



EACVI

European Association of
Cardiovascular Imaging

Euro**CMR** 2019

EXTENDING THE CLINICAL VALUE OF CMR
THROUGH QUALITY AND EVIDENCE



2-4 May

Venice

I T A L Y

FINAL PROGRAMME

17th Annual Meeting

on Cardiovascular Magnetic Resonance (CMR)
of the European Association of Cardiovascular Imaging (EACVI)

www.escardio.org/EACVI

#EuroCMR

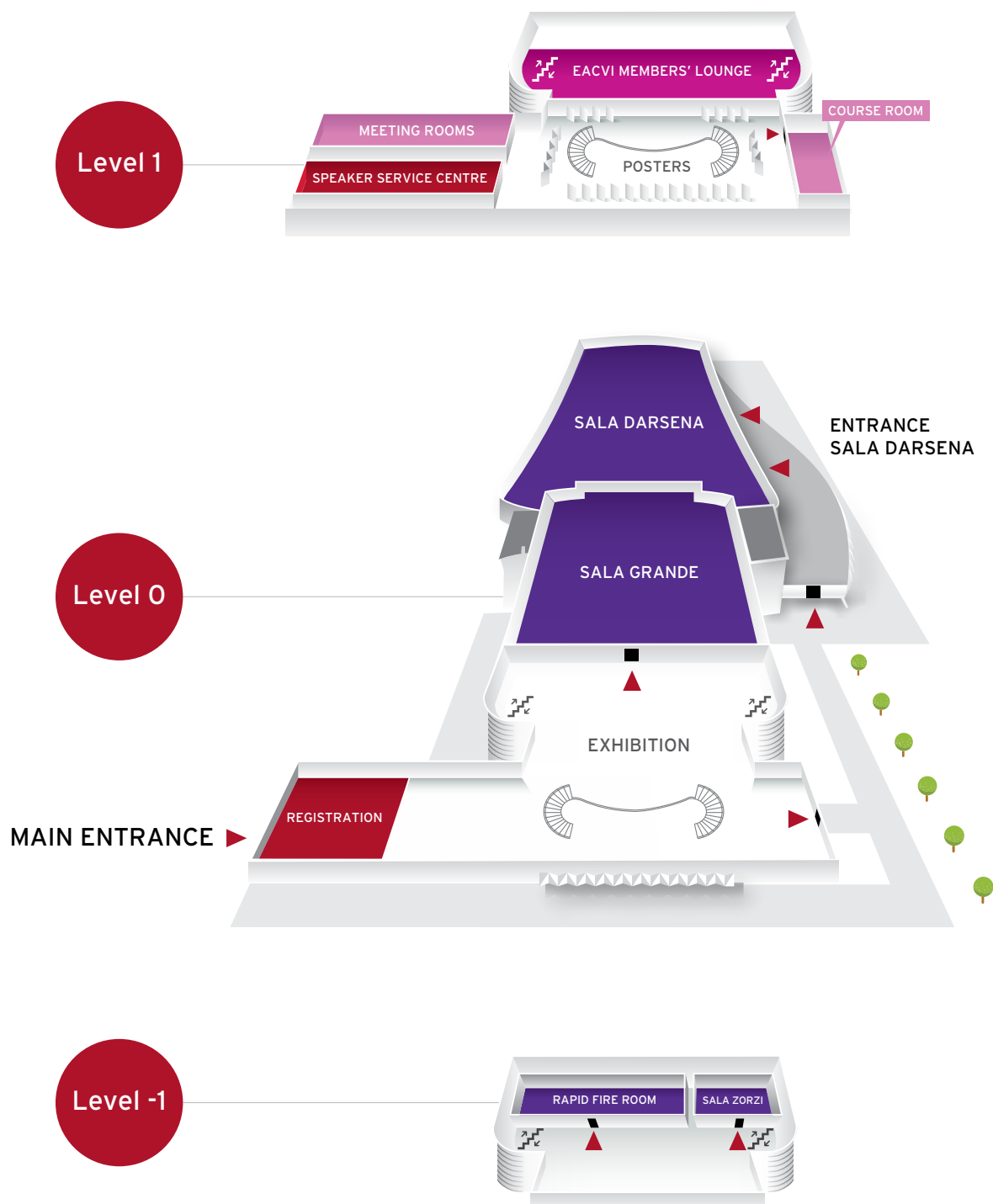
Programme as of 5 April 2019



ESC

European Society
of Cardiology

Building overview



Welcome Letter

Dear Friends & Colleagues,

Welcome to EuroCMR 2019 Congress in Venice, Italy!

We are delighted to welcome you to EuroCMR 2019, the annual meeting on CMR of the European Association of Cardiovascular Imaging (EACVI), which has developed over the last few years into the largest European CMR conference with over 1,000 participants in Prague in 2017.

This year's congress theme is **"Extending the clinical value of CMR through quality and evidence"**. Throughout the programme, we will focus on the existing and emerging evidence behind the established and potential clinical indications of CMR and will highlight how high-quality research and clinical service provision can make a difference to patients and populations. In times of very limited resources available to finance health care, we will also discuss health economics relevant to cardiac imaging in a multi-modality context. We want this to be your conference. We invited all members of the EACVI to actively contribute to EuroCMR 2019 by responding to our call for session proposals and we look forward to providing an international platform for you to present your research abstracts. We are confident that our programme will provide you with what you are looking for: networking with like-minded colleagues, learning from the experts about important disease-focused cardiac imaging topics, being updated on the latest and impactful CMR research, revising for the European CMR exam, finding out about latest developments from our commercial sponsors or simply enjoying the always entertaining quiz session (The Chase).

For the first time, EuroCMR will be in Venice: we cannot imagine a better place to host this conference. Importantly, Italy is in the top three in terms of EACVI members whose main field of expertise is CMR.

Venice is easily accessible nationally and internationally with sufficient affordable accommodation near the excellent conference venue which promises to create a vibrant atmosphere for this exchange of science and knowledge.

Thank you for being with us in Venice, we look forward to seeing you in the coming days.

EuroCMR 2019 Organising Committee



Prof. Jose Rodriguez Palomares
EuroCMR 2019
Programme Chair



Prof. Steffen Petersen
EACVI Vice President
for CMR 2018-2020



Prof. Ana Almeida
EuroCMR 2019
Abstract Chair



Prof. Thor Edvardsen
EACVI President
2018-2020



Dr. Chiara Bucciarelli-Ducci
EACVI Vice President for CMR
2016-2018



Assoc. Prof. Martina Perazzolo Marra
EuroCMR 2019 Local Host

About the European Association of Cardiovascular Imaging (EACVI)

a branch of the ESC

The EACVI is the organiser of EuroCMR 2019.

We are a not-for-profit organisation. Everything we do is to support our 14,000 members and all healthcare professionals - cardiologists, technicians, nurses, basic scientists and allied professionals - from cardiovascular imaging worldwide so they can deliver the best possible evidence-based care to patients.

Our activities are driven by volunteers who are renowned experts from across all imaging techniques - echocardiography, cardiovascular magnetic resonance, nuclear cardiology and cardiac computed tomography.

Our Mission: to promote excellence in clinical diagnosis, research, technical development, and education in cardiovascular imaging.

14,000 members

150 board and committee members. As experts, they create:

3 congresses in 2019: EuroEcho, EuroCMR and ICNC

1 congress in 2020: EACVI 2020

76 didactic tutorials

15 live webinars per year

More online learning resources with a clinical case gallery, 4 toolboxes, recommended reading,...

Research and training grants every year



9 certification exams per year in 6 topics

5 courses every year

A 8.336 impact factor journal: the European Heart Journal - Cardiovascular Imaging

High quality scientific publications including 7 books

Visit the **EACVI/ESC stand** to learn about our membership offer, educational initiatives and more.

About the European Society of Cardiology (ESC)

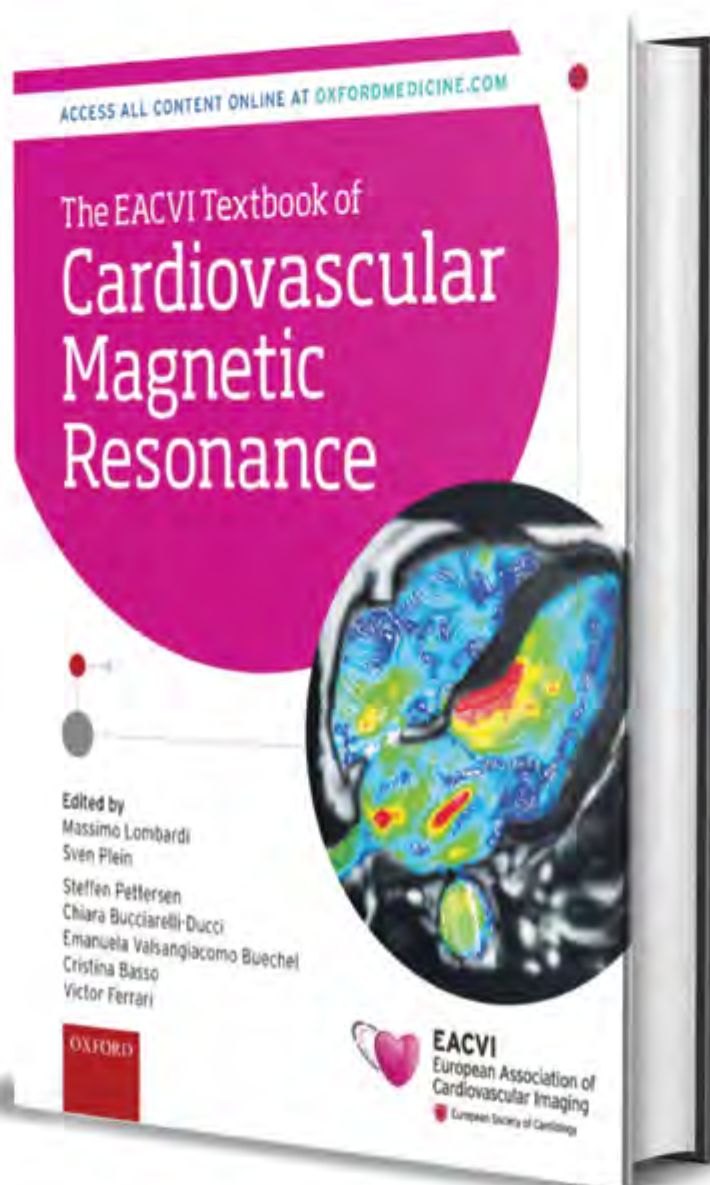
The ESC is the world's largest organisation of healthcare professionals dedicated to fighting heart disease. We help more than 105,000 cardiologists and allied professionals from 150 countries expand the boundaries of cardiovascular medicine so people can lead longer, healthier lives.

The ESC publishes scientific journals, an array of textbooks and the latest Clinical Practice Guidelines. It provides continuing medical education through webinars and classroom courses, and hosts a variety of internationally renowned scientific congresses.

More info on www.escardio.org



Your must-have publication



Visit the EACVI/ESC stand to purchase your copy.
Online subscription also available.

www.escardio.org/cmr-textbook

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EACVI
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Cardiovascular Imaging
 European Society of Cardiology



EACVI

European Association of
Cardiovascular Imaging

NEW!

Fellow of the **EACVI**

DISTINCTION IN CARDIOVASCULAR IMAGING



**YOUR PROFESSIONAL EXCELLENCE
DESERVES RECOGNITION**



Be a FEACVI

www.escardio.org/EACVI-fellowship

Application deadline: 30 October



ESC

European Society
of Cardiology

Congress information

Congress timetable

	Wednesday 1 May	Thursday 2 May	Friday 3 May	Saturday 4 May
Registration	14:30 - 18:00	07:30 - 19:00	07:30 - 19:30	07:30 - 15:00
Speaker Service Center	14:30 - 18:00	07:30 - 19:00	07:30 - 19:30	07:30 - 15:00
Members' Lounge		08:00 - 18:00	08:00 - 18:00	08:00 - 13:00
Scientific Sessions		08:30 - 18:05*	08:30 - 19:05	08:30 - 14:30
Exhibition		08:30 - 18:00	08:30 - 18:00	08:30 - 13:00

* The Inaugural Session will take place on Thursday 2 May from 17:05 to 18:05 and will be followed by a networking reception near the EACVI/ESC stand

Continuing Medical Education

EuroCMR 2019 is currently under review by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists. The EACCME is an institution of the European Union of Medical Specialists (UEMS), www.uems.net.

CHECK THE SESSION'S ICONS IN THE PROGRAMME



MOBILE APP
INTERACTIVE
SESSION



AWARDS
SESSION



LEVEL 1
TRACK



SPECIAL
COURSE



CASE
SESSIONS



MAIN
SESSIONS



TECHNOLOGIST
TRACK



CONGENITAL
TRACK



MEET THE
EXPERTS



Get your Level 1 Certification in CMR

Level 1 certification will enable delegates to become conversant with the field of Cardiovascular Magnetic Resonance for application in general clinical management of cardiovascular patients.

Sessions are open to all delegates.

To get certified you will need to attend at least 14 sessions of the 17 sessions listed in the Level 1 Track (check the programme for full details) and pay a fee of €50 in addition to your registration fee. Registration on-site is possible at the registration desk. Please be sure to scan your badge at the beginning of each session of the track. A certificate will be delivered by email after the congress.



Don't miss the Special Courses

All courses will run in the "Course Room" (check the programme for details).

For the level 2/3 dedicated case sessions certificates will be delivered at the end of the sessions.

Seats are limited and pre-registration is mandatory to attend these sessions.

Pre-registrations are managed on-site. Sign up now at the dedicated desk located in front of the Course Room (level 1).

Practical information



Certificates

For attendance - available from the registration desks as of Friday 3 May 2019 midday.

For presentation - available for abstract presenters at the poster assistance desk in the poster area.



Internet connection

Free wifi is available at the congress centre. However please note that connectivity is subject to the volume of users.

Wifi name: eurocmr-congress

Wifi password: eurocmr-congress

Computers with internet access are located in the exhibition.



Info points

For any other information please address the organisers at the registration.



Security

Please ensure your badge is visible at all times and comply with security controls that you may be subject to within the congress venue.



Coffee breaks & refreshments

Coffee will be served to delegates in the Exhibition Area.

A cash bar is also available in the Exhibition Area.

Meet the EACVI Board at the cocktail for young delegates:

Friday 3 May at 19:15 in the EACVI Members' Lounge.

EACVI Members' Lounge

The lounge is an exclusive area located in the exhibition where EACVI Silver Members are invited to enjoy breaks and refreshments.

Become a Member at the EACVI/ESC stand



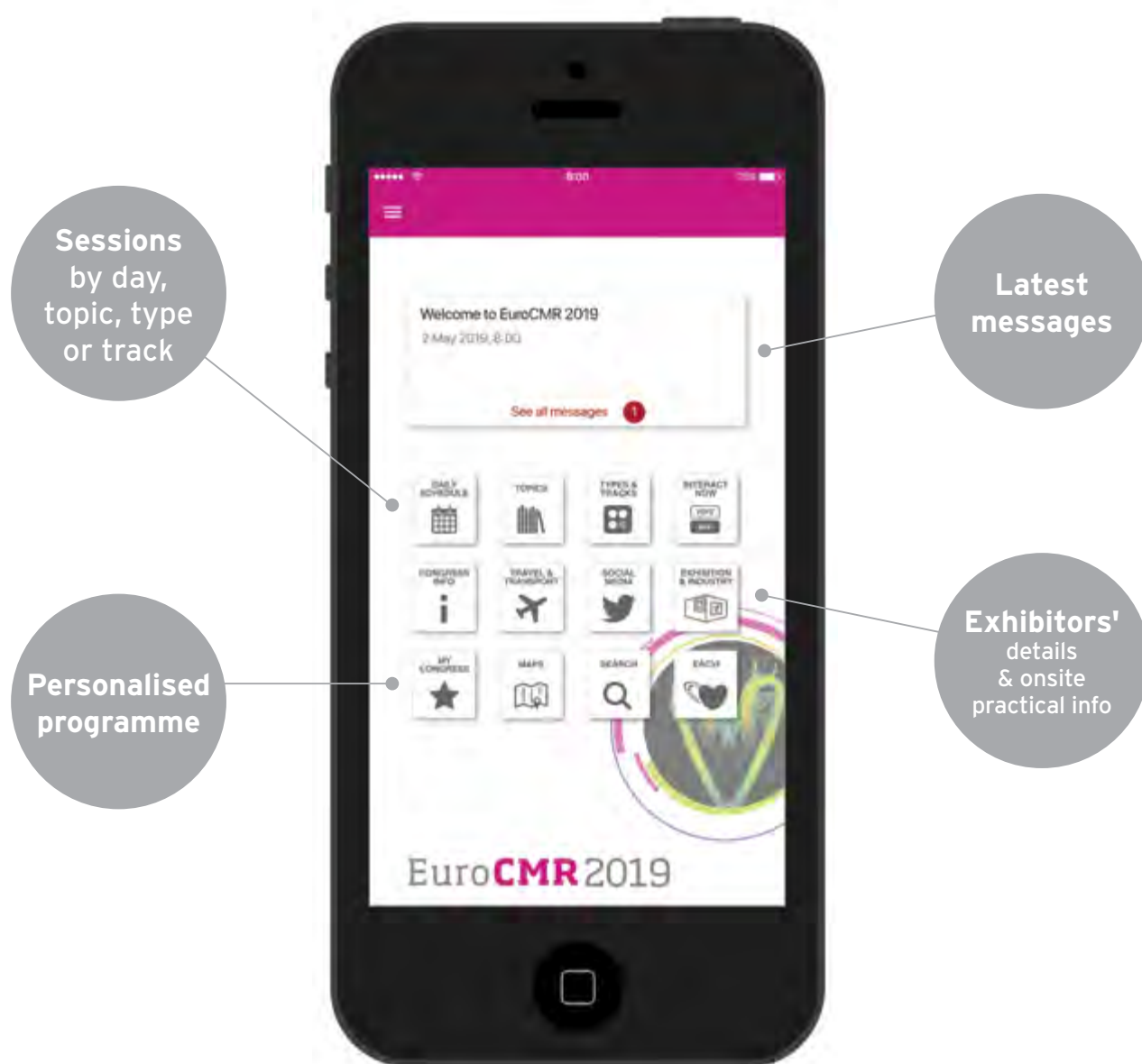
Prize Draw

Enter our lucky prize draw for a chance to win a special prize!

Visit all stands in the exhibition area and collect exhibitor's stamps on your competition card (inserted in your delegate bag). Once you collect ALL stamps, hand it to the registration desk.



Download **EuroCMR** Mobile App



**Search for 'ESC Congresses' or
'EuroCMR' in App Store® / Google Play.**

EuroCMR is now a part of ESC Congresses app.

Scientific Resources

Select the presentation of interest and click on:
"View Full Abstract" or "Access slides and videos online"

THURSDAY 2 MAY

08:30 - 10:00	 Advanced Course I: CMR in clinical applications <i>Level 1 Track</i>	Sala Grande
	Basic Course: how to do CMR - part I <i>Level 1 Track</i>	Sala Darsena
	Special Course 1: scanning cardiac devices	Sala Zorzi
10:00 - 11:00	Moderated ePosters session 1: T1 and T2 mapping, T2*	Moderated ePoster area
10:45 - 12:45	Case session for level 2/3 logbooks session 1	Course Room
11:15 - 12:45	 Advanced course II: new applications in CMR <i>Level 1 Track</i>	Sala Grande
	Basic Course : how to do CMR - part II <i>Level 1 Track</i>	Sala Darsena
	Moderated ePosters session 2: frontiers in viability imaging	Moderated ePoster area
13:45 - 15:15	 Advanced course III: post-processing and interpretation <i>Level 1 Track</i>	Sala Grande
	Advanced course congenital I <i>Level 1 Track</i>	Sala Darsena
13:45 - 15:45	Case session for level 2/3 logbooks session 2 <i>Supported by Circle Cardiovascular Imaging</i>	Course Room
16:00 - 17:00	Technical advances (Cloud +AI) for a more quantitative and data driven Cardiac MR analysis <i>This programme is sponsored by Arterys</i>	Sala Grande
	Cutting edge results on CMR for coronary disease - <i>This programme is sponsored by Bayer AG / Siemens Healthineers</i>	Sala Darsena
	Advanced course congenital II	Course Room
17:05 - 18:05	 Inaugural session <i>Level 1 Track</i>	Sala Grande

Poster session 1 - Abstracts & Clinical Cases
Viewing times: 10:00-11:00 and 12:45-13:45

FRIDAY 3 MAY

08:30 - 09:30	 Opening plenary - Quality through evidence and CMR innovation <i>Level 1 Track</i>	Sala Grande
09:35 - 10:50	 Young Investigator Award session <i>Level 1 Track</i>	Sala Grande
	Pros/cons in ischaemic heart diseases - <i>Joint session with the EACVI Section on Nuclear Cardiology and Cardiac-Computed Tomography</i>	Sala Darsena
	Cardiac Magnetic Resonance imaging in practice. A look at some clinical interesting and topical applications of CMR	Sala Zorzi
	Failing better: how do experienced researchers and clinicians manage inevitable failures?	Course Room
10:50 - 11:30	Clinical case session: solving challenges in daily practice	Rapid Fire Room
	Moderated ePosters session 3: CMR - Deformation imaging	Moderated ePoster area
11:30 - 12:30	 Multimodality in valvular heart disease - <i>Joint session with the EACVI Echo section and the CMR section - Level 1 Track</i>	Sala Grande
	Value of CMR in healthcare - <i>Joint session with the LSE Department of Health Policy and the European Heart Academy</i>	Sala Darsena
	Applications of new techniques in congenital heart disease	Sala Zorzi
	Special Course 2: heart diseases with CMR correlations	Course Room
12:45 - 13:45	Rapid Fire Abstract 1: parametric mapping: virtual biopsy in clinical practice	Rapid Fire Room
	The next level of mapping - Quantitative perfusion and electrophysiology - <i>This programme is sponsored by Circle Cardiovascular Imaging</i>	Sala Grande
14:00 - 15:00	Multimodality imaging in cardio-oncology - <i>Joint session with the European Society of Cardiac Radiology (ESCR) and the European Association of Nuclear Medicine (EANM)</i>	Sala Grande
	 The best cases from all around the world <i>Level 1 Track</i>	Sala Darsena
	Abstract session 1: value of CMR stress perfusion: latest evidence	Sala Zorzi
	Special Course 3: myocardial structural dynamics and diffusion tensor CMR	Course Room
15:00 - 15:45	Rapid Fire Abstract 2: how CMR can help in congenital heart disease	Rapid Fire Room
	Moderated ePosters session 4: CMR values and flow	Moderated ePoster area
	The hidden gems in Venice: new applications of CMR and hybrid imaging	Sala Grande
	 CMR in aortic diseases - <i>Joint session with the Working Group on the aorta and peripheral vascular diseases - Level 1 Track</i>	Sala Darsena
15:45 - 16:30	The nightmare of pericardium and masses: how can CMR help me?	Sala Zorzi
	Special Course 4: 3D printing <i>Supported by Medviso AB</i>	Course Room
	Rapid Fire Abstract 3: stress CMR: utility in coronary artery disease and beyond	Rapid Fire Room
	Cardiovascular Magnetic Resonance in acute coronary syndromes: luxury or do we need it? - <i>Joint session with the Asian Society of Cardiovascular Imaging (ASCI)</i>	Sala Grande
16:45 - 18:00	 CMR in tropical heart diseases - <i>Joint session with the Association of the Interamerican Society of Cardiology (ECOSIAC) - Level 1 Track</i>	Sala Darsena
	Abstract session 2: CMR guiding diagnosis and prognosis in cardiomyopathies	Sala Zorzi
	Special Course 5: 4D flow	Course Room
	Rapid Fire Abstract 4: clinical applications of cardiac function phenotyping	Rapid Fire Room
18:05 - 19:05	EuroCMR Quiz: the chase	Sala Grande
	Managing big data in CMR - <i>Joint session with the Medical Image Computing and Computer Assisted Intervention (MICCAI)</i>	Sala Darsena
	 Abstract session 3: CMR beyond volumes and ejection fraction <i>Level 1 Track</i>	Sala Zorzi
	Rapid Fire Clinical case: unmasking riddles with CMR	Rapid Fire Room

Poster session 2 - Abstracts & Clinical Cases
Viewing times: 10:50-11:30 and 15:00-15:45

SATURDAY 4 MAY

08:30 - 09:30	Controversies in familial cardiomyopathies	Sala Grande
	1 Late-Breaking Science session: the best looks from the Venice Film Festival: trials and population studies <i>Level 1 Track</i>	Sala Darsena
	An introduction to the fundamental areas of Cardiac Magnetic Resonance imaging including image optimisation and safety	Sala Zorzi
	Special Course 6: heart diseases with CMR correlations	Course Room
	Rapid Fire Abstract 5: late gadolinium enhancement	Rapid Fire Room
09:35 - 10:50	CMR through evidence and guidelines - <i>Joint session with the Society for Cardiovascular Magnetic Resonance (SCMR)</i>	Sala Grande
	1 The increasing importance of CMR in heart failure <i>Level 1 Track</i>	Sala Darsena
	A potpourri of our best clinical cases	Sala Zorzi
	Special Course 7: myocardial deformation	Course Room
09:35 - 11:05	Rapid Fire Abstract 6: 4D flow and valvular heart disease: can CMR add value?	Rapid Fire Room
10:50 - 11:50	Moderated ePosters session 5: tissue characterisation in non-ischaemic heart disease	Moderated ePoster area
12:00 - 13:00	1 Athletes and arrhythmias: the role of CMR in risk assessment <i>Level 1 Track</i>	Sala Grande
	How can CMR imaging improve outcome in congenital cardiology	Sala Darsena
	Abstract session 4: latest advances in CMR technology and safety	Sala Zorzi
	Special Course 8: how to read CMR for extra cardiac findings	Course Room
	Rapid Fire Abstract 7: cardiomyopathy	Rapid Fire Room
13:05 - 14:30	1 Closing plenary: what is in the crystal ball of CMR: from Venice to Mars <i>Level 1 Track</i>	Sala Grande

Poster session 3 - Abstracts & Clinical Cases
Viewing times: 10:50-11:50



Industry at EuroCMR 2019

Acknowledgement

ARTERYS

Bayer AG

British Society of Cardiovascular Magnetic Resonance

Circle Cardiovascular Imaging

Cohesic Inc.

European Association of Cardiovascular Imaging (EACVI)

GE Healthcare

Guerbet Healthcare

Medis Medical Imaging Systems BV

Medviso AB

NeoSoft Medical LLC

Philips

Pie Medical Imaging

Siemens Healthineers

Società Italiana di Cardiologia (Italian Society of Cardiology) - WG on CMR

TeraRecon

Wisepress LTD

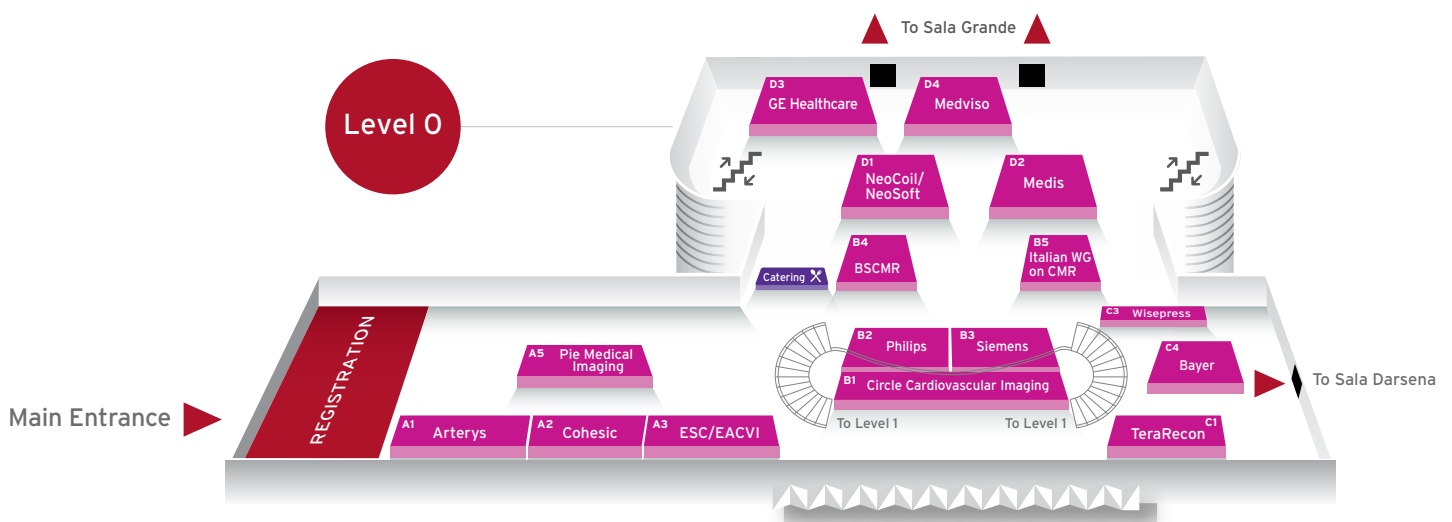
Exhibition (as of 05/04/19)

The fight against cardiovascular disease is a shared mission. Our industry partners offer a rich educational programme to delegates throughout the congress. Discover the wide variety of activities from educational sessions to stand activities.

The exhibition area will be an integral part of the congress and delegates are invited to discover the latest products and technologies on the many stands throughout the event. The exhibition will provide you with a unique opportunity to catch a glimpse of the technological developments in the field of cardiovascular magnetic resonance by showcasing your products in the technical exhibition.

Exhibition Opening Hours

Thursday 2 May	08:30 - 18:00
Friday 3 May	08:30 - 18:00
Saturday 4 May	08:30 - 13:00



Exhibitors

ARTERYS	A1	Medviso AB	D4
Bayer AG	C4	NeoSoft Medical LLC	D1
British Society of Cardiovascular Magnetic Resonance	B4	Philips Healthcare	B2
Circle Cardiovascular Imaging	B1	Pie Medical Imaging	A5
Cohesic Inc.	A2	Siemens Healthineers	B3
European Association of Cardiovascular Imaging (EACVI/ESC)	A3	Società Italiana di Cardiologia (Italian Society of Cardiology) - WG on CMR	B5
GE Healthcare	D3	TeraRecon	C1
Medis Medical Imaging Systems BV	D2	Wisepress LTD	C3

Satellite Symposia (as of 05/04/19)

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

- Arterys
- Bayer AG/Siemens Healthineers
- Circle Cardiovascular Imaging

For further information, please refer to the scientific programme daily sections, the online scientific programme and planner (SPP) or the Mobile App.

Sponsorship (as of 05/04/19)

The ESC gratefully acknowledges the following organisation which has contributed to the success of EuroCMR 2019 via educational grant, support of delegate services materials and other sponsorship opportunities.

- Circle Cardiovascular Imaging BV
- Medviso AB

Industry Showcase

Saturday, 4 May 2019 - 11:00-11:20, Rapid Fire Room

Benefits of the PSIR HeartFreeze inline motion compensation in clinical practice

Sponsored by Siemens Healthineers

Dr. Joao Cavalcante, MD (Minneapolis Heart, USA)



90 seconds to win the new ESC textbook!

Come to the EACVI/ESC stand A3

Update your My ESC account
for a chance to win the new
*ESC Textbook of Cardiovascular
Medicine 3rd edition**



Prize draw date:
4 May 2019 - 12h00

The ESC textbook will be sent directly to your institution

*Rules and regulations for participation available on dedicated terminal

 **ESC**
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EACVI
European Association of
Cardiovascular Imaging

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Thursday 2 May



NEW
 **ESC 365**



- > Browse the most up-to-date scientific programme in the EuroCMR Mobile App
- > Missed a session? Consult videos, slides sets and abstracts on the NEW ESC 365 www.escardio.org/365
- > Tweet about your favourite sessions **#EuroCMR**

Morning Sessions



08:30 - 10:00

ADVANCED COURSE

Sala Grande

Advanced Course I: CMR in clinical applications

Chairperson(s): A.M.G. Almeida (Lisbon, PT); J. Greenwood (Leeds, GB)

08:30 >	Differential diagnosis in acute chest pain. <i>J. Cavalcante (Minneapolis, US)</i>	1
08:42 >	CMR in familial cardiomyopathies. <i>F. Alpendurada (London, GB)</i>	2
08:55 >	Cardiac evaluation in a patient with arrhythmias. <i>E. Perez-David (Majadahonda, ES)</i>	3
09:08 >	CMR in patients with heart failure. <i>M. Fontana (London, GB)</i>	4
09:21 >	Evaluation of cardiac masses with CMR. <i>A. Pepe (Pisa, IT)</i>	5
09:34 >	CMR in pulmonary hypertension. <i>S. Prasad (London, GB)</i>	6
09:47 >	What an adult CMR clinician needs to know about congenital heart diseases. <i>W.A. Helbing (Rotterdam, NL)</i>	7



08:30 - 10:00

BASIC COURSE

Sala Darsena

Basic Course: how to do CMR - part I

Chairperson(s): S. Mavrogeni (Athens, GR); H. Frank (Tuln, AT)

08:30 >	What a clinician should know about physics. <i>R. Manka (Zurich, CH)</i>	8
08:42 >	CMR sequences ready for cardiac applications. <i>H. Engblom (Lund, SE)</i>	9
08:55 >	Safety of CMR (contrast, devices, childhood and pregnancy). <i>P. Masci (London, GB)</i>	10
09:08 >	LV and RV morphology and functional analysis. <i>M. Sirol (Boulogne, FR)</i>	11
09:21 >	Late gadolinium enhancement and viability. <i>O. Simonetti (Columbus, US)</i>	12
09:34 >	Valvular imaging with CMR. <i>G. McCann (Leicester, GB)</i>	13
09:47 >	MR angiography and coronary imaging. <i>L. Natale (Rome, IT)</i>	14

CHECK THE SESSION'S ICONS

MOBILE APP
INTERACTIVE
SESSIONAWARDS
SESSIONLEVEL 1
TRACKSPECIAL
COURSECASE
SESSIONSMAIN
SESSIONSTECHNOLOGIST
TRACKCONGENITAL
TRACKMEET THE
EXPERTS

Morning Sessions



08:30 - 10:00

SPECIAL COURSE

Sala Zorzi

Special Course 1: scanning cardiac devices

Chairperson(s): J. Moon (London, GB); S. Hilbert (Leipzig, DE)

08:30 >	Magnetic resonance imaging for cardiac device patients - A growing clinical imperative. <i>G. Pontone (Milan, IT)</i>	15
08:45 >	Post-MAGNAsafe: all patients with cardiac devices can undergo magnetic resonance imaging - PRO. <i>C. Manisty (London, GB)</i>	16
08:57 >	Post-MAGNAsafe: all patients with cardiac devices can undergo magnetic resonance imaging - CONTRA. <i>M. Schmitt (Lymm, GB)</i>	17
09:09 >	Post-MAGNAsafe: all patients with cardiac devices can undergo magnetic resonance imaging - REBUTTALS. <i>C. Manisty (London, GB), M. Schmitt (Lymm, GB)</i>	18
09:15 >	Challenges and solutions when setting up a service - The technologists' perspective. <i>J. Francis (Harrow, GB)</i>	19
09:30 >	Tips and tricks to minimise artefact for cardiac magnetic resonance imaging in device patients. <i>J. Schwitler (Lausanne, CH)</i>	20
09:45 >	The patient journey: pre-recorded excerpts to demonstrate clinical workflows. <i>A. J. Baksi (London, GB)</i>	21

10:00 - 11:00

MODERATED POSTERS

Moderated ePoster area

Moderated ePosters session 1: T1 and T2 mapping, T2*

Chairperson(s): F. Alpendurada (London, GB); M. Lombardi (San Donato Milanese, IT)

Morning Moderated ePoster session:

Moderated ePosters are on display on the plasma screen of their assigned Moderated Poster station Presentation and discussion moderated by the chairpersons take place between 10:00 - 11:00

Effects of myoglobin oxygenation on oxygenation-sensitive cardiovascular magnetic resonance images: an invitro study <i>M. Michel, P. Gulac, K. Fischer, B. Jung, S.L. Longnus, D.P. Guensch (Bern, CH)</i>	22
Quantification of post-reperfusion intramyocardial haemorrhage with cardiac magnetic resonance imaging in an ischemia/reperfusion pig model: T2* vs R2* vs R2' <i>P. Lopez Ayala, X. Rossello, R. Fernandez-Jimenez, E. Oliver, C. Galan, A. De Molinalracheta, J. Aguerro, G. Lopez, M. Lobo-Gonzalez, J.P. Vilchez-Tschischke, V. Fuster, J. Sanchez-Gonzalez, B. Ibanez (Madrid, ES; New York, US)</i>	23
Excess of myocardial water and fibrosis define myocardial hypertrophy in uremic but not in hypertrophic cardiomyopathy - TrueTypeCKD study <i>L. Arcari, R. Hinojar, G. CarrWhite, H. Zainal, H. Zhou, M. Vasques, A. Rolf, I. Hauser, T.J. Vogl, A.M. Zehier, M. Volpe, E. Nagel, V. Puntmann (Frankfurt am Main and Bad Nauheim, DE; Madrid, ES; London, GB; Rome, IT)</i>	24
Standardisation of post processing methods of Native T1: analytical study of multivendor comparisons <i>H. A. Zainal Abidin, H. Zhou, L. Arcari, M. Albrecht, C. Arendt, M. Vasquez, V. Sokalkis, V. Puntmann, E. Nagel (Selangor, MY; Frankfurt am Main, DE)</i>	25
Bioimpedance spectroscopy reveals association of fluid status and extracellular volume by cardiovascular magnetic resonance <i>A. Kammerlander, C. Nitsche, O. Anegg, T. Poschner, M. Koschutnik, S. Aschauer, F. Duca, C. Loewe, C. Hengstenberg, J. Mascherbauer (Vienna, AT)</i>	26
A medical device grade T2 phantom to quality control inflammation imaging by CMR <i>H.S. Seo, G. Captur, B. Ittermann, W. Pang, K. Keenan, P. Kellman, R. Nezafat, N. Chaturvedi, A. Hughes, J.C. Moon (London and Greater London, GB; Berlin, DE; Claremont, AU; Boulder, Bethesda and Boston, US)</i>	27
Adenosine stress native T1 mapping demonstrates impaired myocardial perfusion reserve in non-ischemic dilated cardiomyopathy <i>Z. Tsoumani, C. Miller, M. Schmitt, G. Nucifora (Manchester, GB)</i>	28
Detection of myocardial iron overload with magnetic resonance by native T1 and T2* mapping using a segmental approach <i>A. Pepe, N. Martini, D. De Marchi, A. Barison, L. Pistoia, M.G. Bisconte, S. Pulini, A. Massa, A. Carollo, M. Serra, V. Positano, A. Meloni (Pisa, Cosenza, Pescara, Olbia, Trapani and Lecce, IT)</i>	29
Radiotherapy-induced changes in breast cancer patients in extra cellular volume and T1 mapping in cardiac magnetic resonance imaging and in ECG six years after radiotherapy treatment <i>S. Tuohinen, T. Skytta, V. Virtanen, K. Nikus, P.L. Kellokumpu-Lehtinen, P. Raatikainen, S. Kivisto (Helsinki and Tampere, FI)</i>	30

Morning Sessions

CONGENITAL
TRACK

10:45 - 12:45

TEACHING COURSE

Course Room

Case session for level 2/3 logbooks session 1**Chairperson(s): O. Tann (London, GB); E. Valsangiacomo Buechel (Zurich, CH)**

- | | | |
|---------|---|----|
| 10:45 > | Presentation 1.
<i>O. Tann (London, GB)</i> | 31 |
| 10:45 > | Presentation 2.
<i>E. Valsangiacomo Buechel (Zurich, CH)</i> | 32 |

LEVEL 1
TRACK

11:15 - 12:45

ADVANCED COURSE

Sala Grande

Advanced course II: new applications in CMR**Chairperson(s): S. Prat Gonzalez (Barcelona, ES); F. Alpendurada (London, GB)**

- | | | |
|---------|---|----|
| 11:15 > | Parametric mapping and clinical applications.
<i>M. Ugander (Stockholm, SE)</i> | 33 |
| 11:30 > | Clinical applications of myocardial perfusion quantification.
<i>A. Chiribiri (London, GB)</i> | 34 |
| 11:45 > | 4Dflow sequences and how to improve acquisition.
<i>J. Carr (Chicago, US)</i> | 35 |
| 12:00 > | Noncontrast CMR approaches to assess myocardial ischaemia.
<i>V. Ferreira (Oxford, GB)</i> | 36 |
| 12:15 > | Diffusion tensor imaging and the sheetlets of the heart.
<i>S. NIELLESVALLESPIN (London, GB)</i> | 37 |
| 12:30 > | Artificial intelligence in CMR acquisition and fingerprinting.
<i>C. Prieto (London, GB)</i> | 38 |

11:15 - 12:45

BASIC COURSE

Sala Darsena

Basic Course : how to do CMR - part II**Chairperson(s): B.L.M. Gerber (WoluweSt. Lambert, BE); M. Westwood (London, GB)**

- | | | |
|---------|---|----|
| 11:15 > | CMR artefacts and how to avoid them.
<i>R. Boubertakh (London, GB)</i> | 39 |
| 11:30 > | How to perform stress CMR.
<i>N. Bettencourt de Sousa (Porto, PT)</i> | 40 |
| 11:45 > | CMR for oedema and inflammation.
<i>E. Dall'Armellina (Leeds, GB)</i> | 41 |
| 12:00 > | How to study the pericardium and the pericardial diseases.
<i>M. Imazio (Torino, IT)</i> | 42 |
| 12:15 > | How to do parametric mapping.
<i>V. Puntmann (Frankfurt, DE)</i> | 43 |
| 12:30 > | What a clinician needs to know about extracardiac findings.
<i>M. Hamilton (Bristol, GB)</i> | 44 |

12:45 - 13:45

MODERATED POSTERS

Moderated ePoster area

Moderated ePosters session 2: frontiers in viability imaging**Chairperson(s): P. Bandettini (To Be Confirmed, US); T. Lapinskas (Kaunas, LT)****Lunch time Moderated ePoster session:**

Moderated ePosters are on display on the plasma screen of their assigned Moderated Poster station Presentation and discussion moderated by the chairpersons take place between 12:45 13:45

Manganese-enhanced T1 mapping for the assessment of myocardial viability: clinical translation of a novel contrast agent in cardiac MRI	45
<i>N.B. Spath, M.R. Dweck, A.H. Baker, D.E. Newby, S.I. Semple (Edinburgh, GB)</i>	
Optimal timing for cardiovascular magnetic resonance after ST-segment elevation myocardial infarction for effective risk stratification	46
<i>A. G. Pavon, G. Pontone, R. Symons, M. Francone, J. Zalewski, A. Barison, G.D. Aquaro, G. Muscogiuri, O. Muller, A. Baggiano, D. Andreini, P.G. Camici, J. Schwitter, J. Bogaert, P.G. Masci (Lausanne, CH; Milan, Rome and Pisa, IT; Leuven, BE; Krakow, PL)</i>	
Contrast enhanced cine imaging approximates infarct size in acute ST elevation myocardial infarction	47
<i>P. McCartney, C. Berry (Glasgow, GB)</i>	
Quantification of myocardial infarct size and microvascular obstruction using dark-blood late gadolinium enhancement	48
<i>T. Kotecha, A. MartinezNaharro, T. Lambe, R.D. Francis, L.I.Z.A. Chacko, J.M. Brown, D.S. Knight, P.N. Hawkins, J.M. Moon, P.N. Kellman, H. Bulluck, D.S. Hausenloy, R.D. Rakhit, M. Fontana (London and Norwich, GB; Bethesda, US; Singapore, SG)</i>	
Hyper acute changes of myocardial blood flow and its relationship with infarct core	49
<i>M. Alkhalil, A. Borlotti, G. De Maria, L. Gaughran, J. Langrish, A. Lucking, V. Ferreira, R. Kharbanda, A. Banning, K. Channon, R. Choudhury, E. Dall Armellina (Oxford, GB)</i>	
Quantification of microvascular obstruction using semi automated methods	50
<i>P. McCartney, D. Carrick, A. Morgan, C. Berry (Glasgow, GB)</i>	
Regional heterogeneity in the oxygenation reserve of women with syndromex	51
<i>E. Hillier, M. El Harram, S. Hawkins, M. G. Friedrich, L. Pilote (Montreal, CA)</i>	
Cardiac fibrosis and function in primary carnitine deficiency patients evaluated by cardiac magnetic resonance	52
<i>K. Kyhl, J. Rasmussen (Tórshavn, FO)</i>	
Impact of smoking on cardiac magnetic resonance infarct characteristics and clinical outcome in patients with non ST-elevation myocardial infarction	53
<i>H.J. Feistritz, I. Eitel, A. Jobs, S. De WahaThiele, T. Stiermaier, M. AbdelWahab, P. Lurz, S.J. Reinstadler, M. Reindl, G. Klug, B. Metzler, S. Desch, H. Thiele (Leipzig and Lübeck, DE; Innsbruck, AT)</i>	

Afternoon Sessions

LEVEL 1
TRACK

13:45 - 15:15

ADVANCED COURSE

Sala Grande

Advanced course III: post-processing and interpretation**Chairperson(s): A. Hays (Maryland, US); A. Hirsch (Rotterdam, NL)**

- | | | |
|---------|---|----|
| 13:45 > | Late gadolinium enhancement (LGE) quantification in the right ventricle, left ventricle and left atrium.
<i>M.J.W. Gotte (Amsterdam, NL)</i> | 54 |
| 14:00 > | 4D-flow post-processing and clinical interpretation.
<i>S.A. Uribe (Santiago, CL)</i> | 55 |
| 14:15 > | Myocardial deformation: strain and tagging.
<i>A.M. Maceira Gonzalez (Valencia, ES)</i> | 56 |
| 14:30 > | Radiomics in CMR: Extracting more information from clinical images.
<i>K. Lekadir (Barcelona, ES)</i> | 57 |
| 14:45 > | CMR and fractal analysis.
<i>N. Aung (London, GB)</i> | 58 |
| 15:00 > | Machine learning for CMR visualisation, analysis and reporting.
<i>M. Motwani (Manchester, GB)</i> | 59 |

CONGENITAL
TRACK

13:45 - 15:15

ADVANCED COURSE

Sala Darsena

Advanced course congenital I**Chairperson(s): S. BabuNarayan (London, GB); R. Wald (Toronto, CA)**

- | | | |
|---------|--|----|
| 13:45 > | Ventricular function for congenital heart disease (advanced).
<i>B. Burkhardt (Zuerich, CH)</i> | 60 |
| 14:00 > | Flow measurements: from numbers to pathophysiology.
<i>O. Tann (London, GB)</i> | 61 |
| 14:15 > | Myocardial mapping.
<i>H. Grotenhuis (Utrecht, NL)</i> | 62 |
| 14:30 > | Aortic arch anomalies.
<i>F.R. Pluchinotta (San Donato Milanese, IT)</i> | 63 |
| 14:45 > | Pulmonary arteries and veins malformations.
<i>P. Ciliberti (Rome, IT)</i> | 64 |
| 15:00 > | Imaging newborns.
<i>E. Valsangiacomo Buechel (Zurich, CH)</i> | 65 |

CASE
SESSIONS

13:45 - 15:45

TEACHING COURSE

Course Room

Case session for level 2/3 logbooks session 2**Chairperson(s): A.M.G. Almeida (Lisbon, PT); J. Carpenter (Poole, GB); R. Manka (Zurich, CH)**

This session is supported by Circle Cardiovascular Imaging in the form of an educational grant. The scientific programme has not been influenced in any way by its sponsor.

Learning objectives:

- a) Gain experience reviewing cases on workstations.
- b) Learn how to review and analyse stress perfusion cases.
- c) Get an introduction to reporting perfusion CMR.

- | | | |
|---------|---|----|
| 13:45 > | Case session for level 2/3 logbooks.
<i>A.M.G. Almeida (Lisbon, PT); J. Carpenter (Poole, GB); R. Manka (Zurich, CH)</i> | 66 |
|---------|---|----|

THURSDAY 2 MAY

Afternoon Sessions

THURSDAY



MAIN
SESSIONS

16:00 - 17:00

SATELLITE SYMPOSIUM

Sala Grande

Technical advances (Cloud +AI) for a more quantitative and data driven Cardiac MR analysis Sponsored by Arterys

Chairperson(s): C. Bucciarelli-Ducci (Bristol, GB)

- Understand the technical principles of 4D Flow MRI
- Understand the benefits of 4D Flow MRI for aortic and mitral regurgitation quantification in routine clinical practice
- Understand the added value of 4D Flow MRI for complex flow quantification in congenital heart disease (e.g. Tetralogy of Fallot, Transposition of the Great Arteries and Fontan)
- Understand the benefits of Cloud Computing (e.g. Dual Venc acquisitions) and Artificial Intelligence for Cardiac MRI post-processing (e.g. semi-quantitative analysis of perfusion)

16:00 > **Welcome and introduction.**
C. Bucciarelli-Ducci (Bristol,GB)

16:10 > **4D flow MRI - Technical principles and emerging capabilities in CMR analysis.** 67
A. Archid (Paris,FR)

16:25 > **Clinical validation of 4D flow MRI for cardiac valvular disease.** 68
J.F. Paul (Paris,FR)

16:40 > **4D flow MRI - A revolution for congenital heart disease.** 69
F. Raimondi (Paris,FR)

16:55 > **Conclusion.**
C. Bucciarelli-Ducci (Bristol,GB)



MAIN
SESSIONS

16:00 - 17:00

SATELLITE SYMPOSIUM

Sala Darsena

Cutting edge results on CMR for coronary disease Sponsored by Bayer AG / Siemens Healthineers

Chairperson(s): D. Pennell (London, GB)

Educate the audience about the use and value of cardiac Magnetic Resonance Imaging (MRI) for detecting and guiding patient management with Coronary Artery Disease (CAD) by presenting results of the latest clinical trials in this field.

16:00 > **Multicenter trial on myocardial perfusion: the GadaCAD study.** 71
D. Pennell (London, GB)

16:20 > **Stress perfusion imaging in patients with stable CAD: the MR-INFORM trial.** 72
E. Nagel (Frankfurt, DE)

16:40 > **Clinical impact of stress CMR perfusion imaging: the SPINS trial.** 73
O. Simonetti (Colombus, US)



CONGENITAL
TRACK

16:00 - 17:00

ADVANCED COURSE

Course Room

Advanced course congenital II

Chairperson(s): H. Grotenhuis (Utrecht, NL); F.R. Pluchinotta (San Donato Milanese, IT)

16:00 > **Tetralogy of Fallot.** 74
K. Pushparajah (London, GB)

16:15 > **Transposition of the Great Arteries (TGA) after the atrial switch.** 75
K. Wustmann (Bern, CH)

16:30 > **Transposition of the Great Arteries (TGA) after the arterial switch.** 76
I. Valverde Perez (Seville, ES)

16:45 > **Single ventricle.** 77
R. Rathod (Boston, US)



LEVEL 1
TRACK

17:05 - 18:05

SPECIAL EVENT

Sala Grande

Inaugural session

Chairperson(s): S.E. Petersen (London, GB); J.F. Rodriguez Palomares (Barcelona, ES); A.M.G. Almeida (Lisbon, PT); T. Edvardsen (Oslo, NO)

Welcome to your EACVI. 78
T. Edvardsen (Oslo, NO)

Welcome address by the local host. 79
M. Perazzolo Marra (Padova, IT); C. Bucciarelli-Ducci (Bristol, GB)

Update on your CMR section. 80
S.E. Petersen (London, GB)

Ignorance, uncertainty, doubt and failure - Why science is so successful. 81
S. Firestein (New York, US)

Keynote lecture: "A brief history of CMR - and how to deal with uncertainty in medical imaging". 82
S. Plein (Leeds, GB)

Poster Sessions

08:30 - 17:00

POSTER SESSION

Poster area

Clinical case poster session 1

Posters are on display from 08:30 to 17:00. Poster viewing times: 10:00-11:00 and 12:45-13:45.

The road to PPVI in a young Fallot patient with Edwards bioprosthesis <i>M. Pop, C. Suteu, A. Sglimbea (Targu Mures, RO)</i>	P84
Left ventricular pseudoaneurysm with amaurosis fugax as first presentation <i>A. Siama, P. Fountoulakis, A. Tsoukas, A.J. Manolis (Athens, GR)</i>	P85
Multimodality assessment of a complex atrial septal defect: each has an important role to play <i>I. M. Tsay, B.C. Chou, J. Teng, P. Maggiore, S. Moir (Melbourne, AU)</i>	P86
Survival and atypical location of ventricular aneurysms: multimagen studies <i>N.E.Z. Espinola-Zavaleta, G.C.C. Camacho-Camacho, H.Z.G. Zambrano-Guatibonza, A.D.L.T. De La Torre, I.C.J. Carvajal-Juarez, E.A.R. Alexanderson-Rosas, D.O.C. Oregel-Camacho (Mexico City, MX)</i>	P87
From infective endocarditis to aneurysm <i>A.K. Klotzka, M.J. Magdalena Janus, S.Z.R. Szymon Rozmiarek, B.Z. Bartłomiej Zabicki, A.G. Agnieszka Graczyk Szuster, M.P. Malgorzata Pyda, M.L. Maciej Lesiak (Poznan, PL)</i>	P88
Cyanotic adult with atrial septal defect (ASD) is not an equivalent to an Eisenmenger syndrome <i>S. Romieh, M. Gipril, A. Osman, W. Elmozy, A. Abdul Aziz, F. Ramdan, S.H. Nabil, A. Amin (Aswan, EG)</i>	P89
Improved myocardial function following coronary sinus reducer implantation in a patient with refractory angina and heart failure with reduced ejection fraction <i>G. Gallone, L. Baldetti, A. Palmisano, F. Ponticelli, G. Tzanis, A. Colombo, A. Esposito, C. Giustetto, F. Giannini (Turin and Milan, IT)</i>	P90
Unexpected cause of dilated cardiomyopathy: CMR findings <i>N. Ojrzynska, Ł. Mazurkiewicz, B. MiloszWieczorek, A. Sioma, J. Grzybowski (Warsaw, PL)</i>	P91
CMR characteristics as the first selection criterion for surgical treatment in patient with Isolate LV apical hypoplasia <i>I. Skidan Viktoria, A. Avyasov Aleksey, V. Musurivskaya Tatyana (Khabarovsk, RU)</i>	P92
Cardiac magnetic resonance beyond coronariography in spontaneous coronary artery dissection <i>A. Vera Sainz, R. Aguilar, R. Maruri, M. Garcia Guimaraes, F. Rivero, L.J. Jimenez Borreguero, F. Alfonso (Madrid, ES)</i>	P93
The lord of the rings <i>D. Radenkovic, G. Captur, E. Perry, J.C. Moon (London, GB)</i>	P94
Darkblood LGE without additional magnetization preparation reveals right ventricular pathology in a patient with atypical chest pain and elevated troponins <i>C. M. Van De Heyning, R.J. Holtackers, A. Chiribiri (Antwerp, BE; Maastricht, NL; London, GB)</i>	P95
How cardiac magnetic resonance can diagnose a missed infarction <i>A. Tercero Martinez, S. Diaz Lancha, R. Ramos Martinez, M. Villar Garcia, J.C. Gallego Page, J.C.~ Garcia Lopez, M. Barambio Ruiz, M.J. Corbi Pascual (Albacete, ES)</i>	P96
Cardiac magnetic resonance to guide defibrillator lead implantation in a patient with arrhythmogenic right ventricular cardiomyopathy <i>U.D. Breskvar, N. Kajdic, A. Zupan Meznar, B. Antolic, M. Baraga, D. Zizek (Ljubljana, SI)</i>	P97
The value of scar mapping by cardiac magnetic resonance imaging pre ablation for ventricular tachycardia: should an implantable cardioverter defibrillator put you off? <i>A. Seraphim, A. Bhuvu, J. Moon, C. Manisty (London, GB)</i>	P98
Syncopal episodes in patient with muscular dystrophy: do we need multimodality imaging? <i>S. Glaveckaite, D. Palionis, N. Valeviciene (Vilnius, LT)</i>	P99
Atypical form of acute myocardial infarction with tamponade <i>J. Rigueira, T. Rodrigues, I. AguiarRicardo, N. Cunha, R. Placido, F.J. Pinto, A.G. Almeida (Lisbon, PT)</i>	P100
A post-operative compressive conundrum <i>A.T. Abiodun, S. Tyebally, S. Rosmini, A. Seraphim, J. Moon, C.H. Manisty (London, GB)</i>	P101
Myocardial fatty infiltration in asymptomatic Duchenne muscular dystrophy patient. Role of emerging CMR techniques <i>R. Fernandez-Galera, I. Roldan, J. Vizquete, G. Martin, R. Serrats, E. Romero, J. Bertolin, V. Faga, M.M. PerezGil, R. Callizo, A. Cuevas, A. Sorribes, V. Mora (Valencia, ES)</i>	P102
My 20 years-old patient who is an athlete has hypertrophic cardiomyopathy. Does he need and ICD? : integrative diagnosis of exertional Syncope Using CMR <i>S. Gallo, H. Medina, O.M. Perez, S.A. Higuera (Bogota, CO)</i>	P103

Poster Sessions

Double aortic arch accidental finding in a grown-up woman <i>P. V. Egorov, S. N. Volkova, M. A. Lunin, O. N. Dzhioeva, S. I. Varencov, I. I. Zaharova (Moscow, RU)</i>	P104
A sustained VT during CMR scan. Physician does not fear much <i>A. Ruocco, M. De Lazzari, A. Baritussio, G. Rizzon, L. Babuin, C. Lacognata, P. Zucchetta, B.~ Giorgi, E. Quaia, S. Iliceto, M. Perazzolo Marra (Padua, IT)</i>	P105
Reasonable similarities: relatives with biventricular arrhythmogenic cardiomyopathy and mutation in the DSG2 gene. <i>L. Carrillo-Aleman, E. Candela-Sanchez, P. Guedes, R. Moscicki, A. Garcia-Fernandez, E. Feliu (Alicante and Elche, ES)</i>	P106
Prenatal diagnosis of familial biventricular non-compacted cardiomyopathy with later demonstration of a MYH7 gene mutation <i>P. Guedes Ramallo, L. Carrillo Aleman, E. Candela Sanchez, E. Feliu Rey (Elche and Alicante, ES)</i>	P107
The connection between the heart and the gut <i>B. Berlot, I. Harries, M.G.L. Williams, V. De Francesco, K. Mitrousi, C. Lawton, C. Bucciarelli Ducci (Bristol, GB)</i>	P108
4D CMR flow mapping and strain analysis of a muscular left ventricular diverticulum <i>R.T. Khafagy, A. A. Elmogy, S.H. Nabil, A. Soliman, M. Shaaban, M. Gibreel, A. Salama, F. Elkafrawy, S. Tantawy, M. Elnadi, D.O. Labib, W. Elmozy, S. Romeih (Aswan, EG)</i>	P109
Twin CMRs, the same diagnosis? <i>C.~ Alderighi, A. Baritussio, M. De Lazzari, A. Collevicchio, B. Giorgi, E. Quaia, G. Tarantini, T. Berno, L. Babuin, C. Basso, S. Iliceto, M.P. Marra (Padua, IT)</i>	P110
Double chambered left ventricle <i>H. Naderi, C. L'heureux, N. Keenan, P. Moore, J. Sehmi (London, GB)</i>	P111
Arrhythmogenic right ventricular cardiomyopathy and sick sinus syndrome : a potential overlap syndrome <i>M. Subramanian, S. Peravali, H.I.S.H.A.M. Ahamed, N.A.V.I.N. Mathew (Kochi, IN)</i>	P112
Fatty replacement of the myocardium: is not all arrhythmogenic right ventricular cardiomyopathy <i>A. Cecchetto, C. Ciccio, E. Dalla Chiara, C. Dugo, S. Bonapace, L. Lanzoni, G. Carbognin, E. Barbieri, A. Costa (NegrarVerona, IT)</i>	P113
Left ventricle involvement detected by cardiac MRI in arrhythmogenic right ventricular cardiomyopathy: a case series <i>C. Lario, B. Mabritto, M. Bianco, A. Milan, G. Negro, A. Macera, M.R. Conte, S. Cirillo (torino and Orbassano, IT)</i>	P114
Role of cardiovascular magnetic resonance imaging in syncope <i>W. Yassi, A. Demirkiran, R.B. Van Loon (Amsterdam, NL)</i>	P116
Cardiac magnetic resonance imaging to solve the diagnostic dilemma in two cases of MINOCA: different sides of the same coin <i>L. Arcari, L.R. Limite, D. Russo, M. Sclafani, M. Volpe, C. Autore, M.B. Musumeci (Rome, IT)</i>	P117
When coronary angiography is not enough: the role of cardiac magnetic resonance in differential diagnosis of atypical chest pain and left ventricular systolic dysfunction. <i>V. Melita, S. Pica, A. Camporeale, C. Geppert, K. Chow, F. Crea, M. Lombardi (Rome and San Donato Milanese, IT; Erlangen, DE)</i>	P118
Oedema in amyloidosis: more than meets the eye <i>A. Martinez Naharro, T. Kotecha, L. Chacko, J. D. Brown, D. S. Knight, A. Steriotis, P. Kellman, J. D. Gillmore, P. N. Hawkins, M. Fontana (London, GB; Bethesda, US)</i>	P119
Cardio-oncology interactions: yet another face of an ever-growing couple <i>F. Valente, T. Soriano, M. Ojeda, G. Oristrell, A. Roque, V. Pineda, H. Cuellar, J.F. RodriguezPalomares (Barcelona, ES)</i>	P120
General anaesthesia: a stress on the heart? <i>A. Seraphim, A. Bhuva, J. Moon, C. Manisty (London, GB)</i>	P121
Aetiology of right ventricular mass defined by CMRI <i>A. Briosia E Gala, A.D. Dimarco, R. Adam, C. Peebles, P. Haydock, S. Harden, A. Flett (Southampton, GB)</i>	P122
Big mitral annular calcification (Big MAC) Dynamic liquefaction necrosis as a potential source of embolism <i>P. Haaf, V. Hofmann, J. Bremerich, M. Zellweger (Basel, CH)</i>	P123
Multimodal imaging in myocardial hydatid cyst. <i>J. A. Requena Ibanez, P. Hernandez Mateo, M. Luaces Mendez, R. Aguero Olayza, B. Cabeza Martinez, M. Maita Cruz, J. Umana Monzon, E. Jimenez Baeza, J.J. Gomez De Diego, L. Perez De Isla, A. Bustos Garcia De Castro (Ciudad Real, Madrid, Las Palmas De Gran Canaria and Seville, ES; Lima, PE)</i>	P124
A "MASSquerade"; Not your average cardiac mass <i>S. Tyebally, A. Abiodun, S. Rosmini, J. Moon, C. Manisty (London, GB)</i>	P126
Cardiac involvement in Erdheim-Chester disorder, a rare case of right atrial pseudo-tumour <i>L.A. Martinez Marin, R. Eiros, A. Velez, S. Valbuena, R. Dalmau, G. Guzman, M. Moreno, J.L. Lopez-Sendon (Madrid, ES)</i>	P127

Poster Sessions

- Acute on chronic thromboembolic myocardial infarction - thrombus age assessment by multimodality cardiac imaging** P128
P. Haaf, J. Bremerich, K. Appelt, F.P. Stephan, M.J. Zellweger (Basel, CH)
- "Myxoma medusa", an unusual atrial mass: a multimodality imaging approach to the diagnosis** P129
L.M. Madrona-Jimenez, M. Chaparro Munoz, C. Caparros-Escudero, D. Martins De Araujo Romeo, M.J. Valle Caballero, J.M. Barquero Aroca, A. Recio Mayoral, R.J. Hidalgo Urbano (Seville, ES)
- The role of cardiac magnetic resonance in malignant cardiac tumours, a weapon of mass utility.** P130
L.A. Martinez Marin, R. Eiros, A. Velez, S. Valbuena, R. Dalmau, T. Lopez, M. Fernandez Velilla, G. Guzman, M. Moreno, J.L. Lopez-Sendon (Madrid, ES)
- An unusual case of right atrial mass** P131
C.M.F. Strong, J. Abecasis, S. Guerreiro, D. Matos, P. Freitas, A. Ferreira, A. Santos, C. Saraiva, T. Duarte, J.P. Neves, M. Mendes (Lisbon and Setubal, PT)
- Mitral valve blood cyst: case illustration from imaging diagnosis to surgical removal with review of current literature** P132
D. M. F. Van Den Buijs, A.Q. Kolff, M.A.J.M. Huijbregts (Amsterdam, NL)
- A commonly misdiagnosed mass** P133
G. Di Giovine, D. Poggio, M. Grillo, T. Khouri, F. Armienti, C. Cangioti, D. Margonato, A. Mortara (Monza, IT)
- A ticking time bomb in the heart: multiple embolisms of a cardiac tumor.** P134
C. Chong-Nguyen, M. Michon, P. Nataf, N. Ghanem (Eaubonne and Paris, FR)
- A hole in the heart: a unique complication of drug addiction** P135
I. Ben Yaacoub-Kzadri, H. Ben Ahmed, S. Kzadri, H. Baccar (Tunis, TN)
- Endomyocardial fibrosis presented by ventricular tachycardia** P136
M. Hassan Abdelnabi, S. Abd Elsamad, A. Almaghraby, Y. Saleh, S. Elfawal (Alexandria, EG)

Poster Sessions

08:30 - 17:00

POSTER SESSION

Poster area

Poster session 1

Posters are on display from 08:30 to 17:00. Poster viewing times: 10:00-11:00 and 12:45-13:45.

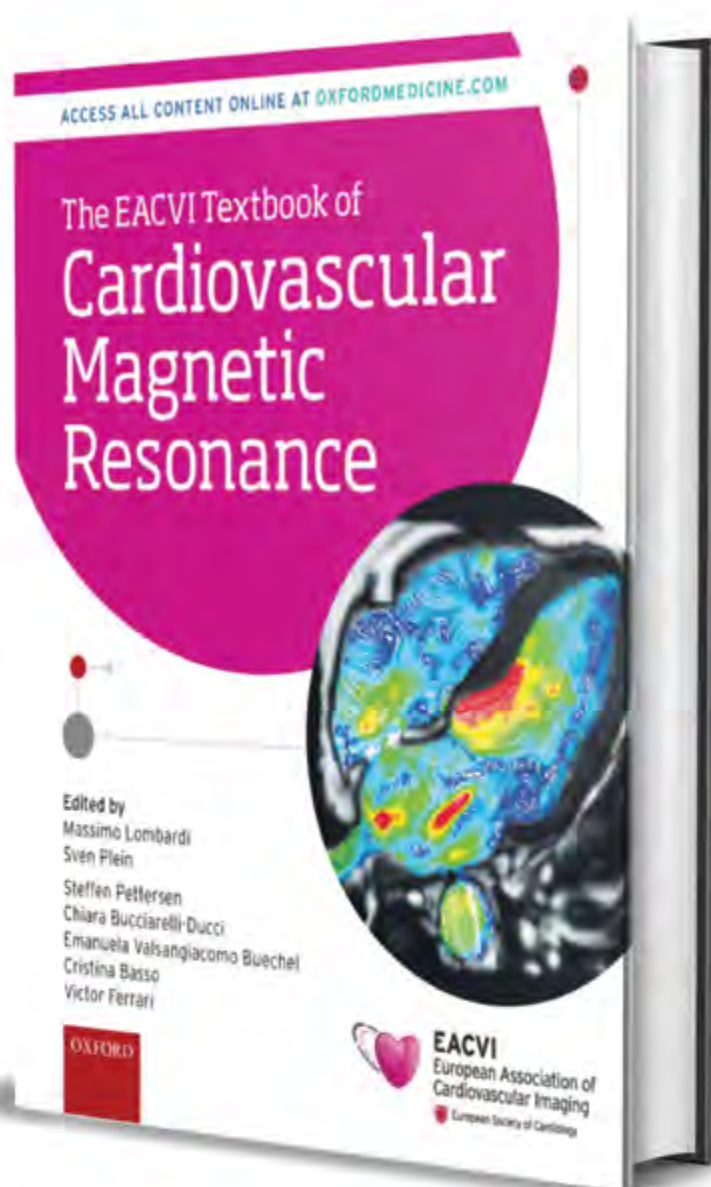
Prognostic value of cardiac magnetic resonance in systemic sclerosis	P137
A. Pepe, A. Meloni, C. Bruni, D. De Marchi, G. Todiere, F. Fulgenzi, Y. Ghebru, S. Guiducci, R. De Caterina, M. Matucci Cerinic, L. Gargani (Pisa, Florence and Chieti, IT)	
Fast-SENC segmental intramyocardial strain quantifies subclinical myocardial dysfunction	P138
M. Montenbruck, S. Kelle, G. Korosoglou, P. Wuelfing, S. Esch, F. Andre, H. Steen (Hamburg, Berlin, Weinheim and Heidelberg, DE)	
Feature tracking by cardiovascular magnetic resonance: left ventricular dysfunction predicts outcome in heart failure with preserved ejection fraction	P139
A. Kammerlander, B. Karner, A. Keil, M. Seithuber, C. Dona, C. Nitsche, F. Duca, D. Beitzke, C. Binder, M. Koschutnik, S. Aschauer, C. Loewe, C. Hengstenberg, D. Bonderman, J. Mascherbauer (Vienna, AT)	
Fast-SENC quantifies right ventricular intramyocardial strain to assess subclinical RV dysfunction	P140
H. Steen, M. Montenbruck, S. Esch, A. Schwarz, S. Kelle, P. Wuelfing, F. Andre, K. Korosoglou (Hamburg, Berlin, Heidelberg and Weinheim, DE)	
Same-day CMR and pre-operative predictive simulation of Fontan pulmonary blood flow	P141
P. Frieberg, P. Liuba, Z. Alsafi, J. Johansson Ramgren, P.-K. Tran, M. Carlsson (Lund, SE)	
Diagnostic performance of computed tomography- and magnetic resonance-derived myocardial stress perfusion assessments for the diagnosis of haemodynamically significant coronary artery disease	P142
M. C. De Knegt, A. Rossi, S.E. Petersen, A. Wragg, M. Westwood, B. Saberwal, M.T. Jensen, F. Pugliese (London, GB)	
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Morning Sessions



08:30 - 09:30

SPECIAL SESSION

Sala Grande

Opening plenary - Quality through evidence and CMR innovation

Chairperson(s): S.E. Petersen (London, GB); J.F. Rodriguez Palomares (Barcelona, ES); T. Edvardsen (Oslo, NO); M. Perazzolo Marra (Padova, IT)

- 08:30 > Welcome address. 193
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J.C. Plana (Houston, US)
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ABSTRACT SESSION

Sala Grande

Young Investigator Award session

Chairperson(s): A.M.G. Almeida (Lisbon, PT); S. Neubauer (Oxford, GB)

Judge(s): L.P. Badano (Padova, IT); C. Bucciarelli-Ducci (Bristol, GB); D. Pennell (London, GB); J. Carr (Chicago, US); M.G. Friedrich (Montreal, CA)

Young Investigators will present their abstract in competition for the EuroCMR 2019 Young Investigator Award Prize.

Results & Winners will be announced and awarded with a diploma during the "Closing Plenary" session on Saturday 4 May at 13:05.

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- 10:20 > Discriminating between exercise induced cardiac remodeling and dilated cardiomyopathy using exercise cardiac MRI 202
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CHECK THE SESSION'S ICONS



Morning Sessions

09:35 - 10:50 DEBATE SESSION Sala Darsena

Pros/cons in ischaemic heart diseases
Joint session with the EACVI Section on Nuclear Cardiology and Cardiac-Computed Tomography

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10:13 >	Positioning of the topic: anatomy of coronary stenosis. <i>A. Gimelli (Pisa, IT)</i>	209
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09:35 - 10:50 SPECIAL SESSION Sala Zorzi

Cardiac Magnetic Resonance imaging in practice.
A look at some clinical interesting and topical applications of CMR

Chairperson(s): A. Fallon (Dublin, IE); T. Coulson (Buckinghamshire, GB)

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09:35 - 10:50 SYMPOSIUM Course Room

Failing better: how do experienced researchers and clinicians manage inevitable failures?

Chairperson(s): S. Firestein (New York, US); S.E. Petersen (London, GB)

How experienced researchers/clinicians manage failure, sometimes to their advantage. In other words, this session aims to help young researchers to develop a healthy attitude towards failure that will allow them to learn rather than resist.

09:35 >	Panel members: <i>H. Arheden (Lund, SE); B. Casadei (Oxford, GB); S. Neubauer (Oxford, GB); F. Rademakers (Leuven, BE); J. Schulz-Menger (Berlin, DE)</i>	219
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Morning Sessions

09:35 - 10:50

CLINICAL CASES

Rapid Fire Room

Clinical case session: solving challenges in daily practice

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10:50 - 11:30

MODERATED POSTERS

Moderated ePoster area

Moderated ePosters session 3: CMR - Deformation imaging

Chairperson(s): G. Guzman (Madrid, ES); A. Baritussio (Padova, IT)

Morning Moderated ePoster session:

Moderated ePosters are on display on the plasma screen of their assigned Moderated Poster station

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Morning Sessions

LEVEL 1
TRACK

11:30 - 12:30

SYMPOSIUM

Sala Grande

Multimodality in valvular heart disease
Joint session with the EACVI Echo section and the CMR section

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- 11:45 > CMR in the evaluation and clinical management of mitral regurgitation. 234
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- 12:00 > Imaging assessment of low flow low gradient aortic stenosis. 235
M. Galderisi (Naples, IT)
- 12:15 > Imaging techniques to improve management in severe tricuspid regurgitation. 236
C. Santoro (Naples, IT)

11:30 - 12:30

SYMPOSIUM

Sala Darsena

Value of CMR in healthcare
Joint session with the LSE Department of Health Policy and the European Heart Academy

Chairperson(s): B.A. Popescu (Bucharest, RO); S.E. Petersen (London, GB)

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S.E. Petersen (London, GB)
- 11:40 > Research designs to demonstrate value of CMR. 238
R. Friebe (London, GB)
- 11:50 > Cost-effectiveness of CMR. 239
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 R. Friebe (London, GB), M. Asaria (London, GB)*

CONGENITAL
TRACK

11:30 - 12:30

SYMPOSIUM

Sala Zorzi

Applications of new techniques in congenital heart disease

Chairperson(s): S. Babu-Narayan (London, GB); P. Beerbaum (Hannover, DE)

- 11:30 > Fetal magnetic resonance imaging not only flow. 241
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SPECIAL
COURSE

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SPECIAL COURSE

Course Room

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Chairperson(s): C. Basso (Padua, IT); M. Perazzolo Marra (Padova, IT)

- 11:30 > Presentation 1. 245
C. Basso (Padua, IT)
- 11:30 > Presentation 2. 246
M. Perazzolo Marra (Padova, IT)

Morning Sessions

11:30 - 12:30

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Rapid Fire Room

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- 11:38 > Impact of a ten-year national Italian networking on cardiac complications in patients with thalassemia major 248
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- 11:47 > Native T1 mapping discriminates microvascular obstruction in the acute phase of reperfused STEMI 249
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- 11:55 > Myocardial extracellular volume in patients with aortic stenosis undergoing valve intervention: a multicentre T1 mapping study 250
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- 12:04 > Predictors of clinical evolution in prehypertrophic Fabry Disease 251
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- 12:12 > Tissue characterization indices and global longitudinal strain derived from early CMR scan 1 year after cardiac transplantation predict all-cause mortality and MACE 252
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12:45 - 13:45

SATELLITE SYMPOSIUM

Sala Grande

The next level of mapping - Quantitative perfusion and electrophysiology
Sponsored by Circle Cardiovascular Imaging

Chairperson(s): D. Pennel (London,GB) - M.G. Friedrich (Montreal,CA)

- 12:45 > Fully quantitative myocardial perfusion - a clinical reality. 254
A. Arai (Bethesda,US)
- 13:00 > How quantitative perfusion affects workflow. 255
M.G. Friedrich (Montreal,CA)
- 13:15 > Expanding role of CMR in identification and treatment of arrhythmic events. 256
M.J.W. Gotte (Amsterdam,NL)
- 13:30 > Automatic detection of arrhythmic substrate - The power of CMR. 257
J. Fernandez-Armenta Pastor (Sevilla,ES)

Afternoon Sessions

14:00 - 15:00 SYMPOSIUM Sala Grande

Multimodality imaging in cardio-oncology
Joint session with the European Society of Cardiac Radiology (ESCR) and the European Association of Nuclear Medicine (EANM)

Chairperson(s): V. Ferreira (Oxford, GB)

- | | | |
|---------|--|-----|
| 14:00 > | Chemotherapy and the heart: what a clinician needs to know from imaging?
<i>J.C. Plana (Houston, US)</i> | 258 |
| 14:15 > | Early detection of cardiac involvement with CMR mapping sequences, is it better than echo?
<i>B. Velthuis (Utrecht, NL)</i> | 259 |
| 14:30 > | What can molecular imaging add to cardio-oncology?
<i>J. Bucerius (Aachen, DE)</i> | 260 |
| 14:45 > | Does Computed Tomography play a role to identify cardiac involvement and to guide therapy?
<i>J. Bremerich (Basel, CH)</i> | 261 |



14:00 - 15:00 CLINICAL CASES Sala Darsena

The best cases from all around the world

Chairperson(s): J. Cavalcante (Minneapolis, US); J. Moon (London, GB)
Judge(s): B.A. Popescu (Bucharest, RO); A.C. Van Rossum (Amsterdam, NL)

Results & Winners of the session will be announced and awarded with a diploma during the "Closing Plenary" session on Saturday 4 May at 13:05.

- | | | |
|---------|--|-----|
| 14:00 > | The evolution of eosinophilic myocarditis
<i>K.M. Hassan, C.G. Kyriakakis, A.F. Doubell, S.D. Zaharie, G.U. Van Zyl, P.G. Herbst (Cape Town, ZA)</i> | 262 |
| 14:12 > | Tertiary syphilis manifested as myocarditis
<i>H. A. Zainal Abidin, C. Arendt, P. De Leuw, H. Zhou, L. Arcari, E. Nagel, V. Puntmann (Sg. Buloh, MY; Frankfurt am Main, DE)</i> | 263 |
| 14:24 > | Spontaneous organizing pericardial hematoma: a time-sensitive imaging enigma
<i>J. M. Tan, L. Franey, W. Abdallah (Grand Rapids, US)</i> | 264 |
| 14:36 > | Loosening the belt with antimicrobials - CMR adds insight.
<i>J.H. Chong, R. Rear, M. Westwood, C. Manisty (London, GB)</i> | 265 |
| 14:48 > | An unusual cause of myocardial mass.
<i>L. Rodriguez Eyra, J.F. Rodriguez Palomares, M.A. Rodriguez, J.I. Dauria, F. Velente (Mar del Plata, AR; Barcelona, ES)</i> | 266 |

14:00 - 15:00 ABSTRACT SESSION Sala Zorzi

Abstract session 1: value of CMR stress perfusion: latest evidence

Chairperson(s): J. Petryka (Warsaw, PL); M. Deac (Lausanne - Epalinges CH)

- | | | |
|---------|---|-----|
| 14:00 > | Myocardial perfusion defects in genotype-positive hypertrophic cardiomyopathy without left ventricular hypertrophy
<i>R.K. Hughes, C. Camaioni, K.D. Knott, E. Quinn, G. Captur, P. Syrris, P. Kellman, P.M. Elliott, S. Mohiddin, H. Xue, L. Lopes, J. Moon (London, GB; Bethesda, US)</i> | 267 |
| 14:12 > | Prognostic value of dipyridamole stress CMR in patients with known or suspected coronary artery disease: a long term follow-up study
<i>A. Pepe, C. Nugara, M. Vaccaro, C. Grigoratos, G. Todiere, A. Barison, D. De Marchi, G. Novo, G. Aquaro, A. Meloni (Pisa, Palermo and Catania, IT)</i> | 268 |
| 14:24 > | Cardiac magnetic resonance for evaluating non-culprit lesions after acute myocardial infarction: a comparison with fractional flow reserve
<i>H. Everaars, N.W. Van Der Hoeven, G.N. Janssens, M.A. Van Leeuwen, R.B. Van Loon, A. Demirkiran, M.B.M. Hofman, R.J. Van Der Geest, P.M. Van De Ven, M.J. Gotte, A.C. Van Rossum, N. Van Royen, R. Nijveldt (Amsterdam, Zwolle, Leiden and Nijmegen, NL)</i> | 269 |
| 14:36 > | Relationship between exercise capacity and LV mechanics in patients with precapillary pulmonary hypertension - a regadenoson hyperemic-stress CMR study
<i>A. Florian, J. Spiesshoefer, M. Bietenbeck, C. Meier, V. Holtstiege, M. Boentert, A. Yilmaz (Muenster, DE)</i> | 270 |
| 14:48 > | Feasibility and prognostic value of vasodilator stress perfusion CMR in elderly patients > 75 years without known CAD
<i>T. Pezel, M. Kinnel, T. Hovasse, P. Garot, T. Untersee, S. Champagne, Y. Louvard, M.C. Morice, F. Sanguinetti, J. Garot (Massy, FR)</i> | 271 |

Afternoon Sessions

SPECIAL
COURSE

14:00 - 15:00

SPECIAL COURSE

Course Room

Special Course 3: myocardial structural dynamics and diffusion tensor CMR**Chairperson(s): S. Nilles-Vallespin (London, GB); P. Kilner (Forest Row, GB)**

- 14:00 > The multi-scale "kinemorphodynamics" of heart muscle. 272
P. Kilner (Forest Row, GB)
- 14:20 > Diffusion tensor CMR challenges and acquisition strategies. 273
S. Nilles-Vallespin (London, GB)
- 14:40 > Diffusion tensor CMR clinical findings and future potential. 274
Z. Khalique (London, GB)

14:00 - 15:00

RAPID FIRE

Rapid Fire Room

Rapid Fire Abstract 2: how CMR can help in congenital heart disease**Chairperson(s): M. Carlsson (Lund, SE); T. Rutz (Lausanne, CH)**

- 14:00 > 4D cardiac magnetic resonance flow imaging in neonates - feasibility and reproducibility 275
A. Vejstrup, K. Iversen, K. Juul, H. Bundgaard, J. Kromann, N. Vejstrup
(Copenhagen and Herlev, DK)
- 14:08 > Non contrast 3D steady-state free-precession magnetic resonance angiography: the more relevant 276
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- 14:17 > Can RV optimised native T1 mapping and ECV add clinical value in repaired tetralogy of Fallot? 277
S. Ghonim, P. D. Gatehouse, G. Giblin, J. Keegan, G. C. Smith, G. C. Mathews, S. Jenkins,
F. Alpendurada, K. Dimopoulos, D. J. Pennell, W. Li, J. C. Moon, M. Gatzoulis,
S. Babu-Narayan (London, GB)
- 14:25 > Atrioventricular coupling before and after pulmonary valve replacement in patients with tetralogy of fallot. 278
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- 14:34 > Neck lymphatic collaterals are associated with prolonged pleural effusion after total cavopulmonary 279
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- 14:42 > Utility of CMR-derived right ventricular longitudinal strain for determining the need for pulmonary valve 280
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- 14:51 > Role of magnetic resonance angiography in the planning of percutaneous closure of patent ductus arteriosus. 281
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Afternoon Sessions

15:00 - 15:45

MODERATED POSTERS

Moderated ePoster area

Moderated ePosters session 4: CMR values and flow

Chairperson(s): J. Mascherbauer (Vienna, AT); M. Bissell (Leeds, GB)

Afternoon Moderated ePoster session:

Moderated ePosters are on display on the plasma screen of their assigned Moderated Poster station

Presentation and discussion moderated by the chairpersons take place between 15:00 - 15:45

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<i>E. Hillier, T. Hafyane, M. G. Friedrich (Montreal, CA)</i>	
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MAIN
SESSIONS

15:45 - 16:30

SYMPOSIUM

Sala Grande

The hidden gems in Venice: new applications of CMR and hybrid imaging

Chairperson(s): H. Verberne (Amsterdam, NL); S. Plein (Leeds, GB)

15:45 >	Diastolic dysfunction with CMR: worth doing it?	289
	<i>G.D. Aquaro (Pisa, IT)</i>	
16:00 >	Clinical indications of hybrid imaging.	290
	<i>D. Neglia (Pisa, IT)</i>	
16:15 >	Positron Emission Tomography (PET) - Magnetic resonance (MR) in atherosclerosis.	291
	<i>T. Leiner (Utrecht, NL)</i>	

LEVEL 1
TRACK

15:45 - 16:30

SYMPOSIUM

Sala Darsena

CMR in aortic diseases.

Joint session with the Working Group on the aorta and peripheral vascular diseases

Chairperson(s): M.L. Muiesan (Brescia, IT); P. Berden (Ljubljana, SI)

15:45 >	Haemodynamics in bicuspid aortic valve: can we explain aortopathy?	292
	<i>J.F. Rodriguez Palomares (Barcelona, ES)</i>	
16:00 >	Aortitis: imaging techniques in diagnosis and follow-up.	293
	<i>R. Mohiaddin (London, GB)</i>	
16:15 >	Multimodality imaging in acute aortic syndromes	294
	<i>C. Hamilton-Craig (Brisbane, AU)</i>	

Afternoon Sessions

MAIN
SESSIONS

15:45 - 16:30

SYMPOSIUM

Sala Zorzi

The nightmare of pericardium and masses: how can CMR help me?**Chairperson(s): S. Bekkers (Maastricht, NL); E. Donal (Rennes, FR)**

- 15:45 > Prognostic implications of late gadolinium enhancement (LGE) in pericardial diseases. 295
A.M.G. Almeida (Lisbon, PT)
- 16:00 > Good news: it is a cardiac pseudotumour. 296
M. Lombardi (San Donato Milanese, IT)
- 16:15 > Performing histology with CMR in cardiac tumours. 297
R. Hinojar Baydes (Madrid, ES)

SPECIAL
COURSE

15:45 - 16:30

SPECIAL COURSE

Course Room

Special Course 4: 3D printing**Chairperson(s): G. Biglino (Bristol, GB); S. Schievano (London, GB)**

This session is supported by Medviso AB in the form of an educational grant. The scientific programme has not been influenced in any way by its sponsor.

The 3D printing course will be divided between a short theoretical introduction (principles of rapid manufacturing, brief notions of image processing, overview of software and printers) and a longer discussion of case studies. The latter will include both adult and paediatric cases and will entail both presentation of the imaging data (CMR or CT) and of the 3D models themselves, which will be passed around to participants for discussion.

The course will be led by Dr Silvia Schievano (UCL Institute of Cardiovascular Science) and Dr Giovanni Biglino (Bristol Heart Institute) both with extensive expertise in using models in clinical settings, including pre-operative planning and communication with patients.

- 15:45 > Principles of rapid manufacturing. 298
G. Biglino (Bristol, GB)
- 15:45 > Introduction to imaging processing. 299
S. Schievano (London, GB)
- 15:45 > Software and printers. 300
G. Biglino (Bristol, GB)
- 15:45 > Discussion of adult and paediatric cases. 301
S. Schievano (London, GB); G. Biglino (Bristol, GB)

15:45 - 16:30

RAPID FIRE

Rapid Fire Room

Rapid Fire Abstract 3: stress CMR: utility in coronary artery disease and beyond**Chairperson(s): P. Masci (London, GB); A. Hirsch (Rotterdam, NL)**

- 15:45 > Redefining assessment of adenosine stress response using CMR perfusion mapping: An alternative to splenic switch off 302
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- 15:54 > Quantitative CMR perfusion mapping to detect microvascular dysfunction in patients without obstructive coronary disease 303
T. Kotecha, A. Martinez-Naharro, C. Little, L.I.Z.A. Chacko, G. Manmathan, J.M. Brown, D.S. Knight, P.N. Hawkins, J.M. Moon, H. Xue, T. Lockie, R.D. Rakhit, P.N. Kellman, N. Patel, M. Fontana (London, GB; Bethesda, US)
- 16:03 > Quantitative perfusion mapping in Fabry disease 304
K. Knott, J.B. Augusto, S. Nordin, R. Kozor, C. Camaioni, H. Xue, R.K. Hughes, C. Manisty, L.A.E. Brown, U. Ramaswami, D. Hughes, P. Kellman, S. Plein, J.C. Moon (London and Leeds, GB; Sydney, AU; Bethesda, US)
- 16:12 > Performance of CAD consortium pre-test probability models in patients with symptoms suggestive of coronary artery disease and a low-intermediate risk profile, a study with myocardial perfusion imaging 305
S. Winther, L. Nissen, J. Westra, L. Frost, N.R. Holm, E.H. Christiansen, H.E. Botker, M. Bottcher (Aarhus, Herning and Silkeborg, DK)
- 16:21 > The diagnostic role of cardiac magnetic resonance imaging when performed as initial test in suspected non-ST elevation myocardial infarction 306
Y.J.M. Van Cauteren, M.W. Smulders, J. Heijman, S.C. Gerretsen, R.A.L.J. Theunissen, A.M.A. Mingels, S.M.J. Van Kuijk, R.J. Kim, H.J.G.M. Crijns, J.E. Wildberger, S.C.A.M. Bekkers (Maastricht, NL; Durham, US)

Afternoon Sessions

16:45 - 18:00

SYMPOSIUM

Sala Grande

Cardiovascular Magnetic Resonance in acute coronary syndromes: luxury or do we need it?
Joint session with the Asian Society of Cardiovascular Imaging (ASCI)
Chairperson(s): C. Bucciarelli-Ducci (Bristol, GB); C. Cheung (Hong Kong, HK)

- 16:45 > CMR to manage PCI strategies in acute myocardial infarction. 307
H. Thiele (Leipzig, DE)
- 17:00 > Pursuing the correct diagnosis in myocardial infarction non-obstructive coronary artery disease (MINOCA) by CMR. 308
I. Eitel (Luebeck, DE)
- 17:15 > Role of CMR for personalised risk stratification in STEMI. 309
A. Arai (Bethesda, US)
- 17:30 > Is there any possible role of CMR in N-STEMI? 310
H. Sakuma (Tsu, JP)
- 17:45 > The role of imaging in women with ischaemic heart disease: improving management and outcomes. 311
W.S. Chan (Hong Kong, HK)



16:45 - 18:00

CLINICAL CASES

Sala Darsena

CMR in tropical heart diseases
Joint session with the Association of the Interamerican Society of Cardiology (ECOSIAC)
Chairperson(s): N. Bettencourt de Sousa (Porto, PT); J. Fernandes (Campinas, BR)

The overall objective of the session is to provide a systematic approach to the evaluation of patients with tropical heart diseases. Also, to review the core of the most common infectious diseases that can involve the heart. Finally, to know the CMR protocols and how to evaluate patients with infectious heart diseases

- 16:45 > Presentation 1. 312
A. Meave (Mexico, MX)
- 16:55 > Presentation 2. 313
E. De La Pena-Almaguer (Monterrey, MX)
- 17:05 > Utility of CMR in a young man with syncope and history of lateral myocardial infarction. 314
H. Medina (Austin, CO)
- 17:15 > Presentation 4. 315
L. De Stefano (To Be Confirmed, AR)
- 17:25 > Presentation 5. 316
R. Baeza (Santiago, CL)
- 17:35 > Presentation 6. 317
A. Cadena (Barranquilla, CO)
- 17:45 > CMR in the imaging of tropical diseases. 318
J. Fernandes (Campinas, BR)

Afternoon Sessions

16:45 - 18:00

ABSTRACT SESSION

Sala Zorzi

Abstract session 2: CMR guiding diagnosis and prognosis in cardiomyopathies

Chairperson(s): E. Dall'Armellina (Leeds, GB); M. Imazio (Torino, IT)

- 16:45 > Myocardial perfusion mapping in cardiac amyloidosis: transformation from a disease of solely infiltration to myocardial ischaemia 319
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- 17:06 > Cardiac magnetic resonance for identifying the substrate of ventricular arrhythmias in patients with normal echocardiography 321
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- 17:17 > Late gadolinium enhancement predicts appropriate defibrillator interventions in nonischaemic dilated cardiomyopathy 322
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- 17:27 > Inflammatory cardiomyopathy in Fabry disease 323
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- 17:38 > Prognostic role of late gadolinium enhancement in patients with low or intermediate HCM SCD risk score: a multicenter study. 324
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SPECIAL COURSE

Course Room

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EuroCMR Quiz: the chase

Chairperson(s): M. Westwood (London, GB); J. Carpenter (Poole, GB)

The programme of the EuroCMR Quiz session will be available on the scientific programme online. Different teams of experts will compete against each other.

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Joint session with the Medical Image Computing and Computer Assisted Intervention (MICCAI)**

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Afternoon Sessions

LEVEL 1
TRACK

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18:05 - 19:05

RAPID FIRE

Rapid Fire Room

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Clinical Case Poster Session

08:30 - 19:00

POSTER SESSION

Poster area

Clinical case poster session 2

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Poster Session

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POSTER SESSION

Poster area

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Poster viewing times: 10:50-11:30 and 15:00-15:45.

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- Categorization of heterotaxy disorders on cardiac magnetic resonance imaging: a single institution experience** P464
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- Evaluation of pulmonary artery stiffness in newly diagnosed adult patients with asthma** P465
S. Baysal (Sanliurfa, TR)

• Saturday 4 May



NEW



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Morning Sessions



MAIN
SESSIONS

08:30 - 09:30

SYMPOSIUM

Sala Grande

Controversies in familial cardiomyopathies

Chairperson(s): R. O' Hanlon (Dublin 14, IE); J. Carpenter (Poole, GB)

- 08:30 > Hypertrophic cardiomyopathy: how can we improve risk stratification beyond classic risk factors. 466
R. O' Hanlon (Dublin 14, IE)
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P. Masci (London, GB)
- 09:00 > Risk stratification in arrhythmogenic cardiomyopathy with RV and LV involvement. 468
A. Baritussio (Padova, IT)
- 09:15 > Left ventricular non-compaction: trait, phenotype or disease. 469
K. Misalski-Jamka (Zabrze, PL)



LEVEL 1
TRACK

08:30 - 09:30

LATE-BREAKING SCIENCE SESSION

Sala Darsena

Late-Breaking Science session: the best looks from the Venice Film Festival: trials and population studies

Chairperson(s): L. Grosse-Wortmann (Toronto, CA); M. Westwood (London, GB)

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- 08:54 > Are legacy pacemaker and defibrillator leads less safe than those classified MRI-conditional? 474
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- 09:06 > Effect of low-dose intracoronary alteplase during primary percutaneous coronary intervention on microvascular obstruction in patients with acute myocardial infarction: a randomized clinical trial. 476
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- 09:18 > Randomised controlled trial of daily remote ischaemic conditioning following acute myocardial infarction: effects on myocardial strain 478
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CHECK THE SESSION'S ICONS



MOBILE APP
INTERACTIVE
SESSION



AWARDS
SESSION



LEVEL 1
TRACK



SPECIAL
COURSE



CASE
SESSIONS



MAIN
SESSIONS



TECHNOLOGIST
TRACK



CONGENITAL
TRACK



MEET THE
EXPERTS

SATURDAY 4 MAY

Morning Sessions



08:30 - 09:30

SPECIAL SESSION

Sala Zorzi

An introduction to the fundamental areas of Cardiac Magnetic Resonance imaging including image optimisation and safety

Chairperson(s): C. Lawton (Bristol, GB); C. Martini (Monticelli Terme, IT)

- | | | |
|---------|--|-----|
| 08:30 > | Cine imaging: movie makers: the science behind cinematography images, and how to adapt the parameters to maximise your movie experience.
<i>O. Poveda (To Be Confirmed, ES)</i> | 480 |
| 08:45 > | Perfusion imaging: stress the patient not the Tech! Essential information on performing perfusion images, from patient set up to planning your images.
<i>M. Barreiro Perez (Salamanca, ES)</i> | 481 |
| 09:00 > | 3T Imaging: artefacts and safety.
<i>K. Parke (Leicester, GB)</i> | 482 |
| 09:15 > | Congenital imaging - who needs 4 chambers anyway! A technologist's survival guide.
<i>V. Orchard (Glasgow, GB)</i> | 483 |



08:30 - 09:30

SPECIAL COURSE

Course Room

Special Course 6: heart diseases with CMR correlations

Chairperson(s): C. Basso (Padua, IT); M. Perazzolo Marra (Padova, IT)

- | | | |
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| 08:30 > | Presentation 1.
<i>C. Basso (Padua, IT)</i> | 484 |
| 08:30 > | Presentation 2.
<i>M. Perazzolo Marra (Padova, IT)</i> | 485 |

08:30 - 09:30

RAPID FIRE

Rapid Fire Room

Rapid Fire Abstract 5: late gadolinium enhancement

Chairperson(s): A. Chiribiri (London, GB); D. Sado (London, GB)

- | | | |
|---------|---|-----|
| 08:30 > | Prevalence and correlates of mid-wall late gadolinium enhancement in patients with ischemic cardiomyopathy
<i>Z. Tsoumani, C. Miller, M. Schmitt, G. Nucifora (Manchester, GB)</i> | 486 |
| 08:38 > | Predictors of CMR confirmed microvascular damage after successfully reperfused STEMI.
<i>A. Vera Sainz, F. De La Cuerda, G. Navarrete, P. Antuna, M.T. Nogales, J. Salamanca, F. Rivero, L.J. Jimenez Borreguero, F. Alfonso, R. Aguilar (Madrid, ES)</i> | 487 |
| 08:47 > | Early versus late T1 infarct core following reperfusion treatment in patients presenting with acute myocardial infarction
<i>M. Alkhalil, A. Borlotti, G. De Maria, L. Gaughran, J. Langrish, A. Lucking, V. Ferreira, R. Kharbada, A. Banning, K. Channon, E. Dall Armellina, R. Choudhury (Oxford, GB)</i> | 488 |
| 08:55 > | Comparison of signal intensity ratio, diagnostic accuracy, transmural and image quality between dark blood lge and bright blood lge in patients with ischemic cardiomyopathy
<i>G. Muscogiuri, M. Gatti, S. Dell'aversana, D. Andreini, A.I. Guaricci, M. Guglielmo, A. Baggiano, S. Mushtaq, E. Conte, A. Annoni, M.E. Mancini, P. Gripari, M. Pepi, G. Pontone (Milan, Turin and Bari, IT)</i> | 489 |
| 09:04 > | Persistently increased inflammatory status in the first days post MI is associated with larger myocardial scar, higher transmural extent and deterioration of ventricular function at 1 month
<i>A. Mester, T. Benedek, M. Ratiu, M. Morariu, A. Benedek, R. Hodas, D. Opincariu, N. Rat, M. Chitu, I. Benedek (Targu-Mures, RO)</i> | 490 |
| 09:12 > | Diagnostic accuracy of single-shot two-dimensional multisegment late gadolinium enhancement in ischemic and nonischemic cardiomyopathy
<i>G. Muscogiuri, M. Gatti, S. Dell'aversana, D. Andreini, A.I. Guaricci, M. Guglielmo, A. Baggiano, S. Mushtaq, E. Conte, A. Formenti, M.E. Mancini, P. Gripari, M.G. Rabbat, M. Pepi, G. Pontone (Milan, Turin and Bari, IT)</i> | 491 |
| 09:21 > | Prevalence and distribution of cardiac fibrosis in patients with atrioventricular block undergoing pacemaker implantation
<i>C. Saunderson, M.F. Paton, J. Gierula, L.A.E. Brown, P.G. Chew, A. Das, T.P. Craven, M. Jain, E. Levell, E. Dall'armellina, K.K. Witte, J.P. Greenwood, S. Plein, P.P. Swoboda (Leeds, GB)</i> | 492 |

SATURDAY 4 MAY

Morning Sessions

09:35 - 10:50 SYMPOSIUM Sala Grande

CMR through evidence and guidelines Joint session with the Society for Cardiovascular Magnetic Resonance (SCMR)

Chairperson(s): A.C. Van Rossum (Amsterdam, NL); M.G. Friedrich (Montreal, CA)

- 09:35 > CMR in acute coronary syndromes: current guidelines. 493
S. Raman (Columbus, US)
- 09:50 > CMR for risk stratification in non-ischaemic cardiomyopathies (HCM, Sarcoid, DCM, Amyloid). 494
R. Jacob (Lancaster, US)
- 10:05 > Clinical recommendations for CMR parametric mapping. 495
M. Salerno (Charlottesville, US)
- 10:20 > How trials in CMR have changed clinical practice. 496
J. Greenwood (Leeds, GB)
- 10:35 > Indications that should be included in new CMR guidelines. 497
J. Schulz-Menger (Berlin, DE)



LEVEL 1
TRACK

09:35 - 10:50 SYMPOSIUM Sala Darsena

The increasing importance of CMR in heart failure

Chairperson(s): M. Cameli (Siena, IT); S. Moharem-Elgamil (Bristol, GB)

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G. Vinco (Verona, IT)
- 09:50 > The role of right ventricular imaging in heart failure: from cause to prognosis. 499
A. Kammerlander (Vienna, AT)
- 10:05 > Parametric mapping in heart failure: too early for clinical routine? 500
F. Ricci (Pescara, IT)
- 10:20 > Pulmonary hypertension and heart failure: how many points go to CMR lab? 501
S. Loizos (Athens, GR)
- 10:35 > Myocardial strain in common clinical heart failure scenario: to do or not to do? 502
T. Lapinskas (Kaunas, LT)

09:35 - 10:50 CLINICAL CASES Sala Zorzi

A potpourri of our best clinical cases

Chairperson(s): P. Bandettini (To Be Confirmed, US); I. carbone (, IT)

Judge(s): E. Donal (Rennes, FR); M. Carlsson (Lund, SE)

Results & Winners of the session will be announced and awarded with a diploma during the "Closing Plenary" session on Saturday 4 May at 13:05.

- 09:35 > Giant septal and anterior post myocardial infarction pseudo-aneurysm: a case report 503
A. Cecchetto, E. Dalla Chiara, C. Dugo, C. Ciccio, A. Chiampan, G. Carbognin, E. Barbieri (Negrar-Verona, IT)
- 09:45 > A comprehensive cardiac magnetic resonance study leading to the diagnosis of a rare hematologic disorder 504
M. Amoroso, G. Vincenti, P. Monney, J. Schwitter, A.G. Pavon (Lausanne, CH)
- 09:56 > Shot through the heart 505
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- 10:07 > The role of cardiovascular magnetic resonance imaging in diagnosis and treatment of vena cava superior syndrome: a clinical case 506
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- 10:17 > Pleuritic chest pain: a diversion maneuver 507
F. Valente, A. Roque, H. Cuellar, N. Pizzi, F. Martinez Valle, A. Evangelista, J.F. Rodriguez Palomares (Barcelona, ES)
- 10:28 > Visualization and quantification of large coronary fistula with 4D flow MRI 508
L. Guirgis, M. Gouton, S. Hascoet, J.F. Paul (Le Plessis Robinson and Paris, FR)
- 10:39 > Idiopathic recurrent myopericarditis: can we keep on talking about idiopathic disease or should we look further? 509
M. Garcia De Yebenes, F.M. Caballeros, A. Huerta, M. De La Torre, M.J. Cuadrado, A. Suarez, A. Hernandez, G. Bastarrika, F.M. Hernandez, E. Refoyo (Madrid, ES)

SATURDAY 4 MAY

Morning Sessions



09:35 - 10:50

SPECIAL COURSE

Course Room

Special Course 7: myocardial deformation

Chairperson(s): F. Rademakers (Leuven, BE); A.M. Maceira Gonzalez (Valencia, ES)

- | | | |
|---------|---|-----|
| 09:35 > | Strain and strain rate: physiological insights.
<i>P. Claus (Leuven, BE)</i> | 510 |
| 09:50 > | Basics, technical principles.
<i>M.J.W. Gotte (Amsterdam, NL)</i> | 511 |
| 10:05 > | Clinical workflow, implementation, post-processing, accuracy and reproducibility.
<i>I. Eitel (Luebeck, DE)</i> | 512 |
| 10:20 > | Ventricular S/SR assessment and derived parameters. Applications & evidence for clinical practice: function and CRT.
<i>F. Valente (Barcelona, ES)</i> | 513 |
| 10:35 > | Emerging applications and future directions: RV and atrial application.
<i>A.M.G. Almeida (Lisbon, PT)</i> | 514 |

09:35 - 11:05

RAPID FIRE

Rapid Fire Room

Rapid Fire Abstract 6: 4D flow and valvular heart disease: can CMR add value?

Chairperson(s): J. Mascherbauer (Vienna, AT); J. Fernandes (Campinas, BR)

- | | | |
|---------|---|-----|
| 09:35 > | Right ventricular dysfunction detected by cardiovascular magnetic resonance is associated with late mortality in severe aortic stenosis
<i>M. Rigolli, T.A. Musa, T.A. Treibel, M. Loudon, V.S. Vassiliou, G. Captur, A. Singh, C. Chin, P. Bijsterveld, L.E. Dobson, S. Pica, T. Malley, J.R.J. Foley, G.R. Law, S.G. Myerson (Oxford, Leeds, London, Leicester, Edinburgh and Lincoln, GB)</i> | 515 |
| 09:43 > | Determinants of exercise capacity and myocardial perfusion reserve in asymptomatic patients with moderate to severe aortic stenosis
<i>A. Singh, R. Zhang, A.M. Marsh, J.P. Greenwood, C. Berry, C.C. Lang, D.K. Dawson, M. Jerosch-Herold, G.P. Mccann (Leicester, Glasgow, Leeds, Dundee and Aberdeen, GB; Boston, US)</i> | 516 |
| 09:51 > | Assessment of aortic valve stenosis using 4D flow MR: comparison to 2D PC MR and TTE
<i>B. Adriaans, J.J.M. Westenberg, Y.J.M. Van Cauteren, S.C.A.M. Bekkers, J.E. Wildberger, S. Schalla (Maastricht and Leiden, NL)</i> | 517 |
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<i>S. Ribeyrolles, J.L. Monin, A. Rohnean, C. Diakov, C. Caussin, A. Sarran, J.F. Paul (Paris, FR)</i> | 518 |
| 10:08 > | 4d flow MR hemodynamic mapping of surgical pericardial valves
<i>F. Sturla, F. Piatti, M. Jaworek, F. Lucherini, S. Siryk, C. Geppert, D. Tresova, F. Pluchinotta, R. Vismara, A. Redaelli, G. Tasca, M. Lombardi (San Donato Milanese, Milan and Lecco, IT; Kiev, UA; Erlangen, DE)</i> | 519 |
| 10:16 > | Thoracic aorta flow by 4D flow CMR is altered in patients presenting partial fusion of two aortic valve leaflets
<i>A. Guala, L. Galian, G. Teixido Tura, A. Ruiz Munoz, C. Granato, F. Valente, K.M. Johnson, O. Wieben, A. Sao Aviles, L. Gutierrez, T. Gonzalez-Alujas, A. Evangelista, J.F. Rodriguez-Palomares (Barcelona, ES; Madison, US)</i> | 520 |
| 10:25 > | Post-processing three-dimensional flow: how reliable is software from different vendors?
<i>B.E.U. Burkhardt, J. Geiger, F.M. Callaghan, E.R. Valsangiacomo Buechel, C.J. Kellenberger (Zurich, CH)</i> | 521 |
| 10:33 > | CMR quantification of mitral regurgitation is more reliable than PISA
<i>S. Militaru, K. Hami, L. Houard, A. Pasquet, D. Vancraeynest, A.C. Pouleur, J.L. Vanoverschelde, B.L. Gerber (Brussels, BE)</i> | 522 |
| 10:41 > | 4D flow CMR for diastolic function assessment in cardiac amyloidosis
<i>S. Pica, F. Piatti, P. Milani, R. Mussinelli, A. Foli, M. Basset, A. Camporeale, C. Geppert, D. Giese, K. Chow, S. Perlini, G. Merlini, G. Palladini, M. Lombardi (Milan, San Donato Milanese and Pavia, IT; Erlangen, DE)</i> | 523 |

Morning Sessions

10:50 - 11:50

MODERATED POSTERS

Moderated ePoster area

Moderated ePosters session 5: tissue characterisation in non-ischaemic heart disease

Chairperson(s): V. Ferreira (Oxford, GB); R. Hinojar Baydes (Madrid, ES)

Morning Moderated ePoster session:

Moderated ePosters are on display on the plasma screen of their assigned Moderated Poster station

Presentation and discussion moderated by the chairpersons take place between 10:50 - 11:50

Genotypic groups as risk factor for cardiac MR abnormalities and complications in thalassemia major	524
<i>A. Pepe, A. Meloni, S. Salvadori, A. Vallone, S. Renne, G. Peritore, P. Preziosi, A. Riva, M. Missere, P.P. Bitti, V. Spadola, V. Positano, L. Pistoia (Pisa, Catania, Lamezia Terme, Palermo, Rome, Taranto, Campobasso, Nuoro and Ragusa, IT)</i>	
Cardiac magnetic resonance detects early cardiac involvement in HIV patients: oedema and inflammation, which may be reversible with therapy	525
<i>K. D. Menacho Medina, A. Seraphim, S. Ramirez, L. Falcon, J. Alave, C. Banda, F. Mejia, A. Putri, D. Salazar, V. Culotta, C. Torlascco, J. Menacho, A. Herrey, M. Walker, J. Moon (London, GB; Lima and Huaraz, PE)</i>	
Cardiac involvement of Wilsons disease. A myocardial strain and imaging study.	526
<i>S.Q. Quick, U. Reuner, C.H. Hempe, M.C. Weidauer, F.M. Heidrich, K. Ibrahim, K.M. Sveric, A. Linke, U. Speiser (Dresden, DE)</i>	
Myocardial fibrosis is a predictor of atrial fibrillation in dilated cardiomyopathy- role of cardiovascular magnetic resonance	527
<i>A. M. G. Almeida, J. Rigueira, R. Placido, L. B. Rosario, I. Aguiar Ricardo, P. Campos, C. David, F. J. Pinto (Lisbon, PT)</i>	
Left ventricular dysfunction, not myocardial injury, drives use of cardioprotective medications in acute myocarditis: insights from machine learning	528
<i>A. Cardona, X. Ning, S. Smart, P. Chandrasekaran, C. Wei, B. McCarthy, D. Lee, S.V. Raman (Columbus and Chicago, US)</i>	
Relationship between ventricular mechanics and fibro-fatty replacement on cardiac magnetic resonance in arrhythmogenic cardiomyopathy.	529
<i>M. Perazzolo Marra, C. Zanetti, R. Bariani, A. Cipriani, G. Rizzon, B. Giorgi, C. Lacognata, E. Quaia, C. Aliberti, C. Basso, D. Corrado, I. Rigato, B. Bauce, F. Tona, S. Iliceto (Padua, IT)</i>	
Anthracycline-treated cancer survivors with normal LVEF have significant perturbations of longitudinal strain and myocardial tissue composition	530
<i>I. B. Harries, M. Curran, K. Mitrousi, M. Williams, B. Berlot, V. De Francesco, C. Lawton, C. Bucciarelli-Ducci (Bristol, GB)</i>	
Myocardial fibrosis is associated with adverse left ventricular remodelling and heart failure hospitalisations in anthracycline-treated cancer survivors at 5 years follow-up	531
<i>I. B. Harries, G. Biglino, B. Berlot, M. Williams, V. De Francesco, K. Mitrousi, C. Lawton, J. Plana, C. Bucciarelli-Ducci (Bristol, GB; Houston, US)</i>	
Quantitative late gadolinium enhancement for the prediction of ventricular arrhythmias in patients with hypertrophic cardiomyopathy	532
<i>L. Monti, E. Indolfi, B. Nardi, S. Moscatelli, A. Rossi (Rozzano, IT)</i>	



LEVEL 1
TRACK

12:00 - 13:00

SYMPOSIUM

Sala Grande

Athletes and arrhythmias: the role of CMR in risk assessment Session on behalf of the Working group on CMR of the Italian Society of Cardiology.

Chairperson(s): A. Pelliccia (Rome, IT); V. Maestrini (Roma, IT)

12:00 > The nightmare of left ventricular scar.	533
<i>M. Perazzolo Marra (Padova, IT)</i>	
12:15 > Hypertrophy and hypertrophic cardiomyopathy.	534
<i>V. Maestrini (Roma, IT)</i>	
12:30 > Right ventricular remodelling in athletes, when enough is enough.	535
<i>M. Papadakis (London, GB)</i>	
12:45 > Subclinical coronary artery beyond CMR: role of Computed Tomography.	536
<i>G. Pontone (Milan, IT)</i>	

SATURDAY 4 MAY

Morning Sessions



12:00 - 13:00

SYMPOSIUM

Sala Darsena

How can CMR imaging improve outcome in congenital cardiology

Chairperson(s): E. Valsangiacomo Buechel (Zurich, CH); R. Rathod (Boston, US)

- | | | |
|---------|--|-----|
| 12:00 > | Tetralogy of Fallot.
<i>G. Guzman (Madrid, ES)</i> | 537 |
| 12:15 > | Single ventricle.
<i>R. Rathod (Boston, US)</i> | 538 |
| 12:30 > | The systemic right ventricle.
<i>S. Babu-Narayan (London, GB)</i> | 539 |
| 12:45 > | CMR exercise testing for unraveling pathophysiology.
<i>J. Bogaert (Leuven, BE)</i> | 540 |

12:00 - 13:00

ABSTRACT SESSION

Sala Zorzi

Abstract session 4: latest advances in CMR technology and safety

Chairperson(s): A. Codreanu (Luxembourg, LU); R. Boubertakh (London, GB)

- | | | |
|---------|--|-----|
| 12:12 > | Longitudinal changes in diffusion tensor imaging parameters following acute ST-elevation myocardial infarction
<i>A. Das, C. Kelly, I. Teh, C. T. Stoeck, S. Kozerke, L. A.E. Brown, C. E.D. Saunderson, T. Craven, P. P. Swoboda, E. Levelt, J. P. Greenwood, S. Plein, J. E. Schneider, E. Dallarmellina (Leeds, GB; Zurich, CH)</i> | 542 |
| 12:24 > | A machine-learning CMR approach to extract disease features and automate pulmonary arterial hypertension diagnosis
<i>A. J. Swift, H. Lu, P. Garg, J. Taylor, P. Metherall, S. Zhou, C. Johns, R.A. Condliffe, A. Lawrie, J.M. Wild, D.G. Kiely (Sheffield, GB)</i> | 543 |
| 12:36 > | The safety of cardiac magnetic resonance imaging in patients with implantable cardiac devices compatible and noncompatible with MRI
<i>S. Rozmiarek, J. Rajewska-Tabor, A. Klotzka, M. Janus, A. Siniawski, M. Pyda (Poznan, PL)</i> | 544 |
| 12:48 > | ¹⁸ F-sodium fluoride positron emission tomography-magnetic resonance in valvular and coronary artery disease; a validation study with positron emission tomography-computerised tomograph
<i>J. Andrews, G. Macnaught, P. Robson, A. Moss, M. Doris, T. Pawade, P. Adamson, Z. Fayad, C. Lucatelli, D.E. Newby, M. Dweck (Edinburgh, GB; New York, US)</i> | 545 |



12:00 - 13:00

SPECIAL COURSE

Course Room

Special Course 8: how to read CMR for extra cardiac findings

Chairperson(s): C. Peebles (Southampton, GB); M. Schmitt (Lymm, GB)

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|---------|---|-----|
| 12:00 > | Introduction to the prevalence and significance of extra-cardiac findings on CMR.
<i>M. Schmitt (Lymm, GB)</i> | 546 |
| 12:20 > | General approach to the reporting extra cardiac findings.
<i>C. Peebles (Southampton, GB)</i> | 547 |
| 12:30 > | How to interpret common organ specific findings in the Lungs, Skeletal system, liver, kidneys, breast. Case based interactive discussion.
<i>K.A.G. Vedwan (Southampton, GB); C. Peebles (Southampton, GB)</i> | 548 |

SATURDAY

SATURDAY 4 MAY

Morning Sessions

12:00 - 13:00

RAPID FIRE

Rapid Fire Room

Rapid Fire Abstract 7: cardiomyopathy

Chairperson(s): S. Prasad (London, GB); V. Ferreira (Oxford, GB)

- | | | |
|---------|---|-----|
| 12:00 > | High prevalence of intracardiac thrombi in cardiac amyloidosis
<i>A. Martinez Naharro, T. Kotecha, E. Gonzalez-Lopez, A. Corovic, S. Anderson, L. Chacko, J. Brown, D.S. Knight, A.J. Baksi, J.C. Moon, P. Kellman, P. Garcia-Pavia, J. Gillmore, P. Hawkins, M. Fontana (London, GB; Madrid, ES; Bethesda, US)</i> | 549 |
| 12:08 > | Determinants and prognostic value of cardiac magnetic resonance imaging derived infarct characteristics in non-STelevation myocardial infarction
<i>H.-J. Feistritz, I. Eitel, A. Jobs, S. De Waha-Thiele, R. Meyer-Saraei, A. Freund, T. Stiermaier, M. Abdel-Wahab, P. Lurz, S.J. Reinstadler, M. Reindl, G. Klug, B. Metzler, S. Desch, H. Thiele (Leipzig and Lübeck, DE; Innsbruck, AT)</i> | 550 |
| 12:17 > | Trabecular complexity as a subclinical structural alteration in fabry cardiomyopathy: a cardiac magnetic resonance study
<i>A. Camporeale, F. Moroni, D. Lazzaroni, S. Garibaldi, S. Pica, K. Chow, P. Camici, M. Lombardi (San Donato Milanese, Milan and Parma, IT; Erlangen, DE)</i> | 551 |
| 12:25 > | Imaging predictors of systemic embolisms in left ventricular noncompaction
<i>G. Casas, G. Oristrell, F. Valente, J. Limeres, L. Gutierrez, G. Teixido, L. Galian, C.H. Granato, V. Pineda, M.T. Gonzalez-Alujas, A. Evangelista, I. Ferreira, J.F. Rodriguez-Palomares (Barcelona, ES)</i> | 552 |
| 12:34 > | Prognostic value of non-ischemic ring-like left ventricular scar pattern in patients with apparently idiopathic ventricular arrhythmias: a CMR imaging study
<i>D. Muser, P. Santangeli, S. Castro, R. Casado Arroyo, S. Maeda, D. Benhayon, I. Liuba, J. Liang, M. Sadek, A. Chahal, S. Magnani, F. Garcia, F. Marchlinski, J. Selvanayagam, G. Nucifora (Philadelphia, Miami and New York, US; Brussels, BE; Tokyo, JP; Linköping, SE; Ottawa, CA; Adelaide, AU; Manchester, GB)</i> | 553 |
| 12:42 > | Ethnic differences in the phenotypic expression of HCM on CMR
<i>K. Prakash, N. Bunce, L. Anderson, T. He, M. Tome, M. Papadakis, J.C. Kaski, S. Sharma (London, GB)</i> | 554 |
| 12:51 > | Occurrence of ventricular tachyarrhythmias and progression of cardiomyopathy in patients with muscular dystrophy - a CMR-based follow-up study
<i>A. Florian, M. Bietenbeck, C. Meier, V. Holtstiege, G. Chatzantonis, A. Yilmaz (Muenster, DE)</i> | 555 |



LEVEL 1
TRACK

13:05 - 14:30

SPECIAL EVENT

Sala Grande

Closing plenary: what is in the crystal ball of CMR: from Venice to Mars

Chairperson(s): S.E. Petersen (London, GB); B.L.M. Gerber (Woluwe-St. Lambert, BE)

- | | |
|--|-----|
| CMR imaging of myocardial fibers: do we need it?
<i>D. Pennell (London, GB)</i> | 556 |
| Interventional CMR: myths and facts.
<i>R. Razavi (London, GB)</i> | 557 |
| MR fingerprinting: is it ready for prime time?
<i>V. Ferrari (Phila., US)</i> | 558 |
| Big data and artificial intelligence.
<i>T. Leiner (Utrecht, NL)</i> | 559 |
| Best Abstracts / cases awards.
<i>A.M.G. Almeida (Lisbon, PT); J.F. Rodriguez Palomares (Barcelona, ES)</i> | 560 |
| Announcement of EACVI 2020.
<i>C. Bucciarelli-Ducci (Bristol, GB)</i> | 561 |
| Closing remarks.
<i>S.E. Petersen (London, GB)</i> | 562 |

Clinical Case Poster Session

08:30 - 13:00

POSTER SESSION

Poster area

Clinical case poster session 3

Posters are on display from 08:30 to 13:00.

Poster viewing time: 10:50-11:50.

A rare case of sparkling myocardium D.A. Lorenzatti, M.T. Caralt, S. Montserrat Ortego, K. Duran Fernandez, S. Prat Gonzalez, J.T. Ortiz, A. Doltra, R.J. Perea Palazon (Barcelona, ES)	P563
Intravital pulmonary trunk aneurysm with dissection - 5 years multimodality (echo, CT, CMR) follow up P. Goscinia, J. Jedrzychowska-Baraniak, A. Barczyszyn, M. Florczyk (Szczecin and Otwock, PL)	P564
Multi-modality imaging of pericardial masses: a case of metastatic melanoma H. Cronin, P. Mceneaney, D. Kerins (Cork, IE)	P565
Chagas cardiomyopathy: what CMR can reveal A. Peix, A. Perez, K. Padron, Y. Pena, L.L. Bencomo, A. Martinez, L.O. Cabrera, R. Perez, C. Oro (Havana, CU)	P566
A case report of normal angiography in a patient with acute chest pain -take a second look S. Ponorac, A. Dolinsek, P. Berden (Ljubljana, SI)	P567
An unusual cause of myocardial infarction N. P. D. Cunha, J. Rigueira, T. Rodrigues, I. Aguiar-Ricardo, I. Sousa, P. Campos, F. J. Pinto, A. G. Almeida (Lisbon, PT)	P568
CMR-assessment in patient with myocardial injury. J. A. Requena Ibanez, A. Jurado Roman, E. Jimenez Baeza, J. Umana Monzon, R. Aguero Otayza, Y. M. Maita Cruz, B. Cabeza Martinez, P. Hernandez Mateo, M. Luaces Mendez, J. J. Gomez De Diego, L. Perez De Isla, A. Bustos Garcia De Castro, I. Martin Lores, M. A. Rienda Moreno (Ciudad Real, Seville, Las Palmas De Gran Canaria and Madrid, ES; Lima, PE)	P569
Extreme non-viability following late presentation myocardial infarction H.O. Savage, H. Hamid, R. Barbagallo, J. Dungu (Basildon, GB)	P570
Going beyond coronariography, CMR in subacute myocardial infarction: a must for clinical decisions A. Velez Salas, R. Eiros Bachiller, L.A. Martinez Marin, L. Martin Polo, I. Miguelsanz, A. Rivas Perez, L. Rodriguez Sotelo, J.M. Garcia De Veas, R. Dalmau Gonzalez-Gallarza, M.I. Pinilla Fernandez, G. Guzman Martinez, S.C. Valbuena Lopez, M. Moreno Yanguela, J.L. Lopez-Sendon Hentschel (Madrid, ES)	P571
Characterization of microvascular injury after acute ST elevation myocardial infarction A. Demirkiran, Q. Kolff, M. Van Leeuwen, R. Van Loon, A. Van Rossum, N. Van Royen, R. Nijveldt (Amsterdam, Zwolle and Nijmegen, NL; Oranjestad, AN)	P572
Detection of progressive hypertrophy and apical aneurysm formation in symptomatic apical hypertrophic cardiomyopathy J. W. Malcolmson, S. E. Petersen, M. B. Dhinoja, S. A. Mohiddin (London, GB)	P573
Diagnosis of uhl anomaly in infancy, role of CMR A. Soliman, W. Elmozy, S. Romeih, R. Khafagy, A. Elmogy, S.H. Nabil, M. Shaaban, M. Gibreel, A. Salama, F. Elkafrawy (Aswan, EG)	P574
All's well that ends well D. Radenkovic, J. Augusto, J.C. Moon (London, GB)	P575
15 minutes after Gadolinium two diagnoses appear E. Stephenson, N. Sekhri, O.P. Guttmann, K. Savvatis, C. O'mahony, A.S. Herrey, S.A. Mohiddin (London, GB)	P576
Biventricular non compaction plus Ebstein-like anomaly: a turn of the screw M. Abellas Sequeiros, M. Pascual Izco, R. Hinojar Baydes, M.A. Fernandez Mendez, A. Garcia De Vicente, A. Lorente Ros, J.M. Vieitez Florez, A. Garcia Martin, A. Gonzalez Gomez, J.L. Zamorano Gomez, C. Fernandez-Golfin Loban (Madrid, ES)	P577
Dark blood imaging: shedding light on myocardial disease J. Brown, L. Chako, A. Martinez-Naharro, T. Kotecha, A. Steriotis, H. Xue, P. Kellman, D.S. Knight, M. Fontana (London, GB; Bethesda, US)	P578
The accordion heart: cardiovascular magnetic resonance diagnosis A. Soufiani, O. Berroho, J. Raoui, R. Fagouri, S. Bouhali, Z. Idrissi, N. Bendagha, R. Fellat, R. Fellat, N. El Haitem, J.E. Srairi (Rabat, MA)	P579

Clinical Case Poster Session

- Frequent ventricular extrasystoles in woman with suspected peripartum cardiomyopathy history. There must be something else at play: The role of CMR.** P580
J. A. Requena Ibanez, J. J. Gomez De Diego, R. Agüero Otayza, M. Maita Cruz, E. Jimenez Baeza, J. Umana Monzon, B. Cabeza Martinez, L. Perez De Isla, M. Luaces Mendez, P. Hernandez Mateo, A. Bustos Garcia De Castro, I. Martin Lores (Ciudad Real, Madrid, Seville and Las Palmas De Gran Canaria, ES; Lima, PE)
- Hypertrophic cardiomyopathy, myocardial bridging and tako-tsubo syndrome: on the trail of the culprit.** P581
G. Uccello, V. Cammalleri, M. Stelitano, A. Tavernese, F. Romeo (Rome, IT)
- Different roles of coronary CTA and CMR in a young patient with chest pain.** P582
N. Ceschia, G. Pontecoroli, A. Migliorini, S. Pradella, R. Marcucci, N. Marchionni, R. Valenti, N. Carrabba (Florence, IT)
- A classical dilemma - to be or not to be constriction - solved by CMR** P583
A.C. Guta, A.I. Nicula, D.N. Radu, G. Olaru-Lego, A. Calin, L.P. Predescu, B. Radulescu, B.A. Popescu, R. Enache (Bucharest, RO)
- An unusual cause of pericarditic chest pain** P584
C. Nikolaidou, R.S. Wijesurendra, C. Baker, S.G. Myerson (Oxford, GB)
- Intramural haemangioma of the interventricular septum in a patient with strong family history of sudden cardiac death.** P585
A. Piccoli, E. Pomiato, G. Golia, G. Destro, G. Cacici, D. Cenzi, S. Armani, A. Variola, R. Malago', F. Ribichini (Verona, IT)
- An unusual phenocopy of hypertrophic cardiomyopathy: a case report.** P586
S. Moscatelli, B. Nardi, E. Indolfi, F. Fazzari, O. Montini, L. Coppini, L. Monti (Genoa, Rozzano and Monza, IT)
- Pulmonary artery sarcoma: an insidious tumor** P587
S. Antit, S. Chenik, I. Boussabeh, S. Thameur, L. Zakhama, S. Benyoussef (Marsa, TN)
- Foie gras in the right ventricle** P588
~ James, D. Waterhouse, R. O'hanlon (Dublin, IE)
- A not so simple pericarditis** P589
V. Spadotto, G. Zuin, E. Mosconi, A. Cutolo, E. Grolla, G. Ossena, V. Cutaia, M. Silvano, F. Ronco, F. Caprioglio, F. Rigo (Mestre-Venice, IT)
- Broken heart** P590
P. Guedes Ramallo, L. Carrillo Aleman, E. Candela Sanchez, E. Feliu Rey (Elche and Alicante, ES)
- Congenital left ventricular diverticulum- an innocent bystander in a patient with hereditary hemorrhagic telangiectasia** P591
D.-N. Radu, A.C. Guta, A. Florian, L. Predescu, B.A. Popescu, R. Enache (Bucharest, RO; Munster, DE)
- The all times missed diagnosis; arteriovenous malformation** P592
L. Sallam (alexandria, EG)

Poster Sessions

08:30 - 13:00

POSTER SESSION

Poster area

Poster session 3

Posters are on display from 08:30 to 13:00.

Poster viewing time: 10:50-11:50.

- Hypereosinophilic carditis (HEC): a cmr-based case series from a quaternary cardiology centre** P593
A.M.A. Akhtar, K. Patel, A. Chahal, M. Akhtar, A. Nay, K. Fung, N. Sekhri, T. Treibel, M. Westwood, C. Davies, M. Khanji, C. Manisty, M. Lorenzini, J. Moon, S. Petersen (London, GB)
- Real-world clinical CMR: 1-year diagnosis and survival data from a busy tertiary centre serving the Essex region in the UK** P594
P. Chaudhury, M. Aung, H.O. Savage, R. Barbagallo, C. Southgate, L. Pickford, A. Hardie, L. Hearn, A. Meredith, D. Adams, V. Hindmarsh, E. Barden, S. Gedela, J. Dungu (Basildon, GB)
- Hybrid magnetic resonance imaging / positron emission tomography in aortic stenosis: feasibility and initial experience** P595
R. Everett, G. Macnaught, N. Spath, M. Doris, J. Andrews, C. Munoz, M. Fontana, P. Robson, R. Botnar, S. Semple, C. Prieto, D. Newby, M. Dweck (Edinburgh and London, GB; New York, US)
- Types of isolated and ASD associated partial anomalous pulmonary venous drainage (PAPVD) determined by CMR imaging** P596
B. Al-Mogheer, S. Hatipoglu Akpınar, G. Houshmand, B. Uygur, G. Giblin, C. Izgi (London, GB; Istanbul, TR)
- Correlation between arterial stiffness using oscillometry and cardiovascular magnetic resonance in a population with heart failure with preserved ejection fraction (HFpEF)** P598
L. Athithan, P. Kanagala, A. Singh, G.S. Gulsin, M.P.M. Graham-Brown, J. Mcadam, A. Marsh, K. Parke, J. Wormleighton, J.R. Arnold, I.B. Squire, L.L. Ng, G.P. Mccann (Leicester, GB)
- Relationship between coronary artery calcium and hyperaemic myocardial blood flow in asymptomatic adults with type 2 diabetes** P599
G.S. Gulsin, L. Athithan, K.S. Parke, J.V. Wormleighton, A. Singh, J.R. Arnold, H. Xue, P. Kellman, A. Deshpande, G.P. Mccann (Leicester, GB; Bethesda, US)
- Left ventricle volumes and function assessment with CRM 4D FLOW imaging** P600
M. Guglielmo, A. Baggiano, G. Muscogiuri, A.I. Guaricci, D. Andreini, S. Mushtaq, E. Conte, G. Bonalumi, M. Zanobini, F. Alamanni, M. Pepi, G. Pontone (Milan and Bari, IT)
- Hypertrophic cardiomyopathy or athlete's heart?** P601
T. Podlesnikar, M. Baraga, R. Zbacnik, T. Ravnikar (Ljubljana and Izola, SI)
- Quantitative assessment of left ventricular function and deformation in Duchenne and Becker muscular dystrophy patients** P603
R. Panovsky, M. Pesl, J. Machal, T. Holecek, V. Feitova, L. Mrazova, L. Masarova, V. Kincl, E. Peslova (Brno, CZ)
- Reproducibility of CMR feature tracking in assessing left atrial strain in aortic stenosis** P604
A. Alfuhied, S. Elfawal, J. Wormleighton, K. Parke, G. Mccann, A. Singh (Leicester, GB)
- Left ventricular diastolic function studied with magnetic resonance imaging: a systematic review of techniques and relation to established measures of diastolic function** P605
A.S. Bojer, M.H. Soerensen, P. Gaede, S. Myerson, P.L. Madsen (Slagelse and Herlev, DK; Oxford, GB)
- Arrhythmias in repaired pediatric and adolescent fallot tetralogy, correlation with cardiac MRI parameters** P606
G. Hussein, F. Mostafa, S. Emam, M. Abdelraof, H. Atalla, S. Saraya, M. Onsi (Cairo, EG)
- Bi-ventricular remodeling after ASD closure in adult patients using CMR volumetric assessment and strain analysis** P607
F. Elkafrawy, A. Asaad, S. Abo Elenin, A. Allam, A. Elafifi, M. Shehata, S. Romeih (Aswan and Alexandria, EG)
- Myocardial deformation by cardiac magnetic resonance tissue-tracking and transthoracic 2D echocardiography in hypertrophic cardiomyopathy** P608
R.A. Guerreiro, A. Toste, R. Pereira, H. Marques, A. Ferreira, N. Cardim, L. Mendes, F. Machado (Evora and Lisbon, PT)
- Feature tracking cardiac magnetic resonance as a prognostic tool in successfully revascularized patients with acute myocardial infarction** P609
M. Shaaban, S. Tantawy, F. Elkafrawy, A. Salama, M. Gibreel, A. Elmogy, R. Khafagy, A. Soliman, S.H. Nabil, A. Kharabesh, S. Romeih, D. Labib, W. Elmozy (Aswan, EG)
- Novel strain parameters to predict the prognosis of non-ischemic dilated cardiomyopathy using cardiac magnetic resonance tissue tracking analysis** P610
J. Pan, C.J. Gao, J.Y. Hang, M. Wei, J.B. Li, Q. Wan, Y.J. Tao, H. Wu, Z.L. Xia, Y.J. Gao (Shanghai, CN)
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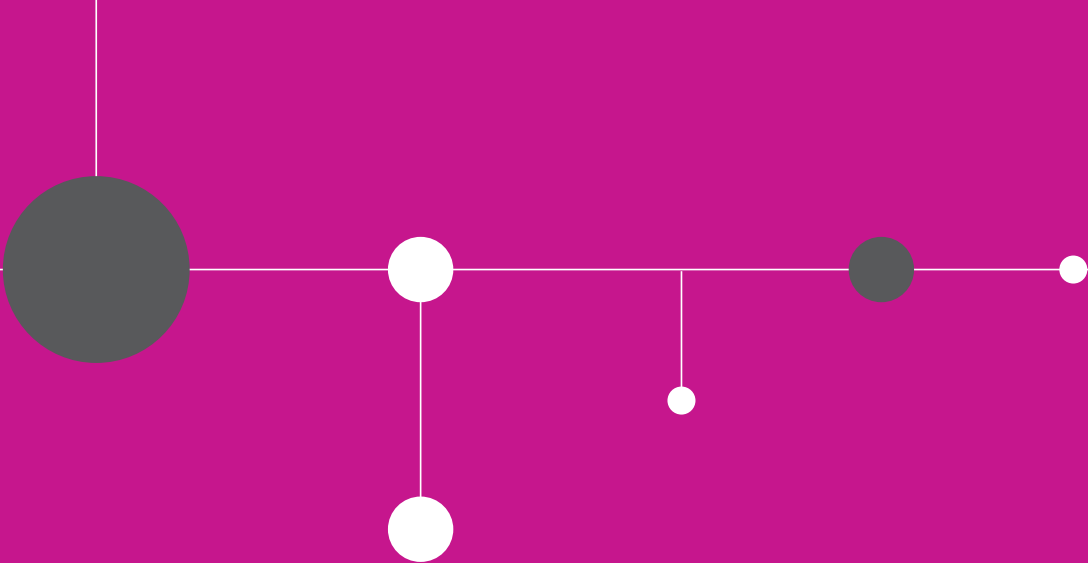
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