Dear Colleagues, dear ESCR Members, dear Friends,

On behalf of ESCR and the Local Organising Committee, I am pleased and honoured to welcome you to the next 2017 Congress of the European Society of Cardiovascular Radiology in Milan.

You will have the opportunity to immerse yourself in one of the most dynamic, most engaging and most scientifically advanced cardiac radiologic programme in the world. In addition to the state-of-the-art scientific and cutting-edge technology, ESCR 2017 will provide you with unique opportunities to share ideas, to network with peers, and to become inspired by leaders in the field.

Imaging in arrhythmias and heart failure are the two major themes for ESCR 2017. Most of the scientific and educational programme will be focused on these two topics, which will be addressed by several discussant, using a multidisciplinary approach with different sub-specialities, such as cardiology, arrhythmology, nuclear cardiology, echocardiography and cardiac surgery. In fact, ESCR has strongly advocated for clinical involvement.

The opening session of the Congress will include discussion on cost-effective analysis in cardiac radiology; other prominent highlights of the meeting will be myocardial ischemia, cardiomyopathy, inflammation and atherosclerosis. Guidelines in cardiac imaging will also be a highlight of the 2017 programme.

As already performed during the last meetings, there will be important joint sessions with ESTI, ASCI, EuroCMR and NASCI, thus underlining the growing role of our society in the European and International Cardiovascular Scientific Network.

The congress will also offer an up-to-date educational programme, presented by experts in cardiovascular imaging, dedicated for those who want to learn more on basic and advanced cardiology and cardiovascular imaging. Due to the growing importance of clinical and vascular themes in our society, dedicated sessions to basic cardiologic issues and to vascular innovations, will be also proposed in the educational programme.

Moreover, we are going to develop more of the third line track with innovative hands-on workshops and appealing case reading sessions.

The congress is back in Italy after being held ten years ago in Rome. It is with great pleasure to invite all of you to Milan, the biggest industrial city of Italy. Milan is a magnetic point for designers, artists, photographers and models. Milan's ancient city centre, with it's high rise buildings and new districts, draws people from all over the world to see this city of glamour. Milan is currently one of the best conference destinations in Europe, offering excellent facilities, exceptional flights connections, and a wealth of quality accommodations. Boasting ample space and an easy-to-navigate layout, the San Raffaele Hospital and Congress Centre is ideal for our needs. Not only it can easily be reached by metro and bus services, but it also has hotels in the immediate vicinity.

I am looking forward to seeing you in Milan.

With my best wishes,

Francesco De Cobelli
Meeting President 2017
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ESCR 2017

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Chairperson
M. Gutberlet, Leipzig/DE
ESCR 2017
FACULTY

W. Acampa, Naples/IT
E. Agricola, Milan/IT
O. Alfieri, Milan/IT
N. Anzalone, Milan/IT
F. Bamberg, Tuebingen/DE
D. Beitzke, Vienna/AT
S. Bekkers, Maastricht/NL
G. Benedetti, Milan/IT
C. Bisceglia, Milan/IT
J. Bogaert, Leuven/BE
J. Bremerich, Basle/CH
C. Bucciarelli-Ducci, Bristol/UK
R. Budde, Rotterdam/NL
P. Camici, Milan/IT
P. Cannao', San Donato Milanese/IT
F. Caobelli, Basel/CH
I. Carbone, Rome/IT
G. Carrafiello, Milan/IT
C. Catalano, Rome/IT
M. Centonze, Trento/IT
Y. Hyeon Choe, Seoul/KR
S.I. Choi, Seongnam-Si/KR
C. Colantoni, Milan/IT
A. Colombo, Milan/IT
F. De Cobelli, Milan/IT
A. Del Maschio, Milan/IT
E. Di Cesare, L’Aquila/IT
P. Donato, Coimbra/PT
A. Esposito, Milan/IT
R. Faletti, Turin/IT
G. Fragasso, Milan/IT
M. Francone, Rome/IT
N. Galea, Rome/IT
M. Grothoff, Leipzig/DE
K. Gruszczynska, Katowice/PL
A.I. Guaricci, Bari/IT
M. Gutberlet, Leipzig/DE
A. Ibrahim, Cairo/EG
A. Kalifatidis, Thessaloniki/GR
N. Kawel, Chur/CH
G. Kirova-Nedyalkova, Sofia/BG
L. La Grutta, Palermo/IT
L. Lehmkuhl, Leipzig/DE
T. Leiner, Utrecht/NL
S. Ley, Stockdorf/DE
G. Ligabue, Modena/IT
C. Loewe, Vienna/AT
J. Lotz, Goettingen/DE
L. Lovato, Bologna/IT
C. Lueke, Leipzig/DE
E. Lutgens, Amsterdam/NL
A.J. Madureira, Porto/PT
R. Marano, Rome/IT
A. Marzatono, Milan/IT
L. Menicanti, Milan/IT
E. Mershina, Moscow/RU
M. Midiri, Palermo/IT
K. Mortensen, Cambridge/UK
E. Mousseaux, Paris/FR
G. Muscogiuri, Rome/IT
L. Natale, Rome/IT
D. Neglia, Pisa/IT
K. Nikolaou, Tuebingen/DE
A. Palmisano, Milan/IT
A. Parkar, Bergen/NO
C. Peebles, Southampton/UK
A. Pelliccia, Rome/IT
E. Pershina, Moscow/RU
S. Petersen, London/UK
D. Piotrowska-Kownacka, Warsaw/PL
F. Pirro, Rome/IT
G. Pontone, Milan/IT
C. Privitera, Catania/IT
F. Pugliese, London/UK
M. Rees, Gwynedd/UK
F. Rigo, Venezia/IT
H. Sakuma, Tsu/JP
R. Salgado, Edegem/BE
F. Sardanelli, Milan/IT
R. Saru-Chelu, Rotterdam/NL
U.J. Schoepf, Charleston/US
F. Secchi, Milan/IT
A. Secinaro, Rome/IT
V. Sinitisyn, Moscow/RU
A. Stillman, Atlanta/US
M. Stuber, Lausanne/CH
T. Treibel, London/UK
E. Van Beek, Edinburgh/UK
P. Van Ooijen, Groningen/NL
B. Velthuis, Utrecht/NL
M. Venturini, Milan/IT
R. Vliegenthart, Groningen/NL
J. Vogel-Clausen, Hannover/DE
J. Westenberg, Leiden/NL
C. White, Baltimore/US
J. Wildberger, Maastricht/NL
F. Wolf, Vienna/AT
R. Wytenbach, Bellinzona/CH
M. Zimarino, Chieti/IT
### PROGRAMME OVERVIEW
**THURSDAY, OCTOBER 12, 2017**

<table>
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<th>Room 4 Paracelso Room</th>
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<td>Evaluation of flow across valves and vessels</td>
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**PROGRAMME OVERVIEW**
**FRIDAY, OCTOBER 13, 2017**

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<th>ROOM 1 SANTA MARIA ROOM</th>
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<th>ROOM 4 PARACELSO ROOM</th>
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<td>Cardiac imaging: What the guidelines suggest</td>
<td>Imaging in new endovascular treatment and devices</td>
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<td>Best rated E-Posters</td>
<td>Hands-on experience of preparing cardiac imaging data for 3D-Printing</td>
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<td><strong>Best Abstract Session</strong></td>
<td><strong>TAVI Workshop 2</strong></td>
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<td>T1-, T2-mapping and ECV</td>
<td>Best rated Abstracts</td>
<td>Evaluation of CT TAVI cases</td>
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<td><strong>Educational Session 5</strong></td>
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<td>ESCR meets EACVI: Is imaging mandatory in arrhythmias?</td>
<td>Multimodality imaging in inflammation</td>
<td>Arhythmia</td>
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<td><strong>New Horizon Session</strong></td>
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<td>Evaluation of perfusion MRI cases</td>
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<td><strong>T1/T2 Mapping Workshop 1</strong></td>
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<td>Imaging the dilated ventricle in heart failure: Too late for recovery?</td>
<td>Role of imaging in ACS</td>
<td>How to evaluate T1 and T2 mapping</td>
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### Programme Overview

**Saturday, October 14, 2017**

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<th>Room 1 Santa Maria Room</th>
<th>Room 2 Pinta + Nina Room</th>
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<th>Room 4 Paracelsus Room</th>
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<td>State of the Art 7</td>
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<td>Diagnostic imaging of arterial diseases: What’s new</td>
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<td>10:00</td>
<td>State of the Art 8</td>
<td>Educational Session 8</td>
<td>Anatomy and Function Workshop 2</td>
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<td>10:15</td>
<td>The heart of trained athletes: Bigger and healthier or underestimated target of disease?</td>
<td>Technical improvements in imaging of arrhythmias</td>
<td>Workshop on measurement and normal cardiac anatomical/functional values in adults and children</td>
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<td>State of the Art 9</td>
<td>Proffered Paper Session 5</td>
<td>T1/T2 Mapping Workshop 2</td>
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<td>11:45</td>
<td>Resuscitating the dysfunctional left ventricle</td>
<td>Imaging of aorta and peripheral vessels</td>
<td>How to evaluate T1 and T2 mapping</td>
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<td>14:30</td>
<td>Pro contra session – CT and MRI in acute chest pain</td>
<td>What you need to know about cardiomyopathy</td>
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<td>Special Focus Session – Closing Session</td>
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<td>16:00</td>
<td>The battle of giants: Cardiac CT versus cardiac MRI</td>
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PROGRAMME
THURSDAY, OCTOBER 12, 2017

08:30-09:45  **State of the Art 1**  
*Evaluation of flow across valves and vessels*
Chair: M. Francone, Rome/IT  
Chair: V. Sinitsyn, Moscow/RU

08:30  **101**  
4D flow: How does it work?  
J. Westenberg, Leiden/NL

08:50  **102**  
Value of 4D flow in the aorta  
E. Mousseaux, Paris/FR

09:10  **103**  
Assessment of 4D flow across valves  
R. Saru-Chelu, Rotterdam/NL

09:30  Panel discussion: Ready for clinical implementation?

08:30-09:45 **Proffered Paper Session 1**  
*Non-ischemic cardiomyopathy*
Chair: L. Natale, Rome/IT  
Chair: M. Venturini, Milan/IT

08:30  **104**  
T1-mapping-derived myocardial ECV in healthy subjects in relation to the imaging protocol: A systematic review and meta-analysis  
S. Schiaffino, Genoa/IT

08:40  **105**  
Extracellular volume measured by cardiac magnetic resonance imaging in the early stage of cardiac transplant: Comparison to endomyocardial biopsy  
A. Wielandner, Vienna/AT

08:50  **106**  
Delayed Myocardial Enhancement using Gadobutrol: A Time and Dose Optimization Study  
J.L. Wichmann, Frankfurt/DE

09:00  **107**  
Quantification and prognostic value of late gadolinium enhancement in non-ischemic dilated cardiomyopathy  
P.M. Cannao, San Donato Milanese/IT

09:10  **108**  
Cardiac magnetic resonance (CMR) feature tracking derived myocardial strain, delayed enhancement and edema in myocarditis  
F. Secchi, Milan/IT

09:20  **109**  
Quantification of left ventricular trabeculation in different cardiomyopathies with cardiac magnetic resonance  
M. Mademili, Athens/GR

09:30  **110**  
Assessment of myocardial deformation of compacted layer in Non–Compaction Cardiomyopathy: Tissue Tracking findings  
P. Palumbo, L’Aquila/IT

09:40  Discussion

09:45-10:00  Coffee Break
PROGRAMME
THURSDAY, OCTOBER 12, 2017

10:00–11:15 Opening Session
Room 1

Multimodality Imaging of Atherosclerosis
Level: 2–3
Chair: F. De Cobelli, Milan/IT
Chair: M. Gutberlet, Leipzig/DE

10:00 111 The pathophysiology of atherosclerosis and vulnerability: Targets for imaging
E. Lutgens, Amsterdam/NL

10:20 112 Multimodality imaging of plaque activity and composition (CT-MR-PET)
E. van Beek, Edinburgh/UK

10:40 113 Invasive techniques for plaque assessment
A. Colombo, Milan/IT

11:00 Panel Discussion: Impact of plaque features on prognosis and treatment?

11:15–11:30 Break

11:30–12:45 ESCR meets ESTI
Room 1

Pulmonary hypertension
Level: 2
Chair: J. Bremerich, Basel/CH
Chair: A. Del Maschio, Milan/IT

11:30 114 Etiology and pathophysiology of pulmonary hypertension
J. Vogel-Claussen, Hannover/DE

11:45 115 Assessment of PHT with CT
A.P. Parkar, Bergen/NO

12:00 116 Assessment of PHT with MR
S. Ley, Munich/DE

12:15 117 Functional assessment of the RV and PA
M. Grothoff, Leipzig/DE

12:30 Panel Discussion

11:30–12:45 Educational Session 1
Room 2

Essential cardiology for radiologists
Level: 1
Chair: M. Midiri, Palermo/IT
Chair: V. Sinitsyn, Moscow/RU

11:30 118 How to read an ECG: A practical checklist for radiologists
G. Pontone, Milan/IT

11:55 119 Medication in cardiac radiology: The management of heart rate and the use of
cardiac stressors
M. Rees, Bangor/UK

12:20 120 What radiologists should know about echocardiography
E. Agricola, Milan/IT
PROGRAMME
THURSDAY, OCTOBER 12, 2017

11:30-12:45  TAVI Workshop 1  
Room 3
Evaluation of CT TAVI cases
Level: 2
Coordinator: R. Salgado, Antwerp/BE
Coordinator: F. Wolf, Vienna/AT

12:45-13:00  Break

13:00-14:00  Industry sponsored Symposium  
Room 1
State of the art cardiac CT imaging with lowest doses
Chair: V. Sinitsyn, Moscow/RU
Initial clinical experience of CT-FFR in clinical practice
K. Kofod, Copenhagen/DK
Cardiac CT on the latest 320-row CT with true MBIR
R. Bull, Bournemouth/UK

14:00-14:15  Break

14:15-15:30  State of the Art 2  
Room 1
ESCR meets ASCI – The test of choice for evaluation of myocardial ischemia is ...
Level: 2-3
Chair: Y. Choe, Seoul/KR
Chair: M. Gutberlet, Leipzig/DE
14:15  121  Stress Echo
F. Rigo, Mestre-Venice/IT
14:30  122  Stress CT
S.I. Choi, Seoul/KR
14:45  123  Stress SPECT
W. Acampa, Naples/IT
15:00  124  Stress MRI
H. Sakuma, Tsu/JP
15:15  Panel Discussion

14:15-15:30  Proffered Paper Session 2  
Room 2
Imaging pre- and post-intervention
Chair: C. Loewe, Vienna/AT
Chair: F. Wolf, Vienna/AT
14:15  125  Contrast Dose Optimization in CT Angiography prior to Trans-catheter Aortic Valve Implantation (TAVI) – A prospective study in 80 patients
K.S. Winter, Munich/DE
14:25  126  Low contrast CT angiography prior to TAVI procedure: Feasibility and diagnostic accuracy for coronary tree
A.D. Annoni, Milan/IT
PROGRAMME
THURSDAY, OCTOBER 12, 2017

14:35 127 Two New Methods for an Objective Quantification of Iliac Artery Tortuosity derived from CT-Angiography Datasets in Patients prior to Transcatheter Aortic Valve Implantation (TAVI)  
H. Ruhnke, Augsburg/DE

14:45 128 Assessment of whirling flow in aortic root after valve-sparing replacement of ascending aorta with recreation of Valsalva’s sinuses: A 4D Flow MR study  
N. Galea, Rome/IT

14:55 129 Computed tomography image quality of aortic coarctation stents  
S. Boccalini, Rotterdam/NL

15:05 130 Risk of recurrence after pulmonary vein isolation in atrial fibrillation: Can radiology help?  
M. Pradella, Basel/CH

15:15 131 Concentrated pineapple juice for visualization of the esophagus during magnetic resonance angiography before the radiofrequency catheter ablation procedure for atrial fibrillation  
M. Gatti, Turin/IT

15:25 Discussion

14:15-15:30 Case Reading Session 1  
Coronary artery disease  
Level: 1  
Coordinator: A. Kallifatidis, Thessaloniki/GR  
Coordinator: A. Madureira, Porto/PT  
C. Colantoni, Milan/IT  
P. Donato, Coimbra/PT  
E. Mershina, Moscow/RU  
F. Pirro, Rome/IT  
A. Samir Ibrahim, Cairo/EG

15:30-15:45 Coffee Break

15:45-17:00 Educational Session 2  
Ventricular arrhythmias  
Level: 1-2  
Chair: M. Centonze, Trento/IT  
Chair: T. Leiner, Utrecht/NL

15:45 132 Ventricular arrhythmias: The arrhythmologist point-of-view  
C. Bisceglia, Milan/IT

16:05 133 Imaging of ventricular arrhythmias from left side  
M. Guterlet, Leipzig/DE

16:25 134 Imaging of ventricular arrhythmias from right side  
J. Lotz, Goettingen/DE

16:50 Panel Discussion
# PROGRAMME
## THURSDAY, OCTOBER 12, 2017

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
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<tbody>
<tr>
<td>15:45-17:00</td>
<td><strong>Perfusion MRI Workshop 1</strong></td>
<td>Room 3</td>
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<td>Evaluation of perfusion MRI cases</td>
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<td>Coordinator: E. Mershina, Moscow/RU</td>
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<td>Coordinator: E. Pershina, Moscow/RU</td>
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<td>17:00-17:15</td>
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<td>17:15-18:30</td>
<td><strong>Cardiovascular Quiz</strong></td>
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<td>Coordinator: C. Loewe, Vienna/AT</td>
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<td>Coordinator: C. Peebles, Southampton/UK</td>
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<td>17:15-18:30</td>
<td><strong>Proffered Paper Session 3</strong></td>
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<tr>
<td></td>
<td>Myocardial ischemia and myocardial infarction</td>
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<td>Chair: A. Kalifatidis, Thessaloniki/GR</td>
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<td>Chair: L. Lovato, Bologna/IT</td>
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<tr>
<td>17:15 135</td>
<td>Epicardial Adipose Tissue Volume in Patients with Coronary Artery Disease or Non-ischemic dilated Cardiomyopathy: Evaluation with Cardiac Magnetic Resonance</td>
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<td>M. Petrini, Rottofreno/IT</td>
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<td>17:25 136</td>
<td>Hybrid cardiac PET MR for the evaluation of myocardial scarring in ischemic cardiomyopathy: Intraindividual comparison of left ventricular scar burden evaluated by simultaneous PET</td>
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<td>D. Beitzke, Vienna/AT</td>
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<td>17:35 137</td>
<td>Quantitative Late Gadolinium Enhancement in Unrecognized Myocardial Infarction</td>
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<td>T. Zitzelsberger, Tuebingen/DE</td>
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<td>17:45 138</td>
<td>Correlation between splenic switch-off and clinical parameters in adenosine stress CMR</td>
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<td>R. Faletti, Turin/IT</td>
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<td>17:55 139</td>
<td>Quantitative maps to evaluate Myocardial and Splenic Blood Flow in Adenosine Stress Perfusion: A preliminary study</td>
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<td>G. Benedetti, Milan/IT</td>
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<td>18:05 140</td>
<td>Stress-rest CMR for the assessment of myocardial perfusion reserve index modification after coronary sinus stent implantation</td>
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<td>A. Palmisano, Milan/IT</td>
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<td>18:15 141</td>
<td>FFRCT for the non-invasive assessment of ischemia in patients with “malignant” anomaly of the right coronary artery</td>
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<td>K. De Smet, Brussels/BE</td>
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<td>18:25</td>
<td>Discussion</td>
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<td>17:15-18:30</td>
<td><strong>Anatomy and Function Workshop 1</strong></td>
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<td>Workshop on measurement and normal cardiac anatomical/functional values in adults and children</td>
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<td>Coordinator: K. Mortensen, Cambridge/UK</td>
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<td>Coordinator: A. Secinaro, Rome/IT</td>
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# Programme

**Friday, October 13, 2017**

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<th>Time</th>
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<tr>
<td>08:00-08:30</td>
<td>General Assembly 2017</td>
<td>Room 1</td>
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<td>08:30-09:45</td>
<td><strong>State of the Art 3</strong></td>
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<td>Cardiac imaging: What the guidelines suggest</td>
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<td>Chair: C. Catalano, Rome/IT</td>
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<td>Chair: M. Rees, Bangor/UK</td>
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<td>08:30</td>
<td>201 A patient with suspected CAD</td>
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<td><em>R. Vliegenthart, Groningen/NL</em></td>
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<td>08:45</td>
<td>202 A patient with left ventricle hypertrophy</td>
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<td><em>M. Francone, Rome/IT</em></td>
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<td>09:00</td>
<td>203 A patient with left ventricle dilatation</td>
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<td><em>J. Bogaert, Leuven/BE</em></td>
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<td>09:15</td>
<td>204 Risk stratification and prevention</td>
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<td><em>R. Marano, Rome/IT</em></td>
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<td>Panel Discussion</td>
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<td>08:30-09:45</td>
<td><strong>Educational Session 3</strong></td>
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<td>Imaging in new endovascular treatment and devices</td>
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<td>Chair: L. Menicanti, Milan/IT</td>
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<td>Chair: R. Salgado, Antwerp/BE</td>
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<td>08:30</td>
<td>205 Atrial interventions</td>
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<td>*M. Centonze, Trento/IT</td>
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<td>08:45</td>
<td>206 AV valves and coronary veins</td>
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<td><em>L. Natale, Rome/IT</em></td>
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<td>09:00</td>
<td>207 Ventricular interventions</td>
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<td>*A. Esposito, Milan/IT</td>
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<td>09:15</td>
<td>208 Aortic interventions</td>
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<td><em>F. Wolf, Vienna/AT</em></td>
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<td>08:30-09:45</td>
<td><strong>Case Reading Session 2</strong></td>
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<td>Etiology of heart failure</td>
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<td>Coordinator: K. Gruszczynska, Katowice/PL</td>
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<td>Coordinator: B. Velthuis, Utrecht/NL</td>
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<td>P. Cannao, Milan/IT</td>
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<td>R. Saru-Chelu, Rotterdam/NL</td>
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PROGRAMME
FRIDAY, OCTOBER 13, 2017

10:00-11:15  State of the Art 4  
ESCR meets NASCI – “Great Debates” in cardiac-CT: Anatomical strategy versus functional strategy  
Level: 3  
Chair: J. Schoepf, Charleston/US  
Chair: R. Vliegenthart, Groningen/NL

10:00  209  Patients with suspected CAD should be evaluated by CT before Cath: Pros  
A. Stillman, Atlanta/US

10:15  210  Patients with suspected CAD should be evaluated by CT before Cath: Cons  
M. Zimarino, Chieti/IT

10:30  211  Anatomical CT findings have more prognostic value than functional findings by stress test: Pros  
J. Schoepf, Charleston/US

10:45  212  Anatomical CT findings have more prognostic value than functional findings by stress test: Cons  
C. White, Baltimore/US

11:00  Panel Discussion

10:00-11:15  EPOS Highlighted Session  
Best rated E-Posters  
Chair: N. Galea, Rome/IT  
Chair: G. Ligabue, Modena/IT

10:00  401  Comparison by magnetic resonance imaging of laser and radiofrequency induced lesions in the isolation of the pulmonary veins  
R.J. Perea Palazon, Barcelona/ES

10:07  402  Computer tomography in the diagnostic of coronary sinus anomalies  
E.V. Nikolaeva, Astrakhan/RU

10:14  403  Vieussens' Arterial Ring: A Life-saving Necklace  
N. Dogan, Bursa/TR

10:21  404  Transient left ventricular anterior wall dysfunction is associated with increased stroke rate after Takotsubo syndrome  
N. Abanador-Kamper, Wuppertal/DE

10:28  405  Subtraction computed tomography pulmonary angiography in diagnosis of chronic thromboembolic pulmonary hypertension  
A. Demchenkova, Moscow/RU

10:35  406  Diagnostic accuracy of in-stent restenosis with model-based iterative reconstruction at coronary CT angiography  
F. Tatsugami, Hiroshima/JP

10:42  407  Early complications arising from catheter ablation of pulmonary veins in atrial fibrillation: A pictorial review  
I. Mastorakou, Athens/GR
PROGRAMME
FRIDAY, OCTOBER 13, 2017

10:49 408 Pulmonary artery and left atrial appendage anatomical relationship evaluation using ECG-gated computed tomography – An important aspect of LAA occlusion
D.K. Galaska, Gdansk/PL

10:56 409 Evaluation of Myocardial Area at Risk Using Balanced SSFP with Inversion Recovery
K. Matsumoto, Shizuoka/JP

11:03 410 T1 mapping versus late Gd-enhancement MRI in detection of microvascular obstruction in patients with reperfused acute myocardial infarction
T.H. Kim, Seoul/KR

11:10 Discussion

10:00–11:15 3D-Printing Workshop 1
Hands-on experience of preparing cardiac imaging data for 3D-Printing
Level: 2–3
Coordinator: R. Faletti, Turin/IT
Coordinator: P. van Ooijen, Groningen/NL

11:15–11:30 Break

11:30–12:45 Educational Session 4
T1-, T2-mapping and ECV
Level: 2
Chair: M. Grothoff, Leipzig/DE
Chair: E. Mousseaux, Paris/FR

11:30 213 Technique of T1-mapping, T2-mapping and ECV calculations
J. Bremerich, Basel/CH

11:50 214 Diagnostic value of T1- and T2-mapping
M. Francone, Rome/IT

12:10 215 Prognostic value of T1- and T2-mapping
T. Treibel, London/UK

12:30 Panel Discussion

11:30–12:45 Best Abstract Session
Best rated Abstracts
Chair: F. De Cobelli, Milan/IT
Chair: R. Vliegenthart, Groningen/NL

11:30 216 3D printed aortic annulus model: Preliminary experience on pre-procedural planning for aortic valve sizing
A. Cosentino, Turin/IT

11:40 217 Assessment of Left Ventricular Volumes and Function: Can We accurately do it after Contrast Administration?
T. D'Angelo, Messina/IT

11:50 218 Mid-term Cardiac Remodelling in Competitive Athletes
P. Krumm, Tuebingen/DE
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| 12:00 | 219 Comparison of T1 reactivity both in MOLLI and ShMOLLI sequences with haemodynamic response and splenic perfusion during Adenosine Stress Perfusion CMR  
E. Gezmis, Izmir/TR |
| 12:10 | 220 Early myocardial perfusion measured by CMR in acute myocardial infarction treated by primary PCI  
A. Bethke, Oslo/NO |
| 12:20 | 221 FFRCT and stress perfusion CMR are equally reliable alternatives to invasive FFR measurement in predicting functional significance of intermediate-grade coronary artery stenosis  
J. Bielen, Holsbeek/BE |
| 12:30 | 222 Model Base Iterative Recontraction for evaluation of coronary artery stenosis and CT radiation dose  
A. Vizzuso, Ferrara/IT |
| 12:40 | Discussion |

#### TAVI Workshop 2
- **Room 3**
- **11:30-12:45**
  - **Evaluation of CT TAVI cases**
  - **Level:** 2
  - **Coordinator:** R. Salgado, Antwerp/BE  
- **Coordinator:** F. Wolf, Vienna/AT |

#### Industry sponsored Symposium
- **Room 1**
- **13:00-14:00**
  - **Is it time for a revolution in the Cardiac CT practice?**  
  - **Insights from Centro Cardiologico Monzino, Italy**  
  - **Chair:** O. Adda, Buc/FR |
  - **Cardiac CT on arrhythmic and high heart rate patients: Still a challenge?**  
  - **D. Andreini, Milan/IT** |
  - **Benefits of wide-volume CT in pre-TAVI and aorta evaluation**  
  - **A. Annoni, Milan/IT** |
  - **Incremental diagnostic value of CT myocardial perfusion with whole-heart coverage CT scanner**  
  - **G. Pontone, Milan/IT** |

#### State of the Art 5
- **Room 1**
- **14:15-15:30**
  - **ESCR meets EACVI: Is imaging mandatory in arrhythmias?**  
  - **Level:** 2-3
  - **Chair:** J. Bremerich, Basel/CH  
  - **Chair:** D. Neglia, Pisa/IT |
  - **14:15 223**  
    - **Is imaging mandatory in patients with atrial fibrillation**  
    - **S. Petersen, London/UK** |
  - **14:35 224**  
    - **Is imaging mandatory in patients with ventricular arrhythmias**  
    - **C. Bucciarelli-Ducci, Bristol/UK**
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14:55 225 Imaging integration for guiding ablation therapy of ventricular arrhythmias
      A. Esposito, Milan/IT
15:15 Panel Discussion

14:15-15:30 Educational Session 5
      Room 2
      Multimodality imaging in inflammation
      Level: 1-2
      Chair: W. Acampa, Naples/IT
      Chair: E. van Beek, Edinburgh/UK

14:15 226 Myocarditis
      M. Gutberlet, Leipzig/DE
14:30 227 Pericarditis
      M. Francone, Rome/IT
14:45 228 Endocarditis
      R. Budde, Rotterdam/NL
15:00 229 Vasculitis and aortitis
      F. De Cobelli, Milan/IT
15:15 Panel Discussion

14:15-15:30 Case Reading Session 3
      Room 4
      Arrhythmia
      Level: 1-3
      Coordinator: T. Leiner, Utrecht/NL
      Coordinator: G. Muscogiuri, Rome/IT
      K. Gruszczynska, Katowice/PL
      A. Kallifatidis, Thessaloniki/GR
      A. Madureira, Porto/PT
      A. Palmisano, Milan/IT
      F. Secchi, Milan/IT

15:30-15:45 Coffee Break

15:45-17:00 New Horizon Session
      Room 1
      15:45 Dose optimization in cardiac CT: The role of iodine concentration
              F. Pugliese, London/UK
      16:15 Cardiovascular Dual–Energy CT
              J.L. Wichmann, Frankfurt/DE

15:45-17:00 Proffered Paper Session 4
      Room 2
      Coronary artery disease
      Chair: A. Guaricci, Bari/IT
      Chair: L. La Grutta, Palermo/IT
      15:45 230 Incidental findings on cardiac CT in large population–based screening trial for cardiovascular disease
              M. Vonder, Groningen/NL
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| 15:55 | 231  | Effects of Hyperthyroidism on coronary artery disease: A CTA study  
C. Beyer, Innsbruck/AT |
| 16:05 | 232  | Predictive Value of Coronary Computed Tomography Angiography in Asymptomatic Individuals with Diabetes Mellitus: Systematic Review and Meta-Analysis  
E. Beller, Munich/DE |
| 16:15 | 233  | Coronary Risk Assessment at X-ray Dose Equivalent Ungated Chest CT: Results of a Multireader Study  
M. Messerli, Zurich/CH |
| 16:25 | 234  | Evaluation of an adaptive detector collimation for prospectively ECG–triggered coronary CT angiography with third-generation dual–source CT  
M. Messerli, Zurich/CH |
| 16:35 | 235  | Optimization of energy levels in coronary DECT: Impact of traditional and noise-optimized virtual monoenergetic imaging reconstruction on image quality and diagnostic accuracy  
C. Arendt, Frankfurt am Main/DE |
| 16:45 | 236  | Diagnostic accuracy and prognostic value of triple run out using second generation dual source CT vs standard evaluation in acute chest pain  
M. Fusaro, Treviso/IT |
| 16:55 |      | Discussion |
| 15:45-17:00 | 237 | **Perfusion MRI Workshop 2**  
**Evaluation of perfusion MRI cases**  
Level: 2  
Coordinator: E. Mershina, Moscow/RU  
Coordinator: E. Pershina, Moscow/RU |
| 17:00-17:15 |      | Break |
| 17:15-18:30 | 238 | **State of the Art 6**  
**Imaging the dilated ventricle in heart failure: Too late for recovery?**  
**Level: 2-3**  
Chair: G. Kirova, Sofia/BG  
Chair: F. Sardanelli, Milan/IT |
| 17:15 | 237  | The dilated right ventricle: Still an isolated chamber?  
E. Mousseaux, Paris/FR |
| 17:30 | 238  | Imaging acute heart failure and dilated cardiomyopathy  
B. Velthuis, Utrecht/NL |
| 17:45 | 239  | Chronic heart failure: Cardiac imaging beyond functional assessment  
C. Peebles, Southampton/UK |
| 18:00 | 240  | Imaging for risk stratification and patient selection before cardiac resynchronization therapy  
G. Pontone, Milan/IT |
| 18:15 |      | Panel Discussion |
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<td>17:15-18:30</td>
<td><strong>Educational Session 6</strong>&lt;br&gt;Role of imaging in ACS&lt;br&gt;<em>Level: 2</em>&lt;br&gt;<em>Chair: P. Camici, Milan/IT</em>&lt;br&gt;<em>Chair: M. Gutberlet, Leipzig/DE</em></td>
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<td>17:15</td>
<td>241 The role of cardiac imaging to establish (differential) diagnosis in ACS&lt;br&gt;<em>J. Bremerich, Basel/CH</em></td>
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<td>17:30</td>
<td>242 MVO in MRI – EGE, LGE or first pass perfusion – what is the best?&lt;br&gt;<em>D. Piotrowska-Kownacka, Warsaw/PL</em></td>
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<td>17:45</td>
<td>243 Cardiac remodelling after MI and MVO&lt;br&gt;<em>J. Bogaert, Leuven/BE</em></td>
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<td>18:00</td>
<td>244 LGE and MSI for outcome estimation in ACS&lt;br&gt;<em>M. Gutberlet, Leipzig/DE</em></td>
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<td>18:15</td>
<td>Panel Discussion</td>
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<td>17:15-18:30</td>
<td><strong>T1/T2 Mapping Workshop 1</strong>&lt;br&gt;How to evaluate T1 and T2 mapping&lt;br&gt;<em>Level: 2</em>&lt;br&gt;<em>Coordinator: M. Francone, Rome/IT</em>&lt;br&gt;<em>Coordinator: N. Galea, Rome/IT</em>&lt;br&gt;<em>Coordinator: C. Lücke, Leipzig/DE</em></td>
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08:30-09:45  State of the Art 7
Room 1
ESCR meets Switzerland
Level: 1-3
Chair: C. Catalano, Rome/IT
Chair: M. Gutberlet, Leipzig/DE
08:30  301 Cardiac anatomy: What every cardiac imager has to know
R. Wyttenbach, Bellinzona/CH
08:45  302 The real one-stop-shop for imaging CAD: Rubidium PET-CT
F. Caobelli, Basel/CH
09:00  303 Quantitative MRI: What is normal, what is abnormal?
N. Kawel-Boehm, Chur/CH
09:15  304 Multidimensional free-breathing and self-gated Cardiac MRI
M. Stuber, Lausanne/CH
09:30  Panel Discussion

08:30-09:45  Educational Session 7
Room 2
Diagnostic imaging of arterial diseases: What's new
Level: 2
Chair: D. Beitzke, Vienna/AT
Chair: G. Carrafiello, Milan/IT
08:30  305 Aorta
C. Loewe, Vienna/AT
08:45  306 Supraortic vessels
N. Anzalone, Milan/IT
09:00  307 Renal arteries
C. Catalano, Rome/IT
09:15  308 Lower-limb
T. Leiner, Utrecht/NL
09:30  Panel Discussion

08:30-09:45  3D-Printing Workshop 2
Room 3
Hands-on experience of preparing cardiac imaging data for 3D-Printing
Level: 2-3
Coordinator: R. Faletti, Turin/IT
Coordinator: P. van Ooijen, Groningen/NL
09:45-10:00  Coffee Break

10:00-11:15  State of the Art 8
Room 1
The heart of trained athletes: Bigger and healthier or underestimated target of disease?
Level: 2
Chair: C. Privitera, Catania/IT
Chair: R. Vliegenthart, Groningen/NL
10:00  309 To screen or not to screen, and who?
A. Pelliccia, Rome/IT
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10:20 310 Imaging for prevention of sudden cardiac death in young athletes
L. Natale, Rome/IT

10:40 311 Imaging for prevention of sudden cardiac death in the elderly
B. Velthuis, Utrecht/NL

11:00 Panel Discussion

10:00-11:15 Educational Session 8
Room 2
Technical improvements in imaging of arrhythmias
Level: 2-3
Chair: E. Di Cesare, L'Aquila/IT
Chair: E. Mershina, Moscow/RU

10:00 312 How to scan arrhythmic patients with MR
T. Leiner, Utrecht/NL

10:15 313 How to scan arrhythmic patients with CT
F. Pugliese, London/UK

10:30 314 A problem for SPECT and PET imaging?
F. Caobelli, Basel/CH

10:45 315 Device: Update on MR conditional devices
N. Galea, Rome/IT

11:00 Panel Discussion

10:00-11:15 Anatomy and Function Workshop 2
Room 3
Workshop on measurement and normal cardiac anatomical/functional values in adults and children
Level: 1-2
Coordinator: K. Mortensen, Cambridge/UK
Coordinator: A. Secinaro, Rome/IT

11:15-11:30 Break

11:30-12:45 State of the Art
Room 1
Resuscitating the dysfunctional left ventricle
Level: 2-3
Chair: O. Alfieri, Milan/IT
Chair: A. Guaricci, Bari/IT

11:30 316 Predicting outcome in chronic ischemic heart disease
T. Leiner, Utrecht/NL

11:45 317 Imaging fibrosis before implantation of ICD: What is the evidence
L. Natale, Rome/IT

12:00 318 Cardiac imaging before valvular surgery: Seek for non invasiveness
L. Lehmkuhl, Bad Neustadt/DE

12:15 319 Image-guided therapy of heart failure in non-ischemic cardiomyopathies
C. Bucciarelli-Ducci, Bristol/UK

12:30 Panel Discussion
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11:30-12:45  Proffered Paper Session 5  
Room 2

Imaging of aorta and peripheral vessels
Chair: C. Catalano, Rome/IT
Chair: T. Leiner, Utrecht/NL

11:30  320 Intra- and inter-operator variability of semi-automatic segmentation of breast arterial calcifications (BAC) on digital mammograms
R.M. Trimboli, Milan/IT

11:40  321 CT Texture of Carotid Arteries identifies Vulnerable Plaque in Stroke and Transient Ischaemic Attack: A preliminary outcome study
F. Zaccagna, Cambridge/UK

11:50  322 Dual source double-low dose CTA using a test bolus of diluted iso-osmolar iodinated contrast material for craniocervical arteries: A preliminary study
H. Wu, Changzhou/CN

12:00  323 Low dose CT angiography for thoracic aorta: Optimal combination between 80kV and last generation iterative reconstruction algorithm levels
A.D. Annoni, Milan/IT

12:10  324 Automatic quantification and visualization of thoracic aorta diameters on successive CTA scans
S. Boccalini, Rotterdam/NL

12:20  325 Ascending aorta in 2D phase contrast MR: Automatic identification and lumen segmentation
M. Codari, San Donato Milan/IT

12:30  326 Impact of age, gender and cardiovascular disease on the ascending aortic strain measured on CMR
M. Scarabello, Milan/IT

12:40  Discussion

11:30-12:45  T1/T2 Mapping Workshop 2  
Room 3

How to evaluate T1 and T2 mapping
Level: 2
Coordinator: M. Francone, Rome/IT
Coordinator: N. Galea, Rome/IT
Coordinator: C. Lücke, Leipzig/DE

12:45-14:15  Break

14:15-15:30  State of the Art 10  
Room 1

Pro con contra session – CT and MRI in acute chest pain
Level: 2
Chair: R. Marano, Rome/IT
Chair: K. Nikolaou, Tuebingen/DE

14:15  327 No Imaging needed in acute chest pain
G. Fragasso, Milan/IT

14:35  328 CT in acute chest pain
F. Bamberg, Tuebingen/DE
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| 14:55 | MRI in acute chest pain  
* S. Bekkers, Maastricht/NL; J. Wildberger, Maastricht/NL |
| 15:15 | Panel Discussion |

**14:15-15:30 Educational Session 9**  
**Room 2**  
**What you need to know about cardiomyopathy**  
Level: 1-2  
Chair: A. Madureira, Porto/PT  
Chair: A. Margonato, Milan/IT

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| 14:15 | Thick Myocardium  
* L. Natale, Rome/IT |
| 14:30 | Reduced ventricular function  
* I. Carbone, Rome/IT |
| 14:45 | Restriction / Constriction  
* C. Peebles, Southampton/UK |
| 15:00 | Thin myocardium  
* R. Salgado, Antwerp/BE |
| 15:15 | Panel Discussion |

**15:30-15:45 Coffee Break**

**15:45-17:00 Special Focus Session – Closing Session**  
**Room 1**  
**The battle of giants: Cardiac CT versus cardiac MRI**  
Level: 2-3  
Chair: J. Bremerich, Basel/CH  
Chair: F. De Cobelli, Milan/IT

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| 15:45 | Any chance for MRI to image the coronary arteries?  
* H. Sakuma, Tsu/JP |
| 16:00 | Any chance for CT to diagnose “LGE” pattern?  
* A. Esposito, Milan/IT |
| 16:15 | CT or MRI in valve disease?  
* G. Pontone, Milan/IT |
| 16:30 | Award Ceremony |
EPOS™

SCIENTIFIC POSTERS

401 Comparison by magnetic resonance imaging of laser and radiofrequency induced lesions in the isolation of the pulmonary veins
R.I. Perea Palazon, R.M. Figueras, E.M. Benito, F. Alarcon, F. Chipa, J. Cozzari, A. Berruezo, L. Mont; Barcelona/ES

402 Computer tomography in the diagnostic of coronary sinus anomalies
E.V. Nikolaeva; Astrakhan/RU

403 Vieussens’ Arterial Ring: A Life-saving Necklace
N. Dogan, A. Dursun, H. Ozkan; Bursa/TR

404 Transient left ventricular anterior wall dysfunction is associated with increased stroke rate after Takotsubo syndrome
N. Abanador-Kamper, J. Wolfertz, L. Kamper, M. Vorpahl, P. Haage, M. Seyfarth; Wuppertal/DE

405 Subtraction computed tomography pulmonary angiography in diagnosis of chronic thromboembolic pulmonary hypertension
A. Demchenkova, T.N. Veselova, T. Martynyuk, N. Danilov, K. Mershin, S.K. Ternovoy, I.E. Chazova; Moscow/RU

406 Diagnostic accuracy of in-stent restenosis with model-based iterative reconstruction at coronary CT angiography
F. Tatsugami, T. Higaki, H. Sakane, Y. Nakamura, M. Iida, Y. Baba, M. Kiguchi, K. Awai; Hiroshima/JP

407 Early complications arising from catheter ablation of pulmonary veins in atrial fibrillation: A pictorial review
S. Katsilouli1, S. Kampanarou1, O. Karapanagiotou1, N. Kollaros2, T. Syrigou1, I. Mastorakou1; 1Athens/GR, 2Kallithea/GR

408 Pulmonary artery and left atrial appendage anatomical relationship evaluation using ECG-gated computed tomography – An important aspect of LAA occlusion
D.K. Galaska, R. Galaska, M. Studniarek, E. Szurowska; Gdansk/PL

409 Evaluation of Myocardial Area at Risk Using Balanced SSFP with Inversion Recovery
K. Matsumoto; Shizuoka/JP

410 T1 mapping versus late Gd-enhancement MRI in detection of microvascular obstruction in patients with reperfused acute myocardial infarction
T.H. Kim, C.H. Park; Seoul/KR

411 Low dose coronary arteries CTA in obese patients
D. Golubickas, E. Naujokaite, A. Jankauskas, R. Slapikas, A. Basevicius; Kaunas/LT

412 Technical performance of second-generation dual source CT Triple Rule Out (TRO) in patient with acute chest pain
M. Fusaro, G. Battistella, G. Tessarin, G. Balestriero, C. Bortolanza, L.E. La Torre, G. Morana; Treviso/IT

413 Variant scanning of the heart venous part by computer tomography
M. Shlyappo, S. Alexandrova, L.A. Yurpolskaya, V. Makarenko; Moscow/RU
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<td>Spontaneous coronary artery dissection: Diagnostic, work-up and treatment</td>
<td>L. Gabrieli, V. Alberotanza, A. Drago, G. Berardi; Bari/IT</td>
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<td>415</td>
<td>Endovascular embolization of A-V lung fistula in HHT disease</td>
<td>V. Alberotanza, M.P. Ganime, L. Mappa, G. Marano, A. Scardapane; Bari/IT</td>
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<td>Some perspectives of novel Imaging Methods in Cardiology reflected on recent relevant Industrial Property documents</td>
<td>V. Spyropoulos, M. Bania; Athens/GR</td>
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<td>Diagnostic Accuracy of Fast Thoracic non-contrast MRI versus Chest Radiography for cardiac and non-cardiac findings</td>
<td>M. Ali, F. Secchi, P.M. Cannao, F. Sardanelli; San Donato Milanese/IT, Milan/IT</td>
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<td>Chronotropic effect of sedation for cardiac CT in pediatric patients on the image quality: Preliminary results</td>
<td>M. Ali, F. Secchi, P.M. Cannao, F. Sardanelli; San Donato Milanese/IT, Milan/IT</td>
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<td>256-slice CT scanner in the pre-procedural evaluation of minimally invasive heart surgery procedure</td>
<td>S. Fiore, A. Depaoli, G. Bartoli, A. Cosentino, M. Gatti, F. Guarasci, F. Marchisio, A. Motta, P. Fonio; Torino/IT, Turin/IT</td>
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<td>Evaluation of epicardial adipose tissue by magnetic resonance imaging</td>
<td>A. Kokov, N. Brel, V.L. Masenko, O. Gruzdeva, O. Barbarash; Kemerovo/RU</td>
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<td>Pre Tavi CT Evaluation: Is there a difference between systolic and diastolic measurement?</td>
<td>V. Alberotanza, C. Massarelli, R. Carpentiere, A. Scardapane; Bari/IT</td>
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<td>A rare case of left isomerism with heart abnormalities in a young adult</td>
<td>R. Virelli, V. Alberotanza, G. Parisi, A. Drago, L. Gabrieli, V.M. Rossano, G. Berardi; Bari/IT</td>
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<td>Cardiac MRI: Diagnosis just with late enhancement sequences</td>
<td>I. Salvemini, V. Alberotanza, G. Di Giovanni, A.A. Stabile Ianora, A. Scardapane; Bari/IT</td>
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<td>426</td>
<td>Pulmonary Artery Leiomyosarcoma: Clinical and instrumental assessment</td>
<td>V. Alberotanza, R. Virelli, V.M. Rossano, M.C. Rolli, P. Pignataro, P. Pedote, G. Berardi; Bari/IT</td>
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<td>427</td>
<td>Quantification of epicardial adipose tissue (EAT) volume on cardiac-CT using a semi-automatic segmentation approach: Intra- and inter-operator reproducibility</td>
<td>M. Codari, C. De Angelis, M. Scarabello, F. Secchi, F. Sardanelli; San Donato Milanese/IT, Milan/IT</td>
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<td>428</td>
<td>A systematic review on the MR Safety in patients carrying metallic heart valve</td>
<td>G. Lastella, M. Acquasanta, M. Ali, F. Secchi, G. Di Leo, F. Sardanelli; Milan/IT, San Donato Milanese/IT</td>
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<td>Echocardiography and Cardiac Computer-Tomography: A perfect marriage in surgical management of rupture of right sinus of Valsalva aneurysm associated with ventricular septal defect</td>
<td>M. Carbone, G. Di Giovanni, I. Salvemini, M. D’addato, D. Scaringi, L. Mappa, A. Scardapane; Bari/IT</td>
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430  Eosinophilic myocarditis: A mimic of myocardial infarction  
A. Capelastegui¹, E. Astigarraga¹, C. Barrera Portillo¹, J.J. Onaindia²; ¹Vizcaya/ES, ²Galdakao/ES, ³San Sebastián/ES

431  Diagnosis of ALCAPA syndrome in a asymptomatic 70–years–old man by Computed Tomography: Imaging Findings  
P. Cucchi¹, M. Zerbini¹, R. Righi¹, A. Vizzuso¹, M. Macchia¹, M. Giganti¹, G. Benea¹; ¹Ferrara/IT, ²Lagosanto/IT

432  Imaging characteristics of cardiac metastases in patients with malignant melanoma  
T. Zitzelsberger, T. Eigentler, P. Krumm, K. Nikolaou, C. Garbe, M. Gawaz, B. Klumpp, Tuebingen/DE

433  Features of coronary artery lesions among people of Kazakhstan according to multi-detector computed tomography coronary angiography  
E. Yelshibayeva, T. Dautov; Astana/KZ

434  Arterial Stiffness, Intima–Media–Thickness Measurement, Color Doppler Ultrasonography Findings of Extracranial Vessels In Prediction of Progression of Alzheimer's Disease  
E. Dinç, A. Kurt, I. Gunes Tatar; Ankara/TR

435  Carriers of pacemaker or implantable cardiac electronic devices (ICED): A systematic review about safety of MRI  
M. Zanardo¹, G. Di Leo², S. Schiaffino², F. Secchi², F. Sardanelli²; ¹Milan/IT, ²San Donato Milanese/IT, ³Genoa/IT

436  An unusual anatomic location of symptomatic solitary cardiac hamartoma  
D. Alhassan¹, F. Qaddourah¹, C. Alexiou², S. Al Subaie², S. Al Zaabi¹; ¹Dammam/SA, ²Dahran/SA

437  T1–Mapping in assessment of myocardial regional contractile function in hypertrophic cardiomyopathy  
O.Y. Dariy, S. Alexandrova, V. Makarenko, L. Bockeria; Moscow/RU

438  CT versus Transthoracic Echocardiography; Which Is Better For the Diagnosis of Postoperative Cardiac Tamponade?  
I. Gunes Tatar, M. Seren, O. Ergun, U. Kızıltepe, B. Hekimoglu; Ankara/TR

439  Efficacy of T1 mapping and ECV analysis during stress CMR: Assessment of myocardial involvement in CAD patients  

440  Contrast–induced encephalopathy following coronary angiography with no radiological features: A case report and review of the literature  
L. Au, A. Dattani, K.H. Tay, P. Davey; Northampton/UK

441  Three dimensional modelling in structural heart disease: How can LGE MRI help electrophysiologist?  
S.K. Ternovoy, L. Yeghiazaryan, O. Aparina, O. Stukalova, N. Mironova; Moscow/RU

442  The feasible preventive placement of landmarks, in stentless bioprosthesis, during surgical aortic valve replacement, in keeping with a possible future TAV-in-SAV procedure  
N. Lama, V.P. Patris, D. Fagrezos, P. Moschouris, C. Triantopoulou, P. Maniatis, M. Argiriou; Athens/GR
443 Comparison of large population screening trials for coronary calcium score and regional measures of calcium distribution: ROBINSCA and MESA
M. Vonder1, C. van der Aalst1, R. Vliegenthart1, M. Kaatee1, J.W.C. Gratama1, D. Kuijpers1, H.J. de Koning2, M. Oudkerk1; Groningen/NL, Rotterdam/NL, Apeldoorn/NL

444 Metastasis or Incidental Finding? Dilemma Solved by Cardiac MR
E. Gezmis1, A. Abbas2, A. Lekkas2, C. Peebles3, S. Harden1; Izmir/TR, Southampton/UK

445 Cardiac Manifestations of Behcet’s disease
L. Mc Carthy1, A. Tyrell1, C. Redmond2, G. Healy1, J.D. Dott1; Dublin/IE, Tullamore/IE

446 Wind sock sing in CT-aortography: A rare case of acute type A aortic dissection with left ventricular intimointimal flap intussusception
A. Ionaszik1, T. Severin-Selz1, M. Langer1, A. Kharabish2; Freiburg im Breisgau/DE, Bad Krozingen/DE

447 Stress Evaluation using Functional MRI in patients with Coronary Artery Disease
M. Zashezova, D. Ustyuzhanin, M. Shariya, R. Konovalov, N. Serova, S.K. Ternovoy; Moscow/RU

448 Coronary artery fistulas with contribution of bronchial arteries: Different imaging patterns on MDCT
G. Skouroumouni1, D. Panagiotidou1, M. Kosmidou1, R. Moysidou2, S. Stratilati2; Thessaloniki/GR, Larisa/GR

449 Coronary plaque analysis with intravascular ultrasound and coronary CT in patients with Acute Coronary Syndrome
M. Shabanova, V. Mironov, I.N. Merkulova, S. Gaman, M. Shariya, T.N. Veselova, N. Barysheva, R. Bakhtiozin; Moscow/RU

450 Comparison of sports activity between ambitious triathletes with and without myocardial late gadolinium enhancement

451 The role of cardiac MRI in the management of apical hypertrophic cardiomyopathy (ApHCM): Case report and review of literature
V. Palmisano, M. Mura, M. Porcu, L. Saba; Cagliari/IT

452 Acquired Gerbode defect in post Fallot tetralogy repair
H. Elzomor, W. El Mozy, A. Kharabish; Aswan/EG

Poster titles appear as submitted to the EPOS™ system and have not been checked for correctness and completeness.
ESCR 2017
CME ACCREDITATION

The ESCR Annual Scientific Meeting 2017 has been granted 18 European CME credits (ECMEC®s) by the European Accreditation Council for Continuing Medical Education (EACCME®).

Each participant can only receive the number of credits he/she is entitled to according to his/her actual participation at the event once he/she has completed the feedback form. Cf. criteria 9 and 23 of UEMS 2016.20.

In order to help you issue individual certificates to each participants, please find below the breakdown of ECMEC®s per day:
12.10.2017 - 6.00
13.10.2017 - 6.00
14.10.2017 - 6.00

Through an agreement between the Union Européenne des Médecins Spécialistes and the American Medical Association, physicians may convert EACCME® credits to an equivalent number of AMA PRA Category 1 Credits™. Information on the process to convert EACCME® credit to AMA credit can be found at www.ama-assn.org/go/internationalcme.
DISCLOSURE STATEMENT
POTENTIAL CONFLICT OF INTEREST DISCLOSURES

It is the policy of ESCR, the European Society of Cardiovascular Radiology to ensure balance, independence, objectivity, and scientific rigour in the congress programme. Knowledge of possible relationships with sponsors of any kind is mandatory in order to reinforce the educational and scientific message and to relieve any suspicion of bias.

Any potential conflict of interest involving the organising committee should be made known so that the audience may form their own judgements about the presentation with a full disclosure of the facts. It is for the audience to determine whether the presenter’s external interest may reflect a possible bias in either the work carried out or the conclusions presented.

The individual listed below disclosed the following relationships:
ESCR President, Prof. Matthias Gutberlet:
Bayer, Bracco, Siemens, Philips (Receipt of honoraria or consultation fees: Moderator Honorarium)
ESCR Chairperson Scientific Committee, Prof. Rozemarijn Vliegenthart:
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ESCR 2017
GENERAL INFORMATION

Congress Venue
San Raffaele Congress Centre
Via Olgettina 58
20132 Milano
Italy

Organising Secretariat
Education Congress Research GmbH
ESCR Office
Neutorgasse 9/2a
1010 Vienna/Austria
Phone: +43 1 5355093
Email: office@escr.org
Web: www.escr.org

Onsite Congress Office
In case of any questions, kindly consult the ESCR registration desk. Staff persons will be happy to assist you.

Registration Desk Opening Hours
<table>
<thead>
<tr>
<th>Day</th>
<th>Opening Time</th>
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<tbody>
<tr>
<td>Thursday, October 12</td>
<td>07:30-18:30</td>
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<tr>
<td>Friday, October 13</td>
<td>07:30-18:30</td>
</tr>
<tr>
<td>Saturday, October 14</td>
<td>08:00-17:00</td>
</tr>
</tbody>
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Floor Plan

Floor -1

Case Reading Sessions
Paracelsus Room

Exhibition Area

- Bayer
- Medis
- Heart IT
- Neosoft
- Toshiba
- Medis
- Bracco
- Philips
- Circle
- Guerbet

Floor -2

Room 1
Santa Maria Room

EPOS® Area

Cloak Area
Conference Language
The meeting will be held in English. No simultaneous translation will be offered.

Registration Fee for delegates includes:
- admittance to all scientific sessions
- admittance to the industry exhibition
- congress programme and abstracts
- certificate of attendance
- coffee breaks

Name Changes
Name changes will be treated like the cancellation of the registration and a new registration of the other participant.

Badge/Tickets
You are kindly asked to wear your badge visible on the congress grounds at all time. Pre-ordered evening events tickets will be handed out additionally to the congress badge (if you have not received your pre-ordered tickets, please contact the registration staff members). Evening event tickets may be purchased onsite at the registration desk upon availability.

WIFI
WIFI is available in the foyer on level -1 and -2. WIFI vouchers are available at the registration desk. Please note that only one voucher per person will be offered.

Media Center
The media center is located on level -1. Trained staff will be available to assist you with the equipment. The media center should only be used for a test run of your presentation(s). Please note that the media center should not be used to prepare your entire presentation and that due to the large number of speakers, the workstations are only available for minor editing.

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<td>Saturday, October 14</td>
<td>08:00-15:30</td>
</tr>
</tbody>
</table>

Guidelines for Speakers
- You are kindly requested to submit your presentation at least two hours before your session starts (USB sticks are recommended).
- All presentations have to be uploaded in the conference IT-system. No personal computer will be accepted for projection.
- Please be at the lecture room at the latest five minutes prior to the start of your session and identify yourself to the chairs.
- Kindly observe your exact presentation time. Each session contains enough time for discussion. Exceeding the time limit will not be accepted and the moderator(s) are requested to stop presentations in such cases.
The MR/CT registry is a database for cardiovascular radiologists to upload their cases and examinations anonymously. At the same time they have the possibility to review cases of other registered persons.

The aim of the registry is to document anonymous Cardiac CT- and MR- examinations, which have been performed in Europe, as complete as possible. This seems to be necessary to get a thorough overview of the already existing relevance of these challenging new possibilities in radiology. Further education in the emerging techniques of Cardiovascular Imaging will be supported.

The registry additionally intends to recruit teachers and identify potential training centers throughout Europe. Furthermore, the MR/CT registry does document and certify personally performed Cardiac CT- and MR-examinations for the application of further qualifying procedures (e.g. European Diploma in Cardiovascular Radiology, etc.). This is necessary on a European as well as on a national level.
EPOS™ Area

ESCR 2017 is using EPOS™, the Electronic Presentation Online System, the electronic format of the scientific exhibition developed by the European Congress of Radiology (ECR). EPOS™ offers a much greater flexibility than traditional scientific exhibits and provides better options for scientific communication.

The EPOS™ area is located on level -2 next to meeting room 1. All accepted posters can be viewed online from October 12-14.

Use your own device to browse through the posters: http://posterng.netkey.at/escr/viewing/

Opening Hours
Thursday, October 12 08:30-18:30
Friday, October 13 08:00-18:30
Saturday, October 14 08:30-10:30

EPOS™ Highlighted Session
Join this session and get an overview of the best posters that have been submitted.

Publication
Abstracts of the ESCR Annual Scientific Meeting 2017 will be published online, accessible within the ESCR MyUserArea upon a valid ESCR membership.


Awards
This year the three best oral presentations (best abstract session) will be awarded. ESCR awards 1x Magna Cum Laude, 1x Cum Laude, 1x Certificate of Merit. The winners will be announced in the closing session on Saturday.

Industry Exhibition
The support received from our industry partners is invaluable to the success of the meeting. It is through their support in which many facets of the meeting are made possible. When thinking of their support, it does not only include monetary donations, but also their time. Annually, we encourage all attendees to visit the exhibits and interact with the companies. Such face-time has a direct impact on how a company measures its ROI and decides if they will support future meetings.

We understand that the meeting is one of the rare occasions when we are all able to come together to network and catch-up with colleagues. The breaks tend to be one of the more convenient times during the meeting to do so. However, this is also the time when the vendors ensure that their representatives are available for you.

Opening Hours
Thursday, October 12 07:30-18:30
Friday, October 13 07:30-18:30
Saturday, October 14 08:00-17:00
Industry sponsored Symposium/Slot Attendance
Attendees of any ESCR 2017 industry sponsored symposium/slot agree that their registration details will be forwarded to the company organising that symposium. This agreement may be cancelled at any time by writing to the ESCR Office.

Mobile Phones
Please do not forget to switch off your mobile phones before entering any of the lecture rooms.

Breaks
Complimentary coffee, tea, water and juices will be served during the official coffee breaks to all meeting delegates.

Recording
Photo-, video- or audio-recording of any sessions or presentations is not allowed without the speaker’s/organiser’s prior written permission.

Smoking
The ESCR Annual Scientific Meeting 2017 is a non-smoking congress. We therefore kindly ask all attendees to smoke outside the congress area only.

Cardiovascular Imaging Examination & European Diploma in Cardiovascular Radiology
The time schedule for all candidates has been handed out together with the name badge. In case you have not received/do not know your exact examination time, please contact our staff at the registration desk.

The Cardiovascular Imaging Examination fee of € 20.00 has to be paid onsite at the registration desk.

Please make sure to be at the examination room at least 10 minutes before your scheduled examination starting time.

Future Meeting Desk
This area – located on the entrance level – offers you an overview of future meetings in the field of radiology and related disciplines, from all over the world. Feel free to contribute flyers and posters to promote your own meetings and courses.

Onsite Payment
Onsite payment can only be made by credit card (Visa or Mastercard) or in cash (Euro). Please be informed that no other payment facilities such as debit cards, cheques, etc. will be accepted.

Certificate of Attendance
The Certificate of Attendance can be viewed and printed after the congress upon entering your ESCR MyUserArea at the ESCR website (www.escr.org). To enter the ESCR MyUserArea, please login with your username in combination with your personal password.
Safety
The safety of all congress delegates and participants is of utmost importance to the Education Congress Research GmbH/ESCR 2017. Security measures and precautions at the ESCR 2017 venue have been tightened to ensure maximum security for all attendees. Badges must be worn visibly on the congress grounds at all time. The Education Congress Research GmbH/ESCR 2017 reserves the right for staff to check participants' identification upon admission to and/or inside the congress venue. Participants may at any time be requested to present adequate proof of identity in the form of a passport, driver's license, national or military identification or student ID. Documents for the proof of identity must include a photograph and signature.

Disclaimer/Liability
Education Congress Research GmbH/ESCR 2017 cannot accept any liability for the acts of the suppliers to this meeting or the attendees' safety while travelling to or from the congress. All participants and accompanying persons are strongly advised to carry adequate travel and health insurance, as Education Congress Research GmbH/ESCR 2017 cannot accept liability for accidents or injuries that may occur. Education Congress Research GmbH/ESCR 2017 are not liable for personal injury and loss or damage of private property.
MEMBERSHIP INFORMATION

The European Society of Cardiovascular Radiology lends itself as a forum for interaction and stimulation in the field of cardiovascular radiology. Our members are radiologists engaged in practice, teaching or research in Europe (Full Members), non-radiologist physicians, radiographers, physicists, members of other scientific disciplines and individual members of commercial companies with a special interest in the field of radiology (Associate Members), and radiologists engaged in practice, teaching or research, residing outside Europe (Corresponding Members).

**2018 membership application/renewal will be available from December 2017 onwards!**

### Membership Types 2018

<table>
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<th>Membership Type</th>
<th>Fee</th>
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<tbody>
<tr>
<td>Regular Full Member</td>
<td>€ 100,00</td>
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<tr>
<td>Reduced Full Member</td>
<td>€ 20,00</td>
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<tr>
<td>(members of national cardiac radiology societies)</td>
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<tr>
<td>Regular Full Member – Nuclear Medicine</td>
<td>€ 100,00</td>
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<tr>
<td>Reduced Full Member – Nuclear Medicine</td>
<td>€ 20,00</td>
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<tr>
<td>(members of a cardiac radiology society and/or nuclear medicine association)</td>
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<tr>
<td>Regular Corresponding Member</td>
<td>€ 100,00</td>
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<tr>
<td>Reduced Corresponding Member</td>
<td>€ 20,00</td>
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<tr>
<td>(members of national cardiac radiology societies)</td>
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</tr>
<tr>
<td>Regular Associate Member</td>
<td>€ 100,00</td>
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</tbody>
</table>

### Your ESCR Membership Benefits

- Representation of Cardiovascular Radiology on European level
- Personal ESCR account with access to member’s directory (MyUserArea)
- Reduced Annual Scientific Meeting subscription rate
- Participation to the ESCR Educational Workshops
- Record all your cases on CT and MR in the MRCT-Registry by ESCR
- Receive online access to the ESCR EPOS Database
- Gain online access to the abstracts of the ESCR electronically
- Subscribe to the International Journal of Cardiovascular Imaging at a reduced subscription fee
- Sign up for the Cardiovascular Imaging Examination and/or European Diploma in Cardiovascular Radiology
- Membership certificate
- ESOR scholarship programme
- ESOR fellowship programme
- ESCR newsletter

For more information, please visit the ESCR website at www.escr.org.
ESCR 2017
EVENING EVENT

On behalf of the ESCR 2017 Meeting President, Dr. Francesco De Cobelli, we would like to cordially invite you to join the ESCR 2017 Evening Event.

FRIDAY, OCTOBER 13, 2017, 19:45
CARLO E CAMILLA, VIA GIUSEPPE MEDA, 24, 20141 MILAN
EUR 55.00 PER TICKET

Be part of this special event! The Carlo e Camilla will host our group on Friday evening. Meet colleagues and friends and interact among the dinner attendees. Enjoy an amusing evening with an aperitif, a delicious menu and a fantastic party afterwards.

Tickets are limited and are available on a first come–first served basis. Tickets can be purchased at the registration desk upon availability.

Education Congress Research GmbH/ESCR may not accept liability for personal injury, loss/damage to property, personal or otherwise belongings of participants and/or accompanying persons, either during or as a result of the evening event.
ESCR 2017

INDUSTRY SPONSORED SYMPOSIA

THURSDAY, OCTOBER 12, 13:00-14:00  ROOM 1

State of the art cardiac CT imaging with lowest doses
Moderator: V. Sinitsyn, Moscow/RU

- Initial clinical experience of CT-FFR in clinical practice
  K. Kofoed, Copenhagen/DK
- Cardiac CT on the latest 320-row CT with true MBIR
  R. Bull, Bournemouth/UK

FRIDAY, OCTOBER 13, 13:00-14:00  ROOM 1

Is it time for a revolution in the Cardiac CT practice?
Insights from Centro Cardiologico Monzino, Italy
Chair: O. Adda, Buc/FR

- Cardiac CT on arrhythmic and high heart rate patients: Still a challenge?
  D. Andreini, Milan/IT
- Benefits of wide-volume CT in pre-TAVI and aorta evaluation
  A. Annoni, Milan/IT
- Incremental diagnostic value of CT myocardial perfusion with whole-heart coverage CT scanner
  G. Pontone, Milan/IT

ESCR 2017

NEW HORIZON SESSIONS

FRIDAY, OCTOBER 13, 15:45-16:45  ROOM 1

15:45-16:15  Dose optimization in cardiac CT:
The role of iodine concentration
F. Pugliese, London/UK

16:15-16:45  Cardiovascular Dual-Energy CT
J.L. Wichmann, Frankfurt/DE
ESCR 2017
COMPANY WORKSHOPS

ESCR workshops are free of charge and open to every interested participant. Each workshop will last approx. 75 min. Workshop places are limited and will be offered on a first-come, first-served basis. Workshop places can be booked at the registration desk upon availability.

<table>
<thead>
<tr>
<th>Time</th>
<th>Workshop Type</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:30-12:45</td>
<td>TAVI Workshop 1</td>
<td>Evaluation of CT TAVI Cases</td>
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<td>Coordinator: R. Salgado, Antwerp/BE</td>
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<td>Coordinator: F. Wolf, Vienna/AT</td>
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<tr>
<td>15:45-17:00</td>
<td>Perfusion MRI Workshop 1</td>
<td>Evaluation of perfusion MRI cases</td>
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<td>Coordinator: E. Mershina, Moscow/RU</td>
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<td>Coordinator: E. Pershina, Moscow/RU</td>
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<tr>
<td>17:15-18:30</td>
<td>Anatomy and Function Workshop 1</td>
<td>Workshop on measurement and normal cardiac anatomical/functional values</td>
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<td>in adults and children</td>
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<td>Coordinator: K. Mortensen, Cambridge/UK</td>
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<td>Coordinator: A. Secinaro, Rome/IT</td>
</tr>
</tbody>
</table>
FRIDAY, OCTOBER 13, 2017

10:00-11:15  **3D-Printing Workshop 1**  
Hands-on experience of preparing cardiac imaging data for 3D-Printing  
Coordinator: R. Faletti, Turin/IT  
Coordinator: P. van Ooijen, Groningen/NL

11:30-12:45  **TAVI Workshop 2**  
Evaluation of CT TAVI cases  
Coordinator: R. Salgado, Antwerp/BE  
Coordinator: F. Wolf, Vienna/AT

15:45-17:00  **Perfusion MRI Workshop 2**  
Evaluation of perfusion MRI cases  
Coordinator: E. Mershina, Moscow/RU  
Coordinator: E. Pershina, Moscow/RU

17:15-18:30  **T1/T2 Mapping Workshop 1**  
How to evaluate T1 and T2 mapping  
Coordinator: M. Francone, Rome/IT  
Coordinator: N. Galea, Rome/IT  
Coordinator: C. Lücke, Leipzig/DE

SATURDAY, OCTOBER 14, 2017

08:30-09:45  **3D-Printing Workshop 2**  
Hands-on experience of preparing cardiac imaging data for 3D-Printing  
Coordinator: R. Faletti, Turin/IT  
Coordinator: P. van Ooijen, Groningen/NL

10:00-11:15  **Anatomy and Function Workshop 2**  
Workshop on measurement and normal cardiac anatomical/functional values in adults and children  
Coordinator: K. Mortensen, Cambridge/UK  
Coordinator: A. Secinaro, Rome/IT

11:30-12:45  **T1/T2 Mapping Workshop 2**  
How to evaluate T1 and T2 mapping  
Coordinator: M. Francone, Rome/IT  
Coordinator: N. Galea, Rome/IT  
Coordinator: C. Lücke, Leipzig/DE
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- TOSHIBA MEDICAL
The European Board of Cardiovascular Radiology (EBCR) Diploma is a common European qualification in Cardiovascular Radiology and will help to standardise training and expertise in Cardiovascular Radiology across Europe. The EBCR Diploma is endorsed by the European Society of Radiology (ESR).

The EBCR Diploma confirms specific competence of radiologists to perform, interpret and report cardiovascular CT and MR independently. This Diploma represents a recognised qualification in cardiovascular radiology (CR). The EBCR Diploma will assist cardiovascular radiologists in the promotion of their skills and experience in cardiovascular radiology when dealing with other clinical colleagues and with the general public.

Save the date and apply now!
The next regular EBCR Diploma examination will be held on occasion of ECR 2018 in Vienna/AT in March 2018.

For more information, please visit the ESCR website at www.escr.org.
ESC 2017
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