborhoods and fascinating culture, but for its strength in terms of their full use of multi-modalities in public and private hospitals.

We hope that you will enjoy your time in Madrid, and that you are able to make the most of all the opportunities that the congress brings you to learn and share. Welcome delegates, and thanks to all of you who are here with us in Madrid.

Frank Bengel & Rob Beanlands

Co-Chairpersons, ICNC12 Organising Committee



ORGANISING COMMITTEE

Frank Bengel, DE - Organising Co-Chair

Robert Beanlands, CA - Organising Co-Chair

PROGRAMME COMMITTEE

Sharmila Dorbala, US - Programme Chair

Anastasia Kitsiou, GR - Programme Chair

Arthur Scholte, NL - Programme Chair

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Wanda Acampa, IT

Stephan Achenbach, DE

Ron Blankenstein, US

Ben Chow, CA

Robert De Kemp, CA

Gordon DePuey, US

Vasken Dilsizian, US

Andrew Einstein, US

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Oliver Gaemperli, CH

Madalina Garbi, UK

Senta Graf, AU

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Tomoaki Nakata, JP

Danilo Neglia, IT

Stephan Nekolla, DE

Koen Nieman, NL

Donna Polk, US

Thomas Schindler, US

Leslee Shaw, US

Piotr Slomka, US

Paola Smanio, BR

Prem Soman, US

Nagara Tamaki, JP

Holger Thiele, DE

Randy Thompson, US

Peter Tilkemier, US

Heikki Ukkonen, FI

Hein Verberne, NL

Samuel Wann, US

ADVISORS TO THE PROGRAMME COMMITTEE

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J. Bax, NL

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J. Vitola, BR

J. Vom Dahl, DE

F. Wackers, US

K. Williams, US

N. Zafrir, IL

J.L. Zamorano, ES

B. Zaret, US

CONGRESS INFORMATION

VENUE

Hotel Auditorium
Avenida de Aragon 400
28022 Madrid, Spain
Tel: +34 91 400 44 00
www.centrodecongresosprincipelifelipe.com



The building is fully accessible
to disabled people.

CONGRESS ORGANISER

ICNC12
2035 Route des Colles - Les Templiers
CS 80179 BIOT
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Cedex, France

For General Information please contact:

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Email: icnc@escardio.org

CONGRESS OPENING HOURS

	SATURDAY 2 MAY	SUNDAY 3 MAY	MONDAY 4 MAY	TUESDAY 5 MAY
Registration	-	07:30 - 18:00	07:30 - 18:00	07:30 - 12:30
Scientific Session	-	08:30 - 18:00	08:30 - 18:00	08:30 - 12:30
Speaker Service Centre	15:00 - 18:00	07:30 - 18:00	07:30 - 18:00	07:30 - 12:30
Exhibition	-	09:00 - 20:00	08:30 - 18:00	08:30 - 12:30

EUROPEAN ACCREDITATION



ICNC12 is accredited by the European Board for Accreditation in Cardiology (EBAC) and by the European Accreditation Council in CME (EACCME) for 15 hours of external CME credits. EBAC/EACCME credits are also recognised by the American Medical Association towards the Physician's Recognition Award (PRA). Please refer to the AMA website for instructions to convert EACCME Credit to AMA PRA Category 1 Credit™

If you are a delegate attending from North America, please find information concerning how to validate your European CME credits on the American Medical Association (AMA) website: www.ama-assn.org

INAUGURAL SESSION

Sunday 3 May from 18:00 to 19:05

The Inaugural Session will take place in the room Roma and will be followed by a networking reception in the Exhibition area.

ABOUT ICNC12 CO-ORGANISERS

ICNC is organised by the American Society of Nuclear Cardiology (ASNC), the EACVI section on Nuclear Cardiology and Cardiac CT, and The European Association of Nuclear Medicine (EANM)



AMERICAN SOCIETY OF
NUCLEAR CARDIOLOGY

The American Society of Nuclear Cardiology (ASNC)

ASNC, located in Bethesda, Maryland, USA, is committed to excellence in imaging. Representing over 4,500 nuclear cardiologists, radiologists, technologists, scientists, and academics all over the world, ASNC is the leader in the development of established standards of care and guidelines in nuclear cardiovascular imaging. ASNC continuously supports the advancement of the profession through education, research, and advocacy.

Join us in Washington, DC, September 17-20, 2015 for ASNC2015: the 20th Annual Scientific Session of the American Society of Nuclear Cardiology. ASNC2015 will feature unique presentations, debates, and discussions on the latest innovations in the field of nuclear cardiology and cardiovascular imaging.

www.asnc.org/.

For more information about ASNC, please visit www.asnc.org.

Find us on Facebook.com/MyASNC or follow us on Twitter - ASNC2015 meeting Twitter hashtag: #ASNC2015



EACVI
EUROPEAN ASSOCIATION OF
CARDIOVASCULAR
IMAGING
A Registered Branch of the ESC

Created in 2003, the European Association of Cardiovascular Imaging (EACVI), a registered branch of the ESC, is the leading international network in its field.

Mission

To promote excellence in clinical diagnosis, research, technical development, and education in cardiovascular imaging in Europe.

Vision

As one of the three sections forming the EACVI, the Nuclear Cardiology & Cardiac CT Section collaborates with all cardiovascular imaging modalities with a special focus on education, training and scientific initiatives.

Values

The EACVI Nuclear Cardiology and Cardiac CT Section is committed to maintaining the highest standards of professional excellence by providing an innovative educational platform to favour research and education in cardiovascular imaging.

Visit our stand, meet our team and learn more about:

- Membership programme
- EuroEcho-Imaging Congress 2015 (2-5 December – Seville, Spain)
- Educational and Scientific opportunities
- European Heart Journal – Cardiovascular Imaging
- Congresses and courses
- Young doctors programme
- International networking
- Products at the shop
- Research and Training Grants

Next December from 2 to 5, join us in Seville for EuroEcho-Imaging 2015, the world's largest cardiovascular imaging congress. www.escardio.org/EACVI



The European Association of Nuclear Medicine (EANM)

The European Association of Nuclear Medicine is the umbrella organisation of nuclear medicine in Europe and offers:

- A high ranked scientific journal (the European Journal of Nuclear Medicine and Molecular Imaging - EJNMMI)
- Live courses at the EANM Educational Facility in Vienna and e-learning online
- Regular e-Newsletters
- The EANM Research Ltd. (EARL) ensuring quality within Nuclear Medicine by offering an accreditation programme for FDG PET/CT scanners
- An annual congress, the next one taking place in Hamburg 10-14 October 2015

Within the EANM, the Cardiovascular Committee under the Chair of Prof. Marcus Hacker takes care of scientific and professional matters related to the practice of nuclear cardiology in Europe and cooperates with EACVI and ASNC.

If you are interested in further information about the EANM, please visit www.eanm.org

CONGRESS RESOURCES



CERTIFICATE OF ATTENDANCE

Certificates will be available at the Registration desk as from Monday 4 May 2015 in the afternoon.



CONGRESS DAILY NEWS

Get your daily round-up with the latest news in your mailbox every day. Read about scientific highlights of the day, enjoy the scientific articles and other daily news.



INTERNET CORNER

Computers with internet are available in the venue.

Free ICNC12 Wi-Fi will be available in the congress venue.



POSTER AREA

Consult the poster presentation, meet the presenters and exchange on the research.



SPEAKER SERVICE CENTRE

Area dedicated to speaker giving a presentation at the congress.



SPP - SCIENTIFIC PROGRAMME & PLANNER

Prepare and organise your congress attendance, review abstracts online, search the programme by topic, by day, by name.

CONGRESS FACILITIES



CATERING

Coffee breaks will be served in the Exhibition area on Sunday and Monday from 10:00 to 11:00 - from 15:30 to 16:30 and on Tuesday from 10:00 to 11:00. Cash bar is located within the venue.



LANGUAGE

The official language during the congress is English. All lectures and presentations will be held in English only. No translation available.



CLOAKROOM, LOST AND FOUND

Free left luggage and Cloakroom facilities are available. In order to access the Cloakroom, you must have a delegate badge.



FIRST AID

Participants in need of medical treatment should contact ESC congress staff in the Registration area.



NO SMOKING

ICNC12 is a non-smoking event. For the comfort and health of all participants, smoking is strictly prohibited in the building.



POLICE AND SAFETY

Do not hesitate to ask a security guard or ESC staff should you require police assistance.

All bags are subject to inspection. Security guards are present for your safety. Please take all personal effects with you when leaving a lecture room.



VISUAL REPRODUCTION

All visual or audio reproduction is strictly prohibited. Out of respect for presenters and possible copyright issues, you are kindly asked to respect this rule.



Working closely with our industry partners in the field of Nuclear Cardiology and Cardiac CT, the International Conference of Non-Invasive Cardiovascular Imaging will reach the highest standards of scientific content, delegate interest and of course industry participation. A showcase of the latest developments from industry, professional associations and other organisations focused on the nuclear cardiology sector will take place within the congress.

ACKNOWLEDGMENTS

The Committee Members wish to express their sincere appreciation to all exhibitors, industry partners and sponsors mentioned below, who have contributed to the success of ICNC12 in a variety of ways and initiatives.

LIST OF EXHIBITORS

American Society of Nuclear Cardiology	B4
Capintec Inc. (An Eczacıbaşı-Monrol Company).....	A4
European Association of Cardiovascular Imaging (EACVI)	B2
European Association of Nuclear Medicine (EANM)	B3
European Society of Cardiology	B2
GE Healthcare	A7
INVIA Medical Imaging Solutions	A6
Ionetix Corporation	B1
Mallinckrodt Pharmaceuticals	A2
MiE GmbH	A8
Rapidscan Pharma Solutions EU Ltd	A5
Siemens AG Healthcare	A3
Spectrum Dynamics Medical	A9
Wisepress Online Bookshop	A1

Please refer to the Building Floor Plan

COMPANY AND PRODUCT DESCRIPTIONS

American Society of Nuclear Cardiology B4

4340 East-West Highway – Suite 1120 – Bethesda, MD – United States of America
Tel: +1 301 215 7575 – Fax: +1 301 215 7113
Email: info@asnrc.org – Website: www.asnrc.org

The American Society of Nuclear Cardiology located in Bethesda, Maryland USA, is committed to excellence in imaging. ASNC represents over 4,500 nuclear cardiologists, radiologists, technologists, scientists, and academics all over the world and provides its members with a variety of continuing education programs related to nuclear cardiology and cardiovascular computed tomography (CT). ASNC promotes accreditation and certification in nuclear cardiology, establishes standards and guidelines for training and practice and supports the advancement of the profession through education, research, and advocacy.

Join us in Washington, DC, 17-20 September 2015 for ASNC2015: The 20th Annual Scientific Session of the American Society of Nuclear Cardiology. ASNC 2015 will feature unique presentations, debates, and discussions on the latest innovations in the field of nuclear cardiology and cardiovascular imaging.
www.asnrc.org/.

Capintec, Inc. (An Eczacıbaşı-Monrol Company) A4

6 Arrow Road – Ramsey, NJ 07446 – United States of America
Tel: +1 201 825 9500 – Fax: +1 201 825 4829
Email: roy.eve@capintec.com – Website: www.capintec.com

Capintec, Inc. is the leading manufacturer of high quality Nuclear Medicine instrumentation. Capintec, Inc. manufactures, sells and supports a full line of products necessary to set up a state of the art Nuclear Cardiology Lab for SPECT & PET procedures. Capintec products include The CRC Dose Calibrator Line, CAPRAC-T Well Counter, L-Block Shields, Syringe Shields, Lead Lined Cabinetry, Hot Cells, Isolators, Fume Hoods and Laminar Flow Hoods.

An Eczacıbaşı-Monrol Company

European Association of Cardiovascular Imaging (EACVI) B2

European Society of Cardiology (ESC)
European Heart House

Les Templiers, 2035 Route des Colles – CS 80179 BIOT - 06903 Sophia Antipolis Cedex – France
Tel: +33 492 947 600 – Fax: +33 492 948 646
Email: eacvi@escardio.org – Website: www.escardio.org/EACVI

Created in 2003, the European Association of Cardiovascular Imaging, a registered branch of the ESC, is the leading International network in its field.

MISSION

To promote excellence in clinical diagnosis, research, technical development, and education in cardiovascular imaging in Europe.

VISION

EACVI represents Nuclear Cardiology and Cardiac CT, Echocardiography and Cardiovascular Magnetic Resonance modalities into a single entity and can now efficiently address the current challenges of patient diagnosis and management.



COMPANY AND PRODUCT DESCRIPTIONS

VALUES

EACVI is committed to maintaining the highest standards of professional excellence in all modalities by providing an innovative educational platform to favour research and education in cardiovascular imaging. We strive to meet your needs and expectations.

Visit our stand, meet our team and learn more about:

- Membership programme
- Educational and Scientific opportunities
- European Heart Journal – Cardiovascular Imaging
- Congresses and courses
- Young doctors programme
- International networking
- Products at the shop

European Association of Nuclear Medicine (EANM) B3

Hollandstrasse 14 – 1020 Vienna – Austria

Tel: +43 121 280 30 – Fax: +43 121 280 309

Email: a.bauer@eanm.org – Website: www.eanm.org

The European Association of Nuclear Medicine (EANM) is the European umbrella organisation of nuclear medicine in Europe.

Within the EANM, the Cardiovascular Committee under the Chair of Prof. Marcus Hacker takes care of scientific and professional matters related to the practice of nuclear cardiology in Europe and cooperates with EACVI and ASNC.

The next EANM Congress will take place in Hamburg, 10-14 October 2015, featuring a full cardio-track.

European Society of Cardiology B2

European Heart House

Les Templiers, 2035 Route des Colles – CS 80179 BIOT - 06903 Sophia Antipolis Cedex – France

Tel: +33 492 947 600 – Fax: +33 492 948 669

Email: communications@escardio.org – Website: www.escardio.org

The European Society of Cardiology (or the ESC) represents over 87 000 cardiology professionals from across Europe and the Mediterranean. The ESC comprises 56 National Cardiac Societies, 15 Working Groups, 6 Associations and 5 Councils. It also includes the distinguished community of ESC Fellows and Nurse Fellows, 39 Affiliated Cardiac Societies, ESC Cardiologists of Tomorrow.

To fulfil its mission of “reducing the burden of cardiovascular disease in Europe”, the ESC provides an array of scientific and educational activities, such as the production and continuous updating of Clinical Practice Guidelines, the organisation of educational courses and initiatives, pan-European surveys on specific disease areas and the annual ESC Congress, the largest medical meeting in the world held this year from 29 August - 2 September 2015 in London, U.K.

The ESC is proud to hold, in conjunction with its constituent bodies, several sub-specialty congresses, which are becoming increasingly popular within the profession. These are Acute Cardiovascular Care, EHRA EUROPACE, EuroEcho-Imaging, EuroHeartCare, EuroPrevent, Frontiers of CardioVascular Biology (FCVB), Heart Failure, and International Conference of Nuclear Cardiology (ICNC). The ESC also publishes several leading journals on cardiology.

COMPANY AND PRODUCT DESCRIPTIONS

GE Healthcare **A7**

Pollards Wood – Nightingales Lane, Chalfont, St Giles – HP8 4SP Bucks – United Kingdom
Email: contactus@ge.com – Website: www.gehealthcare.com

GE Healthcare provides transformational medical technologies and services to meet the demand for increased access, enhanced quality and more affordable healthcare around the world. GE Healthcare works on things that matter - great people and technologies taking on tough challenges. From medical imaging, software & IT, patient monitoring and diagnostics to drug discovery, biopharmaceutical manufacturing technologies and performance improvement solutions, GE Healthcare helps medical professionals deliver great healthcare to their patients.

INVIA Medical Imaging Solutions **A6**

3025 Boardwalk Street – Suite 200 – Ann Arbor, MI 48108 – United States of America
Tel: +1 734 205 1231 – Fax: +1 734 205 1537
Email: info@inviasolutions.com – Website: <http://www.inviasolutions.com/>

Quantification, review, and reporting software for nuclear cardiac studies. State-of-the-art SPECT, PET, hybrid-CT, CFR, perfusion and function. Integrated with most scanner and PACS environments. Also available as software-only for Windows computers. Visit our booth to explore 4DM's latest features, including FDG PET SUV.

Ionetix Corporation **B1**

One Ferry Building – Suite 255 – San Francisco, CA 94111 – United States of America
Tel: +1 415 944 1440 – Fax: +1 415 520 5481
Email: info@ionetix.com – Website: www.ionetix.com

Ionetix Corporation is engaged in the development, manufacturing and distribution of a novel class of superconducting cyclotrons for the point-of-care production of PET radioisotopes. Ionetix is proud to introduce the industry's first on-site, on-demand, single purpose N-13 Ammonia production system. With an ultra-compact size and cost effective price point, this system offers clinicians unprecedented access to N-13 Ammonia radiopharmaceutical supply for cardiac PET perfusion imaging.

Mallinckrodt Pharmaceuticals **A2**

P.O. Box 3 – 1755 ZG Petten – The Netherlands
Tel: +31 224 567 041
Email: jeannine.van.den.hout@mallinckrodt.com – Website: www.mallinckrodt.com

Mallinckrodt Pharmaceuticals is focused on safely providing patients with vital imaging products, including nuclear medicine agents and contrast media and devices, along with other pharmaceutical products with a goal of improving lives. Our products, Technescan™ Sestamibi, Thallium 201, I123 mIBG, Technescan™ PYP and Ultra-Technekow™ Tc-99m generators, offer significant benefits to nuclear medicine departments.

MiE GmbH A8

Hauptstrasse 112 – 23845 Seth – Germany
Tel: +49 419 499 770 – Fax: +49 419 499 7755
Email: mie@miegermany.de – Website: www.miegermany.de

History

MiE was founded in 1981, in Seth near Hamburg (Northern Germany), and began as a local service organization. With growing demand for service, maintenance and its personal product line, MiE grew to where it stands today: the world's largest remanufacturer of gamma camera systems, with more than 1200 units installed worldwide. Currently we employ over 60 people who are always available to our customers. MiE is independent of any subcontractors. Our in-house research and development department ensures that we provide the latest technologies. This includes modern software and computer systems, and it allows us to meet the specific needs of our customers.

Our Systems

All of our gamma camera systems are manufactured and remanufactured according to current medical and technical requirements. Every MiE system has new crystals and a new workstation. In this way we can offer all of our customers the best possible service and systems with long life cycles.

Our units are completely 'manufactured and remanufactured' and are not to be confused with refurbished or second-hand cameras from other manufacturers. The complete manufacturing and remanufacturing processes are carried out by specialized MiE mechanics and engineers. All procedures are clearly described and documented in accordance with current requirements for medical devices.

We are independent on the OEM of the gamma camera. We can determine the life cycle of our products without having to rely on external service providers, even with systems already installed!

Rapidscan Pharma Solutions EU Ltd A5

Regent's Place – 338 Euston Road – NW1 3BT London – United Kingdom
Tel: +44 207 544 8464 – Fax: +44 207 544 8401
Email: info@rapidscanpharma.com – Website: www.rapisca-mpi.com

Rapidscan Pharma Solutions (RPS) EU Ltd is committed to improving patient care by advancing novel technologies for the timely and efficient diagnosis of cardiovascular disease.

Rapiscan® (regadenoson) is the only infusion pump free, single unit dose pharmacological stress agent approved for use as a selective coronary vasodilator for radionuclide myocardial perfusion imaging (MPI) in adult patients unable to undergo adequate exercise stress. Rapiscan is a selective, low affinity, and therefore short-acting, A2A adenosine receptor agonist that is administered as a 10-second intravenous injection without the need for weight based dosing. Rapiscan causes a maximum increase in coronary artery blood flow in 30 seconds with established diagnostic accuracy.

To learn more about Rapiscan see www.rapiscan-mpi.com.

COMPANY AND PRODUCT DESCRIPTIONS

Siemens AG Healthcare A3

Henkestr. 127 – D-91052 Erlangen – Germany

Tel: +49 913 1840 – Fax: +49 913 184 292

Email: contact.healthcare@siemens.com – Website: <http://www.healthcare.siemens.com/molecular-imaging>

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Biograph mCT Flow™* and Symbia Intevo™* were introduced to the world in 2013. Visit Siemens this year to experience firsthand the results from leading institutions that are leveraging these innovations to more confidently diagnose, treat and monitor disease. And see how, together, we are transforming the role of molecular imaging in patient care. Learn more about these innovations and more, including Siemens PET imaging biomarker production, Biograph™ mMR, as well as Siemens new reading solution, syngo®.via for MI. We look forward to seeing you in Madrid!

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The purpose of the International Conference of Non – Invasive Cardiovascular Imaging (ICNC) has always been to promote and further the cause of Nuclear Cardiology and Cardiac CT through the organisation of an international scientific and educational meeting. The three co-organisers collaborate to create a unique programme tailored for an international audience, providing attendees with enhanced knowledge and improved skills for implementing and sustaining strategies that lead to better outcomes.

PRE-ARRANGED PROGRAMME

Symposia

Allows for in-depth discussions on developments and advances in the various fields of Nuclear Cardiology and Cardiac CT and structured around four to five presentations.

Read with the Experts

Discussions around practical cases and latest research & publications. Four experts will explain difficulties, pitfalls and limitations whilst putting the results in perspective. Focus on learning from various cases/ research presentations.

How to sessions

Provides practical, informative and has a great educational value. Session devoted to the demonstration by experts of their practical approach to specific procedures.

ABSTRACT-BASED PROGRAMME

Young Investigator Award Session

Come and listen to the best of our young researchers and support them in these important presentations. **New this year!** The YIA session will take place on Sunday 3 May and the winners will be announced during the Inaugural Session!

Oral Clinical-Case Sessions

Best Clinical Cases submitted are retained for presentation in highly interactive and educational sessions. Trainees and Young clinicians will present their cases and experts will be asked to moderate the sessions, facilitate interaction with the audience, prompt discussions, challenge the presenters and the audience. The main objective of the session is to learn from challenging clinical case scenarios.

Moderated Poster Sessions

Sessions consisting of visual display of research highlights. The posters considered to be of special interest will be presented during one of the five Moderated Poster sessions. Presenters will briefly discuss the content of their poster with two moderators in front of an appreciative audience during the coffee breaks.

Poster Sessions

Poster sessions will feature abstracts accepted for poster presentation. Posters will be on display all day and presenters will be available by their posters to discuss the content during the coffee breaks.

- Cost effectiveness/prognosis
- Cardiac CT
- Exercise/Stress
- Clinical General
- Heart Failure
- Ischemia
- Microvascular disease
- Molecular imaging
- Technical

New this year: Clinical-cases will be on display in poster format in a dedicated area of the poster zone.

UNIQUE OPPORTUNITIES FOR YOUNG INVESTIGATORS

Six Young Investigator Award finalists have been selected to compete for the chance to win €500 for the winner, €300 for 2nd finalist and €200 for the 3rd.

Finalists will present their research in oral YIA sessions, moderated by two chairpersons and a panel of experts to judge the presentations and determine the winners.

The session will take place on Sunday 3 May and the winners will be announced the same day during the Inaugural Session.

Young Investigator Award finalists:

E. Bertella (Milan, IT)

Cardiac computed tomography versus cardiac magnetic resonance for characterization of left atrium anatomy before radiofrequency catheter ablation of atrial fibrillation

I. Soukka (Turku, FI)

Cardiac hybrid PET-CT imaging guides downstream referral for invasive coronary angiography and revascularization.

J. Thackeray (Hannover, DE)

Molecular imaging of endogenous bone marrow cell trafficking following myocardial infarction in mice

M. A. De Graaf (Leiden, NL)

HDL cholesterol, leptin and interleukin-6 are predictors of overall coronary atherosclerotic burden as assessed by CT angiography in patients with stable angina: results from the EVINCI study

H. J. Harms (Aarhus, DK)

Automated calculation of myocardial external efficiency from a single 11C-acetate PET/CT scan

T. Maaniitty (Turku, FI)

Prognostic value of combined coronary CT angiography and PET perfusion imaging in suspected coronary artery disease

BEST REGIONAL ABSTRACT WINNERS

Awarding top rated original research from around the world

Spain

"Efficacy of the software 'Care dose 4D / Care kV' to reduce radiation exposure in noninvasive CT angiogram"

By Tomas Fernando Benito Gonzalez, Spain

Moderated Poster session 1

Sunday 03 May from 10:00-11:00

United States of America

"Quantitative identification of sarcoidosis with FDG PET"

By Edward Ficaro, United States of America

Moderated Poster session 2

Sunday 03 May from 15:30-16:30

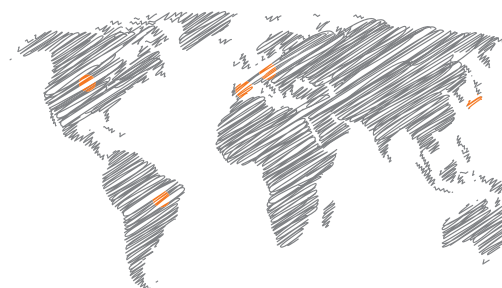
Germany

"Molecular imaging of endogenous bone marrow cell trafficking following myocardial infarction in mice"

By James Thackeray, Germany

Young Investigator Award competition

Sunday 03 May from 08:30-10:00



Brazil

"Influence of left bundle branch block in assessment of coronary flow from rubidium-82 PET imaging"

By Andrea Falcao, Brazil

Poster session 2

Monday 04 May from 10:00-11:00 and 15:30-16:30

Japan

"Sudden death prediction by C-reactive protein, electrocardiographic findings and myocardial fatty acid uptake in patients undergoing hemodialysis: a multicenter prospective cohort sub-study"

By Akiyoshi Hashimoto, Japan

Moderated Poster Session 1

Sunday 03 May from 10:00-11:00

18:00-19:05 in Room Roma

ICNC12 - INAUGURAL SESSION

Welcome from the Organising Committee.

F. M. Bengel (Hannover, DE)

American Society of Nuclear Cardiology.

D. Wolinsky (Weston, US)

European Association of Nuclear Medicine.

M. Hacker (Vienna, AT)

EACVI Section on Nuclear Cardiology and Cardiac CT.

D. Neglia (Pisa, IT)

ICNC12 Scientific Programme.

A. J. H. A. Scholte (Leiden, NL)

Keynote: The future of cardiovascular imaging - a European perspective.

J. M. Knuuti (Turku, FI)

Keynote: Quality imaging in an era of limited cardiovascular care resources.

K. A. Williams (Chicago, US)

Young Investigator Award from the ICNC12 Scientific Committee Programme Chairs.

A. N. Kitsiou (Athens, GR); A. J. H. A. Scholte (Leiden, NL); S. Dorbala (Lexington, US)

Closing remarks from the Organising Committee.

R. Beanlands (Ottawa, CA)

Followed by a Networking Reception in the Exhibition area

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SUNDAY 3 MAY 2015 // MORNING SESSIONS

08:30 - 10:00 // Symposium

Room **Roma**

Recent trends in nuclear cardiology: technology and practice

Chairperson(s): A. Allam (Giza, EG); M. Hacker (Vienna, AT)

08:30	SPECT & PET Hardware. E. Garcia (Atlanta, US)	1
08:45	Novel imaging protocols and reconstruction algorithms. P.J. Slomka (Los Angeles, US)	2
09:00	Trends in clinical perfusion tracer availability, utilisation, and novel delivery systems. C. Marcassa (Veruno, IT)	3
09:15	Global variations in nuclear cardiology practice: findings from the INCAPS Study. A. J. Einstein (New York, US)	4
09:30	MPI in the developing world. F. Mut (Montevideo, UY)	5
09:45	Discussion.	6

08:30 - 10:00 // Young Investigators Awards Session

Room **Milan**

Young Investigator Award Competition

Chairperson(s): R. Gibbons (Rochester, US); S.R. Underwood (London, GB)

Judge(s): K. Nieman (Rotterdam, NL); B. J. Chow (Ottawa, CA); V. Dilsizian (Baltimore, US); M. Sciammarella (Paola, IT); D. Delbeke (Nashville, US); K. Yoshinaga (Chiba, JP)

Six selected finalists will present their research in competition to win ICNC 2015 Young Investigator Award. Winners will be announced at the Inaugural session on Sunday 3 May between 18:00-19:05.

08:30	Cardiac computed tomography versus cardiac magnetic resonance for characterization of left atrium anatomy before radiofrequency catheter ablation of atrial fibrillation. E. Bertella, A. Baggiano, M. Petulla, S. Mushtaq, V. Beltrama, P. Gripari, E. Conte, E. Russo, D. Andreini, G. Pontone (Milan, IT)	7
08:45	Cardiac hybrid PET-CT imaging guides downstream referral for invasive coronary angiography and revascularization. I. Soukka, T. Maaniitty, A. Saraste, V. Uusitalo, H. Ukkonen, S. Kajander, M. Maki, J. Bax, J. Knuuti (Turku, FI; Leiden, NL)	8
09:00	HDL cholesterol, leptin and interleukin-6 are predictors of overall coronary atherosclerotic burden as assessed by CT angiography in patients with stable angina: results from the EVINCI study. M. A. De Graaf, C. Caselli, V. Lorenzoni, D. Rovai, M. Marinelli, S. Del Ry, D. Giannessi, J.J. Bax, A.J. Scholte, D. Neglia (Leiden, NL; Pisa, IT)	9
09:15	Molecular imaging of endogenous bone marrow cell trafficking following myocardial infarction in mice. J.T. Thackeray, M. Korf-Klingebiel, Y. Wang, O. Kustikova, J.P. Bankstahl, K.C. Wollert, F.M. Bengel (Hannover, DE)	10

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- 09:30** Automated calculation of myocardial external efficiency from a single ¹¹C-acetate PET/CT scan. 11
H.J. Harms, L.P. Tolbod, N.H. Hansson, W.Y. Kim, K. Bouchelouche, H. Wiggers, J. Frokiaer, J. Sorensen (Aarhus, DK)
- 09:45** Prognostic value of combined coronary CT angiography and PET perfusion imaging in suspected coronary artery disease. 12
T. Maaniitty, I. Stenstrom, A. Saraste, V. Uusitalo, H. Ukkonen, S. Kajander, M. Maki, J. Bax, J. Knuuti (Turku, FI; Leiden, NL)

08:30 - 10:00 // Read with the Experts

Room **Venecia**

Advanced cardiac imaging with PET

Chairperson(s): D. Le Guludec (Paris, FR); A. Saraste (Turku, FI)

- 08:30** Relative PET MPI. 13
P. Knaapen (Amsterdam, NL)
- 09:00** Added value of quantitative PET MPI. 14
P. Arumugam (Cheshire, GB)
- 09:30** Artefacts in PET MPI. 15
D. Calnon (Dublin, US)

10:00 - 11:00 // Clinical Cases

Room **Venecia**

Clinical Case Session I

Chairperson(s): M. J. Zellweger (Basel, CH); C. Anagnostopoulos (Athens, GR)

Best Clinical Cases submitted are retained for presentation in highly interactive and educational sessions. Trainees and Young clinicians will present their cases and experts will be asked to moderate the sessions, facilitate interaction with the audience, prompt discussions, challenge the presenters and the audience. The main objective of the session is to learn from challenging clinical case scenarios.

- 10:00** Anomalous origin of the coronary artery - 2 case reports. 16
R. Ferreira, A. Gonzaga, P. Cardoso, J.A. Santos (Aveiro, PT)
- 10:10** ¹²³I-MIBG (¹²³I-metaiodobenzylguanidine) scintigraphy in myocardial noncompaction. 17
M. Stanislaw, A. Facciorusso, G. Di Stolfo, G.M. Cricconia, A. Parisi, S. Michelini, M. Fanelli, G. Valle (San Giovanni Rotondo, Chieti, Rome and Foggia, IT)
- 10:20** Incidental detection of a paracardiac aortic paraganglioma via coronary angiography and cardiac CT: Hybrid revascularisation of the patient. 18
O. Gokhan, A. Hasan, D. Mehmet, M. Mehmet, C. Selvi, K. Mustafa, Z. Ismet (Bursa, TR)
- 10:30** Acquired von willebrands factor disease secondary to prosthetic valve dysfunction as seen on computed tomography. (W) 19
J. Ray, S. Squier, D. Snipelisky, B.P. Shapiro (Jacksonville, US)
- 10:40** Recurrent ventricular arrhythmias in a patient with cardiac sarcoid. 20
S.S. Din, R. Snowdon (Liverpool, GB)
- 10:50** An unusual cause for collapse. 21
K. Williams, M. Michail, T.W. Koh (London, GB)

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10:00 - 11:00 // Moderated Posters

Moderated Poster Area

Moderated Poster Session 1

Chairperson(s): S. Nekolla (Munich, DE); E. Reyes (London, GB)

Posters are on display in the poster area from 08:30 until 12:30. Each poster presenter will have 5 minutes to briefly summarize their poster to the moderators in front of a dedicated audience. A question-and-answer period of 2 minutes follows each presentation.

- | | |
|---|----|
| Sudden death prediction by C-reactive protein, electrocardiographic findings and myocardial fatty acid uptake in patients undergoing hemodialysis: a multicenter prospective cohort sub-study.
A. Hashimoto, T. Nakata, M. Moroi, N. Tamaki, T. Nishimura, N. Hasebe, K. Kikuchi (Sapporo, Hakodate, Tokyo, Kyoto and Asahikawa, JP) | 22 |
| Efficacy of Regadenoson combined with low-level exercise in patients with left bundle branch block.
C. Salgado, A. Jimenez-Heffernan, J. Lopez-Martin, C. Ramos-Font, E. Sanchez De Mora, F. Rivera, R. Lopez-Aguilar, A.B. Martinez, A. Manovel, E. Soriano (Huelva and Seville, ES) | 23 |
| Diagnostic accuracy of rapid Kilovolt Peak-Switching Dual-Energy CT coronary angiography in patients with high calcium score.
S. Mushtaq, G. Pontone, E. Bertella, E. Conte, C. Segurini, V. Volpato, V. Beltrama, M. Pepi, A. Annoni, D. Andreini (Milan, IT) | 24 |
| Antiplatelet therapy for primary prevention in high risk diabetic patients without chest pain syndrome: additive value of computed tomography coronary angiography (CTCA).
A.C. Leen, A.J.H.A. Scholte, M.A. De Graaf, I.J. Van Den Hoogen, A.V. Kharagjitsingh, R. Wolterbeek, L.J. Kroft, J.W. Jukema, J.J. Bax (Leiden and The Hague, NL) | 25 |
| Multicenter trial validation of 2nd generation multimodality image fusion for the quantitative assessment of myocardium at risk in coronary artery disease evaluation.
M. Piccinelli, C. Santana, G.K.R. Sirineni, C.D. Cooke, S. Aguade Bruix, Z. Keidar, A. Frenkel, O. Israel, J. Candell Riera, E.V. Garcia (Atlanta and Ohama, US; Barcelona, ES; Rambam, IL) | 26 |
| Aortic valve calcium score as an adjunct for the diagnosis of aortic stenosis; optimizing the test.
A. Sharma, A. Bajwa, U. Bhatnagar, E. Thompson, S. Patil, R. Thompson (Kansas City, Chicago and Atlanta, US) | 27 |
| Feasibility of stress-first/stress-only (SFSO) myocardial perfusion imaging (MPI) in patients undergoing testing in a tertiary care facility.
A. Khoorshed, F. Spencer, T.H. Farncombe, V. Tandon, A. Singnurkar, K.Y. Gulenchyn (Hamilton, CA) | 28 |
| Efficacy of the software "Care dose 4D / Care kV" to reduce radiation exposure in noninvasive CT angiogram.
T. F. Benito Gonzalez, C. Delgado SanchezGracian, C. Trinidad Lopez, D. Mera Fernandez, A. M. Villanueva Campos, A. Bustos Fiore, V. Alonso Fernandez, A. Mayorga Bajo, E. Martinez Paz, I. Iglesias Garriz (Leon and Vigo, ES) | 29 |

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11:00-12:30 // Symposium

Room **Roma**

Recent trends in cardiac CT: technology and practice

Chairperson(s): J. J. Mahmarian (Houston, US); P. Knaapen (Amsterdam, NL)

11:00	CT hardware. M.S. Bittencourt (Sao Paulo, BR)	30
11:18	Methods for low-dose coronary CTA. S. Achenbach (Erlangen, DE)	31
11:36	CT for SPECT and PET-MPI: Attenuation correction and calcium score. To be announced	32
11:54	Cardiac CT in the developing world. A. Meave (Mexico City, MX)	33
12:12	CT perfusion and fractional flow reserve. M. Dewey (Berlin, DE)	34

11:00-12:30 // Symposium

Room **Milan**

Advances in cardiac PET

Supported by Jubilant DraxImage

Chairperson(s): G. A. Beller (Charlottesville, US); I. Carrio (Barcelona, ES)

11:00	Novel hardware and software for cardiac PET. P.J. Slomka (Los Angeles, US)	35
11:18	Optimal patient selection and protocols for cardiac PET. R. Corbett (Ann Arbor, US)	36
11:36	Advances in quantitative PET myocardial perfusion imaging. A. Saraste (Turku, FI)	37
11:54	Risk reclassification with PET MPI. L. J. Shaw (Atlanta, US)	38
12:12	Role of PET for CAD evaluation. A global perspective. P. Arumugam (Cheshire, GB)	39

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SUNDAY 3 MAY 2015 // MORNING SESSIONS

11:00 - 12:30 // Read with the Experts

Room Venecia

Cases from conventional and novel cardiac CT technology

Chairperson(s): B. J. Chow (Ottawa, CA); J.J. Gomez de Diego (Madrid, ES)

11:00	Interpretation of calcified vessels. F. Pugliese (London, GB)	40
11:22	Stents. K. Nieman (Rotterdam, NL)	41
11:45	Coronary bypass grafts. Y.J. F. Keng (Singapore, SG)	42
12:07	Acute chest pain. A. Zadeh (Baltimore, US)	43

SUNDAY 3 MAY 2015 // LUNCH TIME SESSIONS

12:35 - 13:50 // Satellite Symposium

Room Venecia

Non-invasive cardiac imaging: case studies

Sponsored by Rapidscan Pharma Solutions EU Ltd

Chairperson(s): F. M. Bengel (Hannover, DE); A.E. Iskandrian (Birmingham, US)

Meeting objective is to present and discuss case studies of non-invasive cardiac imaging: role, efficacy and safety of stress testing in patients undergoing radionuclide myocardial perfusion imaging.

12:35	Opening remarks. F. M. Bengel (Hannover, DE)	44
12:40	Case presentation and discussion: How to choose the stress agent: dipyridamole, adenosine and regadenoson? S. Dorbala (Lexington, US)	45
12:55	Case presentation and discussion: Non-invasive cardiac imaging in high-risk patients. Lessons for street in severe lung disease. S. R. Underwood (London, GB)	46
13:10	Case presentation and discussion: Pharmacological stress radionuclide imaging: European experience. F. M. Bengel (Hannover, DE)	47
13:25	Case presentation and discussion: Pharmacological stress radionuclide imaging: US experience. A.E. Iskandrian (Birmingham, US)	48
13:40	Closing remarks. A.E. Iskandrian (Birmingham, US)	49

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14:00 - 15:30 // How-to Session

Room **Roma**

How to perform state of the art advanced myocardial perfusion imaging?

Chairperson(s): A. Gimelli (Pisa, IT); N. Zafrir (Petah Tikva, IL)

14:00	Radionuclide imaging - PET. T. M. Bateman (Kansas City, US)	50
14:18	Radionuclide imaging - SPECT. T. Chua (Singapore, SG)	51
14:36	CMR. C. Bucciarelli-Ducci (Bristol, GB)	52
14:54	Cardiac CT. R. Blankstein (Boston, US)	53
15:12	Low radiation dose MPI. A.J. Einstein (New-York, US)	54

14:00 - 15:30 // Symposium

Room **Milan**

Important clinical trials and registries in nuclear cardiology and cardiac CT I

Chairperson(s): G. A. Beller (Charlottesville, US); R. C. Hendel (Miami, US)

14:00	SPECT MPI and prognosis in BARI 2D trial. L. J. Shaw (Atlanta, US)	55
14:12	PET/CT trial rubidium-ARMI. R. de Kemp (Ottawa, CA)	56
14:25	EVINCI trial (multi-modality). D. Neglia (Pisa, IT)	57
14:38	What have we learned from the CONFIRM registry? Prognostic implications. S. Achenbach (Erlangen, DE)	58
14:51	SPARC study. M. F. Di Carli (Boston, US)	59
15:04	PROTECTION-IV study. J. Hausleiter (Munich, DE)	60
15:17	Flupiridaz F-18 MPI: Recent clinical trial data. J. Maddahi (Los Angeles, US)	61

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SUNDAY 3 MAY 2015 // AFTERNOON SESSIONS

14:00 - 15:30 // Read with the Experts

Room Venecia

Advanced SPECT and CT using novel technology

Chairperson(s): P. Chareonthaitawee (Rochester, US); M. Travin (Bronx, US)

14:00	Low radiation dose patient-centered MPI cases. O. Gaemperli (Zurich, CH)	62
14:30	SPECT/CT cases. O. Israel (Haifa, IL)	63
15:00	Extracardiac findings on CT. M. Dewey (Berlin, DE)	64

15:30 - 16:30 // Moderated Posters

Moderated Poster Area

Moderated Poster session 2

Chairperson(s): J. Hausleiter (Muenchen, DE); T. Nakata (Sapporo, JP)

Posters are on display in the poster area from 14:00 until 18:00. Each poster presenter will have 5 minutes to briefly summarize their poster to the moderators in front of a dedicated audience. A question-and-answer period of 2 minutes follows each presentation.

Quantitative stress-first fast myocardial perfusion SPECT using a CZT camera: diagnostic performance of half isotope-dose versus standard-dose. T. Sharir, M. Pinskiy, B. Brodtkin, A. Rochman, V. Prochorov, A. Bojko, K. Merzon, A. Pardes (Tel Aviv and Beer Sheva, IL)	65
Feasibility of hybrid PET/MR in patients admitted for acute coronary syndrome: a comparison to PET/CT. A.A. Ghotbi, P. Hasbak, T. Christensen, T. Engstroem, M. Lassen, A.A. Kjaer (Copenhagen, DK)	66
Quantitative identification of sarcoidosis with FDG PET. E. Ficaro, V.L. Murthy, J.R. Corbett (Ann Arbor, US)	67
Do the new systems dedicated to nuclear cardiology overcome the residual attenuation? O. Zoccarato, C. Marcassa, R. Matheoud, A. Savi, L. Indovina, S. Ren Kaiser (Veruno, Novara, Milan, Rome and Brescia, IT)	68
Reclassification from pre-est to post-test probability of coronary artery disease with coronary computed tomography angiography. M. J. Bom, P.M. Van Der Zee, J.H. Cornel, F.M. Van Der Zant, R.J.J. Knol (Alkmaar, NL)	69
18F-DG PET/CT-Angiography with myocardial suppression in the diagnosis of infective endocarditis in prosthetic valves and intracardiac devices. M. N. Pizzi, A. Roque, N. Fernandez-Hidalgo, H. Cuellar-Calabria, M.T. Gonzalez-Alujas, G. Oristrell, J. Rodriguez-Palomares, P. Tornos, S. Aguade-Bruix (Barcelona, ES)	70
Circulating apoptotic small-size microparticles as predictors of worsening of symptomatic chronic heart failure. A. Berezin, A. Kremzer (Zaporozhye, UA)	71
Assessment of myocardial fibrosis using 15-O water positron emission tomography and perfusable tissue fraction in patients with heart failure undergoing cardiac rehabilitation. M. Gautier, D. Legallois, A. Belin, D. Agostini, A. Manrique (Caen, FR)	72

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16:15-17:45 // Symposium

Room Roma

Cardiac CT: coronary arteries and beyond

Chairperson(s): C. Fernandez-Golfin (Madrid, ES); M. Sciammarella (San Francisco, US)

16:15	Coronary CTA. M. S. Bittencourt (Sao Paulo, BR)	73
16:33	Imaging for peripheral vascular disease. R. Thompson (Kansas City, US)	74
16:51	Emerging applications of cardiac CT in mitral and aortic valve disease. M. Gutberlet (Leipzig, DE)	75
17:09	Imaging in congenital heart disease. R. Thompson (Kansas City, US)	76
17:27	Incidental findings in cardiac CT. L.S. Wann (Milwaukee, US)	77

16:15-17:45 // Symposium

Room Milan

Multi-modality cardiovascular molecular imaging applications

Chairperson(s): R. Beanlands (Ottawa, CA); D. Delbeke (Nashville, US)

16:15	Cardiac regeneration. F. M. Bengel (Hannover, DE)	78
16:33	Atherosclerosis. R. Gropler (St. Louis, US)	79
16:51	Vascular remodelling. M. Sadeghi (New Haven, US)	80
17:09	Sodium fluoride cardiovascular imaging. M. Dweck (Edinburgh, GB)	81
17:27	Imaging heart failure and LV remodeling. J. M. Knuuti (Turku, FI)	82

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SUNDAY 3 MAY 2015 // AFTERNOON SESSIONS

16:15-17:45 // Read with the Experts

Room Venecia

How to deal with discordant test results

Chairperson(s): A. Lahiri (London, GB); C. Marcassa (Veruno, IT)

- | | | |
|--------------|---|----|
| 16:15 | Positive exercise stress test and negative SPECT MPI.
R. G. Schwartz (Rochester, US) | 83 |
| 16:45 | Asymptomatic patient with positive exercise stress test.
H. J. Ukkonen (Turku, FI) | 84 |
| 17:15 | Low-intermediate pre-test likelihood, atypical symptoms and obstructive CAD on CT.
R. Hessian (Ottawa, CA) | 85 |

18:00-19:05 // Special Event

Room Roma

Inaugural Session

Chairperson(s): R. Beanlands (Ottawa, CA); F. M. Bengel (Hannover, DE)

The Inaugural Session will be immediately followed by a networking reception in the Exhibition area.

- | | |
|--------------|--|
| 18:00 | Welcome from the Organising Committee.
F. M. Bengel (Hannover, DE) |
| 18:05 | American Society of Nuclear Cardiology.
D. Wolinsky (Weston, US) |
| 18:10 | European Association of Nuclear Medicine.
M. Hacker (Vienna, AT) |
| 18:15 | EACVI Section on Nuclear Cardiology and Cardiac CT.
D. Neglia (Pisa, IT) |
| 18:20 | ICNC 12 Scientific Programme.
A. J. H. A. Scholte (Leiden, NL) |
| 18:25 | Keynote: The future of cardiovascular imaging - a European perspective.
J. M. Knuuti (Turku, FI) |
| 18:40 | Keynote: Quality imaging in an era of limited cardiovascular care resources.
K. A. Williams (Chicago, US) |
| 18:55 | Young Investigator Award from the ICNC 12 Scientific Committee Programme Chairs.
A. N. Kitsiou (Athens, GR); A. J. H. A. Scholte (Leiden, NL); S. Dorbala (Lexington, US) |
| 19:00 | Closing remarks from the Organising Committee.
R. Beanlands (Ottawa, CA) |

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08:30-18:00 // Poster Session

Poster Area

Poster session 1

Presenters will be by their poster during the coffee breaks from 10:00 to 11:00 and from 15:30 to 16:30 to discuss the poster with the audience.

Cost effectiveness / Prognosis

- Complementary use of area detector computed coronary angiography and radionuclide myocardial perfusion imaging for the management of patients with intermediate risk of coronary artery disease. P86
Y. Taniguchi, Y. Takahashi, T. Toba, S. Yamada, K. Yokoi, S. Kobayashi, S. Okajima, A. Shimane, H. Kawai, Y. Yasaka (Himeji, JP)
- Myocardial perfusion Imaging in the evaluation of cardiac events after 8 years in non-symptomatic diabetic patients. P87
P. Smanio, M. A. Oliveira, L. Machado, P. Cestari, E. Medeiros (Sao Paulo, BR)
- Relationship of CT coronary artery calcification progression and oxidative stress in type II diabetes patients. P88
S. Fukuzawa, S. Okino, A. Ikeda, J. Maekawa, S. Ichikawa, N. Kuroiwa, K. Yamanaka, A. Igarashi, M. Inagaki (Funabashi, JP)
- Determining the optimum transient ischemic dilation cutoff for angiographically significant coronary disease in one-day rest/stress regadenoson spect myocardial perfusion imaging. P89
K. Patel, M. Mahan, K. Ananthasubramaniam (Detroit, US)
- Prognostic value of normal stress-only myocardial perfusion imaging: a comparison between conventional and CZT - based SPECT. P90
M. Mouden, S. Yokota, J.P. Ottervanger, S. Knollemma, J.R. Timmer, P.L. Jager (Zwolle, NL)
- Prognostic value of reverse reversibility defects detected by gated-SPECT myocardial perfusion imaging. P91
K. Padron, A. Peix, L.O. Cabrera, V. Pena Bofill, D. Valera, L. Rodriguez Nande, R. Carrillo Hernandez, E. Mena Esnard, Y. Fernandez Columbie (La Havana, CU)

Cardiac CT

- Impact of intra-cycle motion correction algorithm on overall evaluability and accuracy in 160 not-evaluable consecutive patients studied by computed tomography coronary angiography for suspected CAD. P92
E. Bertella, A. Baggiano, S. Mushtaq, C. Segurini, M. Loguercio, E. Conte, V. Beltrama, M. Petulla, D. Andreini, G. Pontone (Milan, IT)
- Ivabradine for heart rate lowering in patients undergoing coronary computed tomographic angiography: a single - center pilot randomized trial. P93
B. Guzik Salobir, M. Dolenc Novak, B. Jug, B. Kacjan, Z. Novak, M. Vrtovec (Ljubljana, SI)
- Low-dose CT coronary angiography with a novel IntraCycle motion-correction algorithm in patients with high heart rate or heart rate variability. P94
S. Mushtaq, G. Pontone, E. Bertella, E. Conte, C. Segurini, V. Volpato, A. Baggiano, A. Formenti, M. Pepi, D. Andreini (Milan, IT)
- The role of multi slice coronary computed tomography in diagnostic of atherosclerotic coronary disease and evaluation of patients with previous coronary intervention. P95
R. Ajanovic, A.H.S. Husic-Selimovic, A.Z.A. Zujovic-Ajanovic (Sarajevo, BA)

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Anatomical relations of left circumflex artery and coronary sinus to the mitral valve in computed tomography. P96

R. Mlynarski, A. Mlynarska, K. Golba, M. Sosnowski (Katowice, PL)

Assessment of 64 slice ct coronary angiographic findings in patients with suspected ischaemic chest pain and negative or non diagnostic tread mill test. P97

D. Ameta, M. Goyal, D. Kumar, S. Chandra, R. Sethi, A. Puri, S. K. Dwivedi, V. S. Narain, R. K. Saran (Lucknow, IN)

Myocardial FDG uptake from static acquisitions: performance of different quantification approaches. P98

S. Nekolla, C. Rischpler, S. Nicolosi, N. Langwieser, R. Dirschinger, K.L. Laugwitz, M. Schwaiger (München, DE)

Exercise / Stress

Sufficient and negative Ergometric exercise Test in Diabetic patients. Impact of GatedSpect. P99

J. L. Goral, J. Napoli, P.J. Forcada, N.E. Zucchiatti, A.C. Damico, A.E. Damico, D.B. Olivieri, M.A. Lavorato, E.A. Dubesarsky, O.R. Montana (Ramos Mejia, Buenos Aires and Ramos Mejia, Buenos Aires, Argentina, AR)

Comparison of adverse events between Regadenoson and Adenosine both combined with low-level exercise in patients with obesity. P100

C. Salgado, A. Jimenez-Heffernan, C. Ramos-Font, J. Lopez-Martin, E. Sanchez De Mora, R. Lopez-Aguilar, A. Manovel, A.B. Martinez, F. Rivera, E. Soriano (Huelva and Seville, ES)

General

Spect perfusion defects in young men with small structural features of heart. P101

N. Maroz-Vadalazhskaya, E. Trisvetova, O. Vrublevskaya (Minsk, BY)

Visceral adipose tissue influences on coronary artery calcifications at young and middle-age groups using computed tomography angiography. P102

R. Abazid, M. Kattea, H. Saqqah, S. Sayed, O. Smettei (Burydah, SA)

Acute kidney injury following dual contrast medium administration in kidney transplantations candidates. P103

S. Winther, M. Svensson, H. Birn, H.S. Jorgensen, H.E. Botker, P. Ivarsen, M. Bottcher (Aarhus and Herning, DK)

Does renal dysfunction occur following contrast-enhanced coronary CT angiography in outpatients with suspected coronary artery disease? P104

T. Maaniitty, I. Stenstrom, A. Saraste, E. Pikkarainen, V. Uusitalo, H. Ukkonen, S. Kajander, J. Bax, J. Knuuti (Turku, FI; Leiden, NL)

Clinical characteristics for severe coronary artery disease in patients with very low coronary artery calcium score. P105

T.Y. Choi, H.B. Park, C.H. Lee, J.H. Lee, Y.S. Seo, Y.H. Cho, E.S. Hwang, D.K. Cho (Goyang, KR)

Whole body positron emission tomography/computed tomography with 18F-fluorodeoxyglucose in infective endocarditis and cardiac devices infection: does it add valuable information? P106

C. Sanchez Enrique, C. Ferrera, C. Olmos, A. Jimenez-Balve, M. J. Perez-Castejon, C. Fernandez, D. Vivas, I. Vilacosta (Madrid, ES)

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Comparison of Phase analysis among three kinds of soft-ware (QGS, ETB and Heart function view) in ischemic heart disease. P107

S. Nagamachi, H. Onizuka, R. Nishii, Y. Mizutani, K. Kitamura (Miyazaki and Miyazakishi, JP)

Agreement analysis of different three-dimensional transoesophageal echocardiographic modalities and cardiac CT scan in aortic annulus sizing for transapical heart valve implantation. P108

M. Lo Presti, V. Polizzi, P.G. Pino, G. Luzi, D. Bellavia, R. Fiorilli, A. Madeo, J. Malouf, V. Buffa, F. Musumeci (Rome and Palermo, IT; Rochester, US)

Endocarditis as cause of Aneurism in patent ductus arteriosus. P109

S. Rosales, A. Puente (Mexico, MX)

Quantitation of left to right cardiac shunt by first pass radionuclide angiography using dedicated cardiac gamma camera. P110

N. Zafir, T. Shochat, A. Mats, A. Solodky, R. Kornowski, A. Lorber (Petah Tikva and Haifa, IL)

Heart Failure

Insulin resistance is associated with impaired cardiac sympathetic innervation in patients with heart failure. P111

A. Boemio, T. Pellegrino, S. Paolillo, V. Piscopo, R. Carotenuto, B. Russo, S. Pellegrino, G. De Matteis, P. Perrone-Filardi, A. Cuocolo (Naples, IT)

Impact of diabetes mellitus and ischemic cardiomyopathy on cardiac sympathetic innervation in patients with heart failure. P112

V. Piscopo, T. Pellegrino, A. Boemio, R. Carotenuto, B. Russo, S. Pellegrino, G. De Matteis, M. Petretta, A. Cuocolo (Naples, IT)

Patients with favorable effects of left ventricular reconstruction: the role of ECG-gated Emission Computed Tomography method. P113

N. Amirov, M. Ibatullin, A. Sadykov A, G. Saifullina (Kazan, RU)

Use of gated-spect myocardial perfusion imaging in everyday practice to assess viability in patients with coronary artery disease and poor ventricular function. P114

R. Ruano, M. Diego Dominguez, T. Rodriguez Gabella, A. Diego Nieto, L.G. Diaz Gonzalez, J.R. Garcia-Talavera, P.L. Sanchez Fernandez (Salamanca and salamanca, ES)

The impact of variation in time of myocardial scintigraphy acquisition after 123-iodine meta-iodobenzylguanidine (MIBG) administration on the late heart-to-mediastinum ratio (DOMISC Study). P115

A.C. Leen, I. Al Younis, S. Zandbergen-Harlaar, H.J. Verberne, A. Gimelli, C.E. Veltman, R. Wolterbeek, J.J. Bax, A.J.H.A. Scholte (Leiden and Amsterdam, NL; Pisa, IT)

Left ventricular ejection fraction as estimated by iterative reconstruction and filtered backprojection. P116

D. Mooney, J.A. Rosenblatt, T.L. Dunn, S.C. Vasaiwala (Portland and Scarborough, Maine, US)

Comparison of two software packages for the evaluation of the left ventricular dyssynchrony by phase analysis in gated myocardial perfusion SPECT. P117

K. Okuda, K. Nakajima, K. Nystrom, L. Edenbrandt, S. Matsuo, H. Wakabayashi, M. Hashimoto, S. Kinuya (Ishikawa and Kanazawa, JP; Lund and Gothenburg, SE)

Effect of neuroleptics on left ventricular ejection fraction assessed by echocardiography and radionuclide ventriculography. P118

V. Iric-Cupic, S. Milanov, G. Davidovic, V. Zdravkovic (Kragujevac, RS)

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Ischemia

- 99mTc-sestamibi myocardial extent and severity scores at the chronic phase predicts myocardial damage in patients with previous myocardial infarction. P119
K. Ashikaga, K. Yoneyama, Y. Akashi (Kawasaki, JP)
- Integrated use of FFR and IVUS in treatment of intermediate coronary stenosis. P120
Z. Shugushev, D. Maximkin, A. Chepurnoy, O. Volkova, V. Baranovich, A. Faibushevich (Moscow, RU)
- Cardiac biomarker assay to predict occluded grafts by CT angiography. P121
M. El Tahlawi, A. Elmurr, S. Alzubaidi, A. Sakrana, M. Gouda, R. El Tahlawi (Zagazig, EG; Almadinah, SA)
- Quantitative gated spect phase analysis in patients with normal and abnormal myocardial perfusion. P122
A. Sellem, S. Melki, W. Elajmi, H. Hammami (Tunis, TN)
- Normal findings of myocardial scintigraphy in patients over 85 years of age still predict good outcomes. P123
M. Okano, T. Kato, M. Kimura, M. Funasako, E. Nakane, S. Miyamoto, T. Izumi, T. Haruna, M. Inoko (Osaka, JP)
- Differences between fully automatic and manual processing for left ventricular synchrony assessment in dilated and non-dilated hearts comparing rest and post-stress acquisitions. P124
T. Massardo, E. Swett, R. Fernandez, V. Vera, J. Zhindon (Santiago, CL)
- Left bundle branch block and myocardial infarction influence in the ventricular contraction synchronism with myocardial perfusion gated SPECT. P125
R. Fernandez, E. Swett, V. Vera, J.P. Zhindon, R. Alay, T. Massardo (Santiago, CL)

Microvascular disease

- Reduced myocardial microvascular dysfunction is observed in the dialysis patients with diabetic nephropathy evaluated by pharmacological stress 13N-ammonia PET Myocardial perfusion imaging. P126
S. Ohshima, M. Nishio, A. Kojima, S. Tamai, T. Kobayashi, T. Murohara (Nagoya, JP)
- Isolated perfusion abnormalities of the interventricular septum. P127
S. Burrell (Halifax, CA)
- Heart rate response during adenosine stress myocardial perfusion computed tomography. P128
A. Van Rosendaal, I. Van Den Hoogen, M.A. De Graaf, J. Roelofs, L.J. Kroft, J.J. Bax, A.J. Scholte (Leiden, NL)
- Role of myocardial perfusion imaging in case of myocardial bridging. P129
I. Rjabceva, G. Krumina, A. Kalvelis (Riga, LV)
- The prognostic value of myocardial perfusion imaging on management in elderly patients undergoing non-cardiac surgery. P130
F. Chanakhchyan, M. Vakhromeeva, E. Kankiya (Moscow, RU)
- 13NH3 PET/CT measured myocardial blood flow in correlation to coronary calcium score. P131
J.C.C. Koppes, R.J.J. Knol, M. Wondergem, T. Van Der Ploeg, F.M. Van Der Zant (Alkmaar, NL)
- Effect of residual activity correction for static 13NH3 myocardial perfusion PET images on semi-quantitative analysis. P132
S. V. Lazarenko, V. S. Bruin, X. B. Pan, J. M. Declerck, F. M. Van Der Zant, R. J. J. Knol (Alkmaar, NL; Oxford, GB)
- Quantitative myocardial perfusion PET predicts ventricular function and phase synchrony: a 13N-ammonia study. P133
L. E. Juarez-Orozco, E. Alexanderson, R.H.J.A. Slart, R.A. Tio, R.A. Dierckx, C.J. Zehebregts, H.H. Boersma, H.L. Hillege, M.M. Martinez-Aguilar, A. Jordan-Rios (Groningen, NL; Mexico City, MX)

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Increased basal perfusion in Takotsubo cardiomyopathy: an imaging study with quantitative cardiac positron emission tomography. P134

T. E. Christensen, K. A. Ahtarovski, L. E. Bang, L. Holmvang, H. Soeholm, A. A. Ghotbi, H. Andersson, N. Ihlemann, A. Kjaer, P. Hasbak (Copenhagen, DK)

Molecular imaging

Metabolic scintigraphy with 123I-BMIPP in prognosis of cardiac resynchronization therapy in patients with non-ischemic cardiomyopathy. P135

M. Gulya, Y. B. Lishmanov, K.W. Zavadovskii, D.I. Lebedev (Tomsk, RU)

Glucagon-like peptide-1 receptor is expressed in atherosclerotic vascular lesions: an animal study using 68Ga-NODAGA-Exendin-4 PET and immunohistochemistry. P136

M. Stahle, S. Hellberg, H. Liljenback, J. Virta, O. Metsala, S. Yla-Herttuala, P. Saukko, J. Knuuti, A. Saraste, A. Roivainen (Turku and Kuopio, FI)

¹¹C-Methionine as a molecular imaging marker of tissue inflammation after infarction - a comparison with ¹⁸F - fluorodeoxyglucose. P137

J.T. Thackeray, Y. Wang, J.P. Bankstahl, K.C. Wollert, F.M. Bengel (Hannover, DE)

Scintigraphy with 123I - metaiodobenzilguanidine in assessing of the cardiac denervation after radiofrequency ablation of atrial fibrillation. P138

Y.U. Saushkina, V. Evtushenko, S. Minin, I. Efimova, A. Evtushenko, K. Smishlyaev, Y.U. Lishmanov, L. Maslov (Tomsk, RU)

Standardization of cardiac I-123 metaiodobenzilguanidine washout rates derived from late 3 and 4 hours imaging. P139

K. Okuda, K. Nakajima, Y. Kirihaara, S. Sugino, S. Matsuo, J. Taki, M. Hashimoto, S. Kinuya (Ishikawa, Kanazawa, Tokyo and Okayama, JP)

Comparison of measures of FDG uptake on FDG PET/CT for assessing treatment response to immunosuppression in cardiac sarcoidosis. P140

A. Ahmadian, J. Berman, P. Govender, F. Ruberg, E. Miller (Boston, US)

FDG-PET for diagnosing suspected inflammatory cardiomyopathies : comparison with the classical PET pattern of cardiac sarcoidosis. P141

N. Piriou, A. Pallardy, F. Valette, Z. Cahouch, C. Mathieu, K. Warin-Fresse, J.P. Gueffet, J.M. Serfaty, J.N. Trochu, F. Kraeber-Bodere (Nantes, FR)

Technical

Clinical value of attenuation correction in stress-only myocardial perfusion imaging using CZT - SPECT. P142

J.D. Van Dijk, M. Mouden, J.P. Ottervanger, J.A. Van Dalen, P.L. Jager (Zwolle, NL)

Correlation of right ventricular ejection fraction by first pass radionuclide angiography prior to gated SPECT and echocardiographic variables of right heart in patients with heart failure. P143

N. Zafir, H. Ofri, M. Vaturi, T. Shochat, Y. Hassid, D. Belzer, A. Sagie, R. Kornowski (Petah Tikva, IL)

Comparison of stress-only and stress-rest gated SPECT imaging: higher incidence of cardiac hard events in diabetic patients who underwent full stress-rest imaging. P144

M. Kaminek, I. Metelkova, M. Budikova, P. Koranda, L. Henzlova, E. Sovova, V. Kincl, A. Drozdova (Olomouc and Brno, CZ)

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The use of CT coronary angiography as a primary preventative strategy in patients with familial hypercholesterolaemia: a prospective introductory clinical study with a review of current literature. P145
M. Jordan, F. Shahid, Y.P. Teoh, R. Thamen (Wrexham, GB)

Development of two-layered cardiac dynamic phantom made of special rubber. P146
N. Hara, M. Onoguchi, O. Hojyo, Y. Kawaguchi, M. Murai, F. Udaka, Y. Matsuzawa (Osaka and Kanazawa, JP)

Radiation dose saving using a Normal stress only myocardial perfusion analysis protocol. P147
D. S. Bulughapitiya, M. Avison, J. Martin (Bradford, GB)

Planar versus SPECT quantification of the heart-to-mediastinum ratio from I-123-MIBG sympathetic cardiac SPECT imaging: accuracy as assessed by computer simulations. P148
Y. H. Liu, J. Wu, C. Liu, A. Sinusas (New Haven, US)

Data-driven respiratory-motion correction of myocardial perfusion SPECT with Discovery NM 530c: does it impact the extent/severity of myocardial perfusion defects? P149
D. Daou, R. Sabbah, H. Bouladhour, C. Coaguila (Paris, Besançon and Tarbes, FR)

Gated-PET and gated-SPECT same day evaluation of left ventricular quantitative values in patients with systolic dysfunction. P150
S. Aguade-Bruix, M.N. Pizzi, G. Romero-Farina, J. Candell-Riera, J. Castell-Conesa (Barcelona, ES)

New generation general-purpose SPECT/CT myocardial perfusion imaging improves diagnostic accuracy and reduces radiation exposure compared to traditional SPECT. P151
N. Patchett, A. Sverdlow, E. Miller (Boston, US)

Myocardial perfusion SPECT imaging with Discovery NM 530c: is data-driven respiratory-motion correction successful? P152
D. Daou, R. Sabbah, H. Bouladhour, C. Coaguila (Paris, Besançon and Tarbes, FR)

Poster Case Session I

A rare case of coronary artery fistula presented with acute myocardial infarction. P153
O. Smettei, R. Abazid (Qassim, SA)

Acute aortic syndrome mimicking myocardial infarction. P154
S. Boulaamayl El Fatemi (Rabat, MA)

Atrial septal defect with rupture aneurysm of sinus of valsalva into the right atrium. P155
L. Sallam (Alexandria, EG)

Aortic valve calcium score in the diagnosis of severe aortic valve stenosis. P156
D. Snipelisky, J.Y.P. Park, J.C.R. Ray, B.S. Shapiro (Rochester and Jacksonville, US)

Diagnostic value of 99mTc-HMPAO-WBC scintigraphy SPECT/CT in assessment of prosthetic valve endocarditis. P157
M. Kostkiewicz, W. Szot, K. Holcman, A. LesniakSobelga, P. Podolec (Krakow, PL)

Relativity theory applied to myocardial perfusion PET. P158
O.F. Clerc, M. Possner, R. Liga, J. Vontobel, F. Mikulicic, C. Graeni, D.C. Benz, B.A. Herzog, O. Gaemperli, P.A. Kaufmann (Zurich, CH)

08:30-10:00 // Symposium

Room Roma

Novel clinical applications of nuclear cardiology

Chairperson(s): N. Tamaki (Sapporo, JP); S. R. Underwood (London, GB)

08:30	FDG PET in the diagnosis and management of patients with cardiac sarcoidosis. M. Miyagawa (Toon, JP)	159
08:52	Advances in cardiac amyloidosis imaging. S. Dorbala (Lexington, US)	160
09:15	Promising role of radionuclide imaging in the management of prosthetic device. D. Le Guludec (Paris, FR)	161
09:37	Value based imaging in Nuclear cardiology & cardiac CT. D. Berman (Los Angeles, US)	162

08:30-10:00 // Symposium

Room Milan

Translational radiotracers for nuclear cardiology

Supported by Lantheus Medical Imaging

Chairperson(s): P. Soman (Pittsburgh, US); A. Sinusas (New Haven, US)

08:30	SPECT and PET tracers for myocardial innervation: MIBG/HED. I. Carrio (Barcelona, ES)	163
08:48	Novel PET perfusion and fatty acid tracers. J. Maddahi (Los Angeles, US)	164
09:06	Novel SPECT perfusion tracers under development. T.D. Ruddy (Ottawa, CA)	165
09:24	Apoptosis, Somatostatin receptor and other novel imaging agents. J. Taki (Kanazawa, JP)	166
09:42	ACE and AT1R cardiac imaging. V. Dilsizian (Baltimore, US)	167

08:30-10:00 // Read with the Experts

Room Venecia

Radionuclide imaging in heart failure

Chairperson(s): M. Sciammarella (Paola, IT); J. E. Udelson (Boston, US)

08:30	Viability: PET. P. Chareonthaitawee (Rochester, US)	168
09:00	Viability: SPECT. M. Travin (Bronx, US)	169
09:30	MIBG imaging. T. Nakata (Sapporo, JP)	170

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10:00-11:00 // Clinical Cases

Room Venecia

Clinical Case Session II

Chairperson(s): A. J. Einstein (New York, US); N. Zafrir (Petah Tikva, IL)

Best Clinical Cases submitted are retained for presentation in highly interactive and educational sessions. Trainees and Young clinicians will present their cases and experts will be asked to moderate the sessions, facilitate interaction with the audience, prompt discussions, challenge the presenters and the audience. The main objective of the session is to learn from challenging clinical case scenarios.

- | | | |
|-------|---|-----|
| 10:00 | Bland-White-Garland syndrome: pivotal role of computed tomographic angiography.
M. C. Ziadi, J.L. Ameriso, L. Diodato, R.L. Villavicencio (ROSARIO and Rosario, AR) | 171 |
| 10:10 | Fallot's tetralogy with left pulmonary artery origin from aortic arch.
L. Sallam (Alexandria, EG) | 172 |
| 10:20 | Anomalous circumflex coronary artery arising from the pulmonary artery: anatomic and physiologic imaging.
M. Bligh, S. Burrell, C. Hancock Friesen, N. Nadeem, C. Lo (Halifax, CA) | 173 |
| 10:30 | Cardiac computed tomography role in complications of infective endocarditis.
S. Prado Diaz, E. Refoyo Salicio, S.C. Valbuena Lopez, D. Gemma, M. Moreno Yanguela, J.L. Lopez-Sendon, M. Torres, E. Cuesta, G. Guzman Martinez (Madrid, ES) | 174 |
| 10:40 | Serial PET imaging in management of cardiac sarcoidosis.
N.R. Aggarwal, D. Snipelisky (Rochester, US) | 175 |
| 10:50 | 18F-FDG PET/CT usefulness in management of a patient with a pseudoaneurysm around aorta prosthesis.
A. Di Palo, A. Niccoli Asabella, A. Notaristefano, C. Ferrari, C. Altini, N. Merenda, G. Rubini (Bari, IT) | 176 |

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Moderated Poster session 3

Chairperson: H.J. Verberne (Amsterdam, NL)

Posters are on display in the poster area from 08:30 until 12:30. Each poster presenter will have 5 minutes to briefly summarize their poster to the moderators in front of a dedicated audience. A question-and-answer period of 2 minutes follows each presentation.

Risk stratification by MIBG uptake in heart failure: implications of a diagnostic gray zone on clinical decision making. 177

T. Pellegrino, M. Petretta, A. Boemio, V. Piscopo, R. Carotenuto, B. Russo, S. Pellegrino, G. De Matteis, A. Cuocolo (Naples, IT)

Detection of myocardial infarct scar with ¹¹C-acetate and ¹⁵O-water PET in comparison with histology in an experimental model of chronic myocardial infarction. (W)178

M. Tarkia, C. Stark, M. Haavisto, T. Savunen, V. Saunavaara, T. Tolvanen, M. Pietila, A. Roivainen, A. Saraste, J. Knuuti (Turku, FI)

Head to head comparison of cardiac positron emission tomography and magnetic resonance imaging for the assessing myocardial viability in patients with chronic totally occluded coronary arteries. 179

D. V. Ryzhkova, I.S. Kostina (Saint Petersburg, RU)

Myocardial ¹²³I-MIBG scintigraphy for assessing the progression of sympathetic denervation and the impact of liver transplantation in patients with familial amyloid polyneuropathy. 180

M.C. Azevedo Coutinho, N. Cortez-Dias, G. Cantinho, T. Guimaraes, G.L. Silva, M.N. Menezes, A.R. Francisco, R. Placido, I. Conceicao, F. Pinto (Lisbon, PT)

I-123 meta-iodobenzylguanidine imaging is effective for both long-term and short-term prognostic evaluation. 181

K. Nakajima, T. Nakata, S. Matsuo, A. Jacobson (Kanazawa and Hakodate, JP; Kihei, HI, US)

Phase analysis of radionuclide ventriculography: assessment of herceptin cardiotoxicity. 182

C. A. Paterson, A. J. Al Jabri, J. Robinson, W. Martin, S. Reid, S. A. Smith (Glasgow, GB)

Quantification of cardiopulmonary blood volume turnover using dynamic PET. 183

H.J. Harms, L.P. Tolbod, T. Kero, K. Bouchelouche, J. Frokiaer, J. Sorensen (Aarhus, DK; Uppsala, SE)

BMIPP metabolic imaging can distinguish Takotsubo cardiomyopathy from acute myocardial infarction. 184

S. Matsuo, K. Nakajima, S. Kinuya, M. Yamagishi (Kanazawa, JP)

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11:00-12:30 // Symposium

Room **Roma**

Role of nuclear cardiology and cardiac CT in assessing prognosis

Chairperson(s): M. Hacker (Vienna, AT); P. Smanio (Sao Paulo, BR)

11:00	Chronic stable CAD: is nuclear perfusion imaging still the major player? M. J. Zellweger (Basel, CH)	185
11:22	Role of CT in assessing prognosis. K. Nieman (Rotterdam, NL)	186
11:45	Asymptomatic individuals: when nuclear—when CT—when neither? J. J. Mahmarian (Houston, US)	187
12:07	Prognostic role of MIBG in heart failure. H.J. Verberne (Amsterdam, NL)	188

11:00-12:30 // Symposium

Room **Milan**

Important clinical trials and registries in nuclear cardiology and cardiac CT II

Chairperson: L. J. Shaw (Atlanta, US)

11:00	PROMISE. J. E. Udelson (Boston, US)	189
11:15	ISCHEMIA trial. D. Berman (Los Angeles, US)	190
11:30	Image HF trial. R. Beanlands (Ottawa, CA)	191
11:45	GLOBAL study. P. Maurovich-Horvat (Budapest, HU)	192
12:00	EXERRT Study: Regadenoson during exercise recovery. G. S. Thomas (Long Beach, US)	193
12:15	Image guide-ASNC registry. P. Tilkemeier (Greenville, US)	194

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11:00-12:30 // Symposium

Room **Venecia**

Quantitative myocardial perfusion imaging: new developments and future directions

Chairperson(s): T. M. Bateman (Kansas City, US); F. M. Bengel (Hannover, DE)

11:00	Radionuclide imaging - PET. M. F. Di Carli (Boston, US)	195
11:18	Radionuclide imaging - SPECT. A. Sinusas (New Haven, US)	196
11:36	Cardiac CT. M. S. Bittencourt (Sao Paulo, BR)	197
11:54	MRI. E. Nagel (London, GB)	198
12:12	Echocardiography. R. Senior (London, GB)	199

MONDAY 4 MAY 2015 // LUNCH TIME SESSIONS

12:35-13:35 // Satellite Symposium

Room **Venecia**

The role of nuclear cardiology in optimizing diagnosis and risk assessment in heart failure patients

Sponsored by GE Healthcare

Chairperson: H.J. Verberne (Amsterdam, NL)

12:35	Clinical perspective of heart failure: patient management needs. F. Ridocci Soriano (Valencia, ES)	200
12:55	Role of myocardial perfusion and sympathetic innervation with ¹¹ C-mIBG in supporting clinical decision making. A. Gimelli (Pisa, IT)	201
13:15	Relevance of a multidisciplinary approach in heart failure. H.J. Verberne (Amsterdam, NL)	202
13:25	Questions & Answers.	203

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MONDAY 4 MAY 2015 // AFTERNOON SESSIONS

14:00-15:30 // Symposium

Room **Roma**

All about stress agents, protocols and reporting

Chairperson(s): C. Anagnostopoulos (Athens, GR); W. Acampa (Naples, IT)

- | | | |
|-------|---|-----|
| 14:00 | Exercise stress test: interpretation and beyond ST segments.
T. Miller (Rochester, US) | 206 |
| 14:18 | Pharmacologic stress agents without and with adjunctive exercise.
E. Reyes (London, GB) | 207 |
| 14:36 | Effective management of stress lab emergencies.
A. N. Kitsiou (Athens, GR) | 208 |
| 14:54 | Conventional and novel imaging protocols for SPECT MPI.
S. Graf (Vienna, AT) | 209 |
| 15:12 | Standardised reporting of stress testing and radionuclide myocardial perfusion imaging.
D. Polk (Boston, US) | 210 |

14:00-15:30 // Symposium

Room **Milan**

Nuclear cardiology and cardiac computed tomography: imaging-guided therapy

Joint session with the Society of Cardiovascular Computed Tomography (SCCT)

Chairperson(s): R. Cury (Miami, US); D. Neglia (Pisa, IT)

- | | | |
|-------|---|-----|
| 14:00 | What is the best strategy in women with suspected CAD: SPECT MPI / CCTA / Other?
J. H. Mieres (Lake Success, US) | 211 |
| 14:22 | Image guidance of medical therapy for primary prevention – are we there yet and what does the data say?
R. Blankstein (Boston, US) | 212 |
| 14:45 | The appropriate use of nuclear cardiology and CT coronary angiography.
R. C. Hendel (Miami, US) | 213 |
| 15:07 | Imaging-guided therapy in coronary artery disease. Does it change outcomes?
R. Gibbons (Rochester, US) | 214 |

14:00-15:30 // Read with the Experts

Room **Venecia**

Cases from conventional and novel nuclear cardiology technology

Chairperson(s): P. Marzullo (Pisa, IT); A. J. H. A. Scholte (Leiden, NL)

- | | | |
|-------|---|-----|
| 14:00 | Reading cases with the new solid state cameras. Comparison with “traditional” SPECT cameras.
J. Arrighi (Providence, US) | 215 |
| 14:30 | Are there new, different artefacts when using the new solid state cameras and software?
S. R. Underwood (London, GB) | 216 |
| 15:00 | “New” and “old” in the developing world.
J. V. Vitola (Curitiba, BR) | 217 |

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Moderated Poster session 4

Chairperson(s): J. H. Mieres (Lake Success, US); H. J. Ukkonen (Turku, FI)

Posters are on display in the poster area from 14:00 until 18:00. Each poster presenter will have 5 minutes to briefly summarize their poster to the moderators in front of a dedicated audience. A question-and-answer period of 2 minutes follows each presentation.

Assessment of sympathetic reinnervation after transient myocardial ischemia by C11 hydroxyephedrine PET imaging. 218

R. A. Werner, Y. Maya, T. Yamane, C. Rischpler, K. Fukushima, X. Chen, C. Lapa, K. Herrmann, T. Higuchi (Würzburg and Munich, DE)

In vivo non-invasive evaluation of therapeutic hydrogels for modulation of post infarction remodeling: role of MMP - targeted SPECT myocardial imaging in a chronic porcine model. 219

S. Thorn, M.R. Stacy, B.P. Purcell, H. Doviak, J.A. Shuman, E. Perez, J.A. Burdick, F.G. Spinale, A.J. Sinusas (New Haven, Philadelphia and Columbia, US)

Quantification cardiac amyloid by cardiac computed tomography. 220

T. Treibel, S. Bandula, M. Fontana, S.K. White, J.A. Gilbertson, S.A. Punwani, J.D. Gillmore, P.N. Hawkins, S.A. Taylor, J.C. Moon (London, GB)

Simultaneous multi-isotope imaging for leukocyte tracking using dedicated cardiac CZT SPECT: A new approach to reveal foci of endocarditis. 221

F. Caobelli, T. Wollenweber, C. Kuehn, U. Bavendiek, C. Schuetze, L. Geworski, J. Bauersachs, A. Haverich, F.M. Bengel (Hannover, DE)

Quantitative assessment of coronary plaques in patients with acute coronary syndrome without persistent segment ST elevation by multidetector computed tomography. 222

N. Barysheva, I.N. Merkulova, M.S. Shabanova, S.A. Gaman, T.N. Veselova, M.A. Shariya (Moscow, RU)

Extent and prognostic significance of scar and inducible ischaemia following primary PCI for STEMI with multivessel disease: insights from the CvLPRIT Nuclear Substudy. 223

A. D. Kelion, M. Pakkal, F. Chowdhury, N. Nagaraj, J. Birchall, K. Dixon, W. Banya, G. Mccann, A. Gershlick (Oxford, Leeds, Southampton, Derby, Poole, London and Leicester, GB; Toronto, CA)

Microvascular obstruction and left ventricular thrombi after acute myocardial infarction are associated with an increased inflammatory response. 224

C. Rischpler, R.J. Dirschinger, S. Nicolosi, H. Kossmann, A. Meinicke, F. Hanus, K. Goetze, K.L. Laugwitz, M. Schwaiger, S.G. Nekolla (Munich, DE)

Hybrid F-18-FDG PET/MRI after acute myocardial infarction: characterization of a novel biosignal. 225

C. Rischpler, R.J. Dirschinger, S. Nicolosi, H. Kossmann, A. Meinicke, F. Hanus, K. Goetze, K.L. Laugwitz, M. Schwaiger, S.G. Nekolla (Munich, DE)

16:30-18:00 // Symposium

Room **Roma**

Multi-modality non-invasive imaging of myocardial viability: current techniques and future developments

Chairperson(s): D. Delbeke (Nashville, US); T. Edvardsen (Oslo, NO)

16:30	SPECT and PET. N. Tamaki (Sapporo, JP)	226
16:52	CMR and CT. H. Thiele (Leipzig, DE)	227
17:15	Echocardiography. M. Garbi (London, GB)	228
17:37	Role of viability imaging in clinical practice. To be announced	229

16:30-18:00 // Symposium

Room **Milan**

Hybrid PET/MR cardiovascular imaging: promise and potential

Chairperson(s): J.M. Knuuti (Turku, FI); T. H. Schindler (Baltimore, US)

16:30	An overview of technology. S. Nekolla (Munich, DE)	230
16:52	Clinical applications. R. Gropler (St. Louis, US)	231
17:15	Hybrid versus sequential imaging. P. A. Kaufmann (Zurich, CH)	232
17:37	Strengths and weaknesses of PET/MR compared to PET/CT. C. Bucciarelli-Ducci (Bristol, GB)	233

16:30-18:00 // Symposium

Room **Venecia**

Advances in cardiac CT

Chairperson(s): R. Blankstein (Boston, US); P. Maurovich-Horvat (Budapest, HU)

16:30	Low and ultra-low dose coronary CTA. B. J. Chow (Ottawa, CA)	234
16:52	Use of CAC in asymptomatic patients. K. A. Williams (Chicago, US)	235
17:15	CT coronary angiography: implications for patient management based FFR: opportunities and challenges. K. Nieman (Rotterdam, NL)	236
17:37	CT angiography in the emergency room: what is the key to successful implementation? R. Cury (Miami, US)	237

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Poster session 2

Presenters will be by their poster during the coffee breaks from 10:00 to 11:00 and from 15:30 to 16:30 to discuss the poster with the audience.

Cost effectiveness/Prognosis

- Critical role of SPECT MPI in defining best therapeutic procedure in developing world. P238
S. E. Bouyoucef (Algiers, DZ)
- Computed tomography angiography derived risk score in the assessment of the prognosis of coronary artery disease. P239
V. Uusitalo, V. Kamperidis, M.A. De Graaf, T. Maaniitty, I. Stenstrom, A. Broersen, A.J. Scholte, A. Saraste, J.J. Bax, J. Knuuti (Turku, FI; Leiden, NL)
- Usefulness of stress myocardial perfusion imaging and baseline clinical factors for predicting cardiovascular events in patients with peripheral artery disease. P240
T. Furuhashi, M. Moroi, T. Awaya, H. Masai, M. Minakawa, T. Kunimasa, H. Fukuda, K. Sugi (Tokyo, JP)
- Apoptotic microparticles to mononuclear progenitor cells ratio as a novel biomarker in advanced heart failure patients. P241
A. Berezin, A. Kremzer (Zaporozhye, UA)
- Long-term prognostic value of prospectively ECG-triggered low-dose coronary CT angiography. P242
O.F. Clerc, B. Kaufmann, M. Possner, R. Liga, J. Vontobel, F. Mikulicic, C. Graeni, D.C. Benz, P.A. Kaufmann, R.B. Buechel (Zurich, CH)
- Normal stress-only gated-SPECT myocardial perfusion imaging in women: is this result related with a good outcome? P243
M.J.V. Ferreira, M.J. Cunha, A. Albuquerque, D. Ramos, G. Costa, J. Lima, M. Pego (Coimbra, PT)
- Prognostic value of gated-SPECT myocardial perfusion imaging in women with acute coronary syndrome. P244
A. Peix, L. Cisneros, L.O. Cabrera, K. Padron, L. Rodriguez, F. Heres, R. Carrillo, E. Mena, Y. Fernandez (Havana, CU)

Cardiac CT

- Efficacy of oral pre-scan diazepam as an additional heart rate reducing agent to improve image quality in CTCA. P245
E.D. Huizing, J.D. Van Dijk, J.A. Van Dalen, J.R. Timmer, J.P. Ottervanger, C.H. Slump, P.L. Jager (Zwolle and Enschede, NL)
- Image noise in non-contrast coronary artery calcium scan is predictive of a non-diagnostic CT coronary angiogram in obese subjects. P246
S. Venuraju, A. Jeevarethinam, A. Yerramasu, S. Atwal, V.S. Mehta, A. Lahiri (London and Edinburgh, GB)
- New strategy in CT dose reduction in prospective coronary CT for minimizing coverage. P247
A. Arjonilla Lopez, M. J. Calero Rueda, G. Gallardo, J. Fernandez-Cuadrado, D. Hernandez Aceituno, J. Sanchez Hernandez (Mostoles, ES)
- Evaluation of variable pitch helical CT scanning after CABG operation. P248
H. Yoshida, A. Mizukami, A. Matsumura (Kamogawa, JP)

The prevalence of coronary artery anomalies detected by cardiac computed tomography angiography. P249

O. Smettei, R. Abazid, S. Sayed (Qassim, SA)

Tortuosity of the coronary arteries in cardiac computed tomography. P250

A. Mlynarska, R. Mlynarski, K. Golba, M. Sosnowski (Katowice, PL)

Impact of clinical risk factors and coronary calcium score on cardiovascular screening strategies before kidney transplantation. P251

S. Winther, M. Svensson, H.S. Jorgensen, K. Bouchelouche, L.C. Gormsen, N.R. Holm, H.E. Botker, P.R. Ivarsen, M. Bottcher (Aarhus and Herning, DK)

Anatomic and functional discordance in coronary artery disease: role of SPECT and CTA fused images. P252

C. M. Cortes, E.N. Aramayo G, M. Daicz, J.F. Casuscelli, E.D. Alaguibe, A. Neira Sepulveda, M. Cerda, G.E. Ganum, M. Embon (Buenos Aires, AR)

Exercise/Stress

Prospective evaluation of early and delayed tolerance of regadenoson in patients suspected of CAD ineligible for conventional stress testing. P253

J. Vigne, B. Enilorac, A. Lebasnier, L. Valancogne, D. Peyronnet, A. Manrique, D. Agostini (Caen, FR)

Stress test with nuclear imaging is insufficient to rule out ischemic heart disease in patients with left ventricular dysfunction of unknown etiology. P254

D. Menendez, S. Rajpal, C. Kocherla, M. Acharya, P. Reddy (Shreveport, US)

General

The utility of 99mTc-PYP-SPECT in diagnosis of latent myocarditis in patients with atrial fibrillation. P255

I. Sazonova, Y.U.N. Ilushenkova, R.E. Batalov, Y.V. Rogovskaya, Y.B. Lishmanov, S.V. Popov, N.V. Varlamova (Tomsk, RU)

Incidental findings in cardiac computed tomography. P256

S. Prado Diaz, C. Jimenez Rubio, D. Gemma, E. Refoyo Salicio, S.C. Valbuena Lopez, M. Moreno Yanguela, M. Torres, M. Fernandez-Velilla, J.L. Lopez-Sendon, G. Guzman Martinez (Madrid and Malaga, ES)

Non invasive evaluation of silent myocardial ischemia in a group of mexican patients with rheumatoid arthritis and traditional cardiovascular risk factors. P257

A. Puente, S. Rosales, C. Martinez, M. Cabada, G.M. Melendez (Mexico City, MX)

Situs inversus and Pulmonary Embolism - case report. P258

R. Ferreira, A. Gonzaga, J. Santos (Aveiro, PT)

Normal SPECT MPI predicts long term event free survival in younger patients - Results from a 10 year follow-up study. P259

S. Vijayan, S.M.G. Smith, M. Smith, R. Muthusamy (Rotherham, GB)

Epicardial adipose tissue assessed by cardiac CT reflects the presence of coronary artery disease: comparisons with abdominal visceral adipose tissue. P260

Y. Takeishi, M. Oikawa (Fukushima, JP)

Psychosocial risk factors in non Diabetic patients, Gated Spect findings and silent ischemia. P261

J. L. Goral, J. Napoli, O.R. Montana, A.C. Damico, M.C. Quiroz, A.E. Damico, P.J. Forcada, J.M. Schmidberg, N.E. Zucchiatti, D.B. Olivieri (Ramos Mejia, Buenos Aires and Ramos Mejia, Buenos Aires, Argentina, AR)

Carotid plaque predicts severity of coronary artery calcification in asymptomatic diabetics. P262

A. Jeevarethinam, S. Venuraju, A. Dumo, S. Ruano, R. Rakhit, J. Davar, D. Nair, M. Cohen, D. Darko, A. Lahiri (London, GB)

Women with normal myocardial perfusion findings have less severe, but not less intermediate coronary artery stenoses. P263

S. Yokota, J.P. Ottervanger, A.H.E. Maas, M. Mouden, J.R. Timmer, S. Knollema, P.L. Jager
(Zwolle and Nijmegen, NL)

The effects of athletic training and body composition on pulmonary function in different type of sports. P264

S.M. Sanja Mazic, B. Lazovic, M.D.J. Marina Djelic, J.S. Jelena Suzic Lazic, T.A. Tijana Acimovic, M.D. Milica Deleva
(Belgrade and Belgrade, RS)

Heart Failure

Dynamic renoscintigraphy in the evaluation of renal function in patients with chronic heart failure. P265

Z.H. Vesnina (Tomsk, RU)

Right ventricular ejection fraction by first pass radionuclide angiography and gated SPECT myocardial perfusion imaging in patients with heart failure: one center experience. P266

N. Zafir, T. Bental, I. Mats, A. Solodky, A. Gutstein, Y. Hasid, D. Belzer, R. Kornowski (Petah Tikva, IL)

Dobutamine-atropine stress echocardiography versus dipyridamole sestamibi scintigraphy for the detection of myocardial ischemia. P267

R. Ben Said, N. Ben Mansour, H. Ibn Haj Amor, C. Chourabi, A. Hagui, W. Fehri, H. Hawala (Tunis, TN)

Endovascular treatment of patients with postinfarction cardiosclerosis: is it always justified percutaneous coronary intervention? P268

Z. Shugushev, A. Patrikeev, D. Maximkin, A. Chepurnoy, V. Kallianpur, A. Mambetov, G. Dokshokov
(Moscow, RU)

Iodine 123 - metaiodobenzylguanidine cardiac SPECT imaging in nondiabetic heart failure patients qualified for an implantable cardioverter defibrillator. P269

A. Teresinska, O. Wozniak, A. Maciag, J. Wnuk, A. Dabrowski, A. Czerwec, J. Jezierski, K. Biernacka (Warsaw, PL)

Assessment of the variability of Left Ventricular Ejection Fraction (LVEF) between software algorithms in Radionuclide Ventriculography (RNVG). P270

J. Robinson, J. Prosser, G.S.M. Cheung, S. Allan, G. McMaster, S. Reid, A. Tarbuck, W. Martin (Glasgow, Inverness and Aberdeen, GB)

Are there any differences of left ventricle ejection fraction as assessed by either 82-rubidium-PET imaging or 99m-Tc-SPECT? P271

R.C. Queiroz, A. Falcao, M.C.P. Giorgi, R. Imada, S.A. Nogueira, W.A. Chalela, R. Kalil Filho, W.A. Meneghetti (Sao Paulo, BR)

The application of the cardiac cycle time indicators obtained by planer equilibrium radionuclide ventriculography in the diagnostics of diastolic dysfunction in patients with arterial hypertension. P272

V.V. Matveev, A.S. Bubyenov, V.I. Podzolkov (Moscow, RU)

Ischemia

Three-year results of stenting of bifurcation stenoses of the left main coronary artery: data of intravascular ultrasound study. P273

Z. Shugushev, D. Maximkin, A. Chepurnoy, V. Baranovich, A. Faibushevich, Y. Kolzhecova, O. Volkova, V. Kallianpur (Moscow, RU)

Impact of coronary artery calcification on percutaneous coronary intervention and post-procedural complications. (W)274

R. Abazid, O. Smettei, Y. Bashir, M.O. Kattea, S. Sayed, H. Saker (Burydah, SA)

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Multicenter study of the ability of nuclear technologists and automated quantification to determine the need for rest imaging after stress-first myocardial perfusion imaging (MPI). (W)275
W. Chaudhry, N. Hussain, A. Ahlberg, P. Slomka, M. Henzlova, L. Duvall (Hartford, Los Angeles and New York, US)

Early gated-SPECT perfusion imaging and intraventricular synchronism in patients with coronary artery disease. P276
A. Peix, L.O. Cabrera, K. Padron, L. Rodriguez, J. Fernandez, G. Lopez, E. Mena, Y. Fernandez, M. Dondi, D. Paez (Havana, CU; Vienna, AT)

The addition of coronary calcium score to stress myocardial perfusion scintigraphy increases confidence in identifying normal perfusion in patients referred to a stable chest pain clinic. P277
C.J.T. Butcher, E. Reyes, M.B. Al-Housni, R. Green, H. Santiago, F. Ghiotto, S. Hinton-Taylor, A. Pottle, M. Mason, S.R. Underwood (London, GB)

Comparison of dyssynchrony parameters obtained by simultaneous acquisition with 8 and 16 frames/cycle in Gated SPECT myocardial perfusion (GSPECT). P278
I. Casans Tormo, R. Diaz-Exposito, E. Plancha-Burguera (Valencia and Gandia, ES)

Additional role of wall motion assessment by 99mTc-sestamibi gated SPECT in patients with coronary artery disease. Comparison with resting echocardiography. P279
K. Elsaban, H. Alsakhri (Taif and Taif, SA)

Microvascular disease

Comprehensive assessment of impaired coronary and peripheral artery vascular function in smokers using Oxygen -15 Labeled Water PET and Brachial Artery Ultrasound. P280
K. Yoshinaga, N. Ochi, Y. Tomiyama, C. Katoh, M. Inoue, M. Nishida, E. Suzuki, O. Manabe, Y.M. Ito, N. Tamaki (Sapporo, JP)

A rare report on exceptional case of massive pericardial effusion diagnosed incidentally on myocardial perfusion imaging. P281
A. Tahilyani, F.A.H.I.M. Jafary, H.H. Ho Hee Hwa (Singapore, SG)

The evaluation of left ventricular dyssynchronization in patients with hypertension by phase analysis of myocardial perfusion gated spect. P282
S. Ozdemir, B. Kirilmaz, A. Barutcu, Y.Z. Tan, F. Celik, S. Sakgoz (Canakkale, TR)

Gated-SPECT ischemia in left anterior descending coronary artery territory secondary to myocardial muscular bridges. P283
M. Cabada Gamboa, A. Puente Barragan, N. Morales Vitorino, M.A. Medina Servin (Mexico City, MX)

The absolute myocardial blood flow determined by dynamic cardiac 13N-NH3 PET is influenced by the partial volume effect. P284
C. Hindorf, S. Akil, F. Hedeer, J. Jogi, H. Engblom (Lund, SE)

Cold pressor test as stress test in myocardial perfusion studies evidences higher amount of ischemia in patients with intermediate coronary lesions. P285
V.D. Martire, E.R. Pis Diez, M.V. Martire, D.O. Portillo (La Plata, Buenos Aires., AR)

Quantitative perfusion parameters in a cohort of patients with no known ischemic heart disease and normal myocardial perfusion imaging studied by 82Rb-PET. P286
C.M. Hoff, A. Balche, J. Majgaard, L.P. Tolbod, H.J. Harms, K. Bouchelouche, J. Soerensen, J. Froekiaer, L.C. Gormsen (Aarhus, DK)

Prognostic impact of location and extent of vessel-related ischemia (VRI) at myocardial perfusion scintigraphy in patients with or at risk for coronary artery disease. P287
F. Nudi, G. Neri, E. Procaccini, A. Pinto, M. Vetere, G. Biondi-Zoccai (Rome and Latina, IT)

Influence of left bundle branch block in assessment of coronary flow from rubidium-82 PET imaging. P288

A. Falcao, W.A. Chalela, M.C.P. Giorgi, R. Imada, J. Soares Jr, R. Do Val, M.A. Oliveira, R. Kalil Filho, J.C. Meneghetti (Sao Paulo, BR)

Molecular imaging

Treatment with anti-RAGE antibody improves hind limb angiogenesis and blood flow in diabetic mice with left femoral artery ligation. P289

Y. Tekabe, T. Anthony, Q. Li, A.M. Schmidt, L. Johnson (New York, US)

Detection of increased myocardial integrin $\alpha V\beta 3$ expression in a pig model of inducible myocardial ischemia using [68Ga]-NODAGA-RGD PET. P290

M. Groenman, M. Tarkia, M. Kakela, P. Halonen, T. Kiviniemi, M. Pietila, S. Yla-Herttuala, J. Knuuti, A. Roivainen, A. Saraste (Turku and Kuopio, FI)

Characterization of the 18F labeled tracer LMI1195 for cardiac innervation imaging: a feasibility study using a rodent model and a clinical PET/MR system. P291

S. Nekolla, S. Swirzek, T. Higuchi, S. Reder, S. Schachoff, M. Bschorner, I. Laitinen, S. Robinson, B. Yousefi, M. Schwaiger (München, DE; North Billerica, US)

SUV is an accurate measure of cardiac 11C-PIB retention in amyloidosis. P292

T. Kero, L. Lindsjo, G. Antoni, P. Westermark, K. Carlson, G. Wikstrom, J. Sorensen, M. Lubberink (Uppsala, SE)

Early detection of inflammation in experimental autoimmune myocarditis using 99mTc-fucoidan SPECT. P293

F. Rouzet, T. Cognet, K. Guedj, M. Morvan, F. El Shoukr, L. Louedec, C. Choqueux, A. Nicoletti, D. Le Guludec (Paris, FR)

Diagnosis of cardiac involvement in Andrade type familial amyloid polyneuropathy with 99mTc-DPD. P294

A. Jimenez-Heffernan, F. Munoz-Beamud, E. Sanchez De Mora, C. Borrachero, C. Salgado, C. Ramos-Font, J. Lopez-Martin, M.L. Hidalgo, R. Lopez-Aguilar, E. Soriano (Huelva, ES)

Technical

An investigation of the estimation of photon attenuation and scatter corrections for the myocardial uptake of myocardial I-123 MIBG SPECT in a patient with HCM using a CT-SPECT combined system. P295

A. Okizaki, M. Nakayama, S. Ishitoya, J. Sato, K. Takahashi (Asahikawa, JP)

CZT-Camera vs dual-headed Anger camera with resolution recovery: a comparison of semiquantitative myocardial perfusion and functional parameters. P296

I. Burchert, F. Caobelli, T. Wollenweber, M. Nierada, J. Fulsche, C. Dieckmann, F.M. Bengel (Hannover, DE)

Comparison of measurements of left ventricular wall thickness and cavity size on SPECT MPI to those obtained with transthoracic echocardiography. P297

S. Shuaib, D. Mahlum, S. Port (Milwaukee, US)

Potential usefulness of multidetector computed tomography (MDCT) in the quantification of mitral calcium. P298

D. Gemma, E. Refoyo, E. Cuesta, G. Guzman, T. Lopez, S. Valbuena, M. Fernandez-Velilla, S. Del Prado, M. Moreno, J.L. Lopez-Sendon (Madrid, ES)

Comparison between stress-rest 99mTc-Sestamibi SPECT and rest 2D echocardiography for measurement of left ventricular ejection fraction. P299

M. Harbinson, L. Donnelly (Belfast and Aberdeen, GB)

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Ultra-low dose stress-first Tc-99m tetrofosmin myocardial perfusion SPECT in patients with chest pain using a high-efficiency camera: prognosis, duration, and radiation doses. P300

A. J. Einstein, L. L. Johnson, A. J. Deluca, A. C. Kontak, D. W. Groves, J. Stant, T. Pozniakoff, B. Cheng, L. E. Rabbani, S. Bokhari (New York, US)

Simultaneous myocardial Tc-99m / I-123 imaging using Cadmium Zinc Telluride (CZT) SPECT: A feasibility phantom study. P301

F. Caobelli, C. Schuetze, M. Nierada, J. Fulsche, C. Dieckmann, F.M. Bengel (Hannover, DE)

Effect of temporal resolution of 18F-FDG gated-PET over quantitative systolic and diastolic values. P302

S. Aguade-Bruix, M.N. Pizzi, G. Romero-Farina, M. Terricabras, D. Villasboas, J. Castell-Conesa, J. Candell-Riera (Barcelona, ES)

In vivo monitoring of dual stem cell therapy after myocardial infarction in mice with [18F] fluorodeoxyglucose positron emission tomography. P303

S. Brunner, L. Gross, A. Todica, S. Lehner (Munich, DE)

Comparison among different gated myocardial perfusion software and echocardiography in measuring the left ventricular ejection fraction. P304

A. Di Palo, A. Niccoli Asabella, C. Magarelli, A. Notaristefano, C. Ferrari, G. Rubini (Bari, IT)

Comparison of left ventricular functional parameters obtained from three different commercial automated software cardiac quantification program packages. P305

A. Sellem, S. Melki, W. Elajmi, H. Hammami (Tunis, TN)

Poster Case Session II

Atrial septal defect and partial anomalous pulmonary venous return: role of computed tomographic angiography. P306

M.C. Ziadi, J. Montero, J.L. Ameriso, R.L. Villavicencio (ROSARIO and Rosario, AR)

Giant coronary aneurism diagnosed after an acute coronary syndrome. P307

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A rare case of adult type alcapa syndrome: presentation, diagnosis and management. P308

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Myocardial infarction secondary to anomalous origin of the right coronary artery: non invasive cardiovascular imaging evaluation. P310

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An unusual case of severe hypertension in a young man. P311

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08:30-10:00 // How to Session

Room Roma

How to assess chest pain in the emergency room

Chairperson(s): F. Wackers (Woodbridge, US); D. Wolinsky (Weston, US)

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09:24	Integration of biomarkers, clinical, stress and imaging data. B. Abbott (East Greenwich, US)	315
09:42	A global perspective. J. V. Vitola (Curitiba, BR)	316

08:30-10:00 // Symposium

Room Milan

The vulnerable plaque: visualisation with cutting edge imaging techniques

Chairperson(s): R. Gropler (St. Louis, US); J. M. Knuuti (Turku, FI)

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08:52	Cardiac CT: characterisation of vulnerable plaque and shear stress. F. Pugliese (London, GB)	318
09:15	CMR. P.G. Masci (Lausanne, CH)	319
09:37	Imaging to identify and guide management of the vulnerable patient? A. Tawakol (Wayland, US)	320

08:30-10:00 // Read with the Experts

Room Venecia

Advanced imaging in difficult cases: a global perspective

Chairperson: T. Chua (Singapore, SG)

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08:52	Must see cardiac CT cases (at least once). R. Thompson (Kansas City, US)	322
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10:00-11:00 // Moderated Posters

Moderated Poster Area

Moderated Poster session 5

Chairperson(s): F. Wackers (Woodbridge, US); P. Marzullo (Pisa, IT)

Posters are on display in the poster area from 08:30 until 12:30. Each poster presenter will have 5 minutes to briefly summarize 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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11:00-12:30 // Symposium

Room **Roma**

Advanced imaging in cardiac sarcoidosis

Chairperson(s): T.D. Ruddy (Ottawa, CA); K. Wechalekar (London, GB)

11:00	FDG PET imaging. K. Wechalekar (London, GB)	332
11:22	CMR imaging. U. Sechtem (Stuttgart, DE)	333
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12:07	Imaging in cardiac sarcoidosis: experience of a referral centre. K. Yoshinaga (Chiba, JP)	335

11:00-12:30 // Symposium

Room **Milan**

Imaging to guide electrophysiological procedures

Chairperson(s): A. Flotats (Barcelona, ES); K. A. Williams (Chicago, US)

11:00	CMR and Cardiac CT. M. Gutberlet (Leipzig, DE)	336
11:22	SPECT, PET and dyssynchrony imaging. P. Soman (Pittsburgh, US)	337
11:45	MIBG for atrial fibrillation ablation. A. Gimelli (Pisa, IT)	338
12:07	How does an electrophysiologist use imaging to guide device selection and therapy? D.H. Birnie (Ottawa, CA)	339

11:00-12:30 // Read with the Experts

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SPECT and PET MPI special populations

Chairperson: I. V. Vassiliadis (Kifissia, GR)

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Poster Area

Poster session 3

Presenters will be by their poster during the coffee break from 10:00 to 11:00 to discuss the poster with the audience.

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I. Peovska, J. Davceva Pavlovska, D. Pop Gorceva, M. Zdravkovska, M. Vavlukis, N. Kostova (Skopje, MK; Skopje, FYR)

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Prognostic value of coronary computed tomography angiography in high risk diabetic patients without chest pain syndrome. P347

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Transient ischemic dilatation revisited: what is its value in normal and abnormal pharmacologic stress myocardial perfusion imaging? P348

K. Patel, M. Mahan, K. Ananthasubramaniam (Detroit, US)

Early outcomes in patients with normal coronary angiograms and reversible myocardial perfusion defects. P349

G. Durmus Altun, M. Alpay, A. Altun (Edirne, TR)

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Ultra-Low-Dose Low-Iodine coronary CT angiography performed with standard temporal resolution 64-slice scanner in lean patients. P350

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Development and validation of a patient-tailored dose regime in coronary CT angiography. P351

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Correlation of coronary calcium scoring with exercise stress testing in screening for coronary artery disease. P352

E. Yambao, H.B. Calleja, A.S. Sibulo (Quezon City, PH)

Functional significance of myocardial bridges identified by myocardial perfusion single photon emission computed tomography (SPECT). P353

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Myocardial perfusion scanning using single photon emission computed tomography: reducing radiation exposure and improving patients' safety. P356

J. Lagan, J. Hasleton, M. Meah, J. Mcshane, R. Trent (Chester and Liverpool, GB)

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