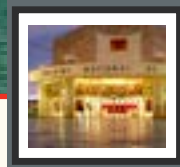
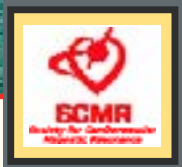


FINAL PROGRAM

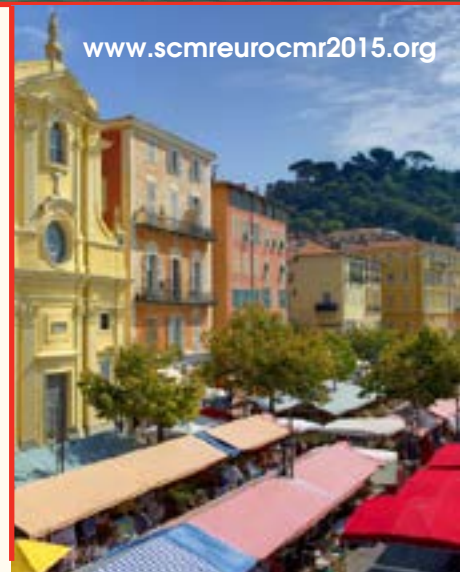


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SCMR/EuroCMR Joint Scientific Sessions

Sharing Global CMR Experience & Innovation
February 4-7, 2015 • Nice, France



Nice Acropolis Convention Centre

SCHEDULE AT A GLANCE

WEDNESDAY, FEBRUARY 4, 2015						
9:00 am - 6:00 pm	SCMR/ISMRM Joint Workshop "Myocardial Tissue Characterization with MR Relaxometry: Principles and Emerging Methods" <i>CALLIOPE</i>					
THURSDAY, FEBRUARY 5, 2015						
8:00 am - 2:00 pm	SCMR/ISMRM Joint Workshop (continued) <i>CALLIOPE</i>	CMR for Physicians: Pre-conference Course <i>ERATE/URANIE</i>	Congenital/Pediatric CMR: Pre-conference Course <i>THALIE</i>	Clinical Trials Workshop <i>CLIO</i>	Interventional CMR Workshop <i>EURTERPE</i>	Board Meetings
2:30 pm - 4:15 pm	Opening Plenary Session - CMR's Global Impact on Cardiovascular Health: What Have We Achieved and What are the Game Changers? Keynote Lecture - Valentin Fuster <i>APOLLON</i>					
4:30 pm - 5:50 pm	Invited Lecture Session 1 Cardiomyopathy Assessment by T1/T2 Mapping in Clinical Practice <i>APOLLON</i>	Oral Abstract Session 1 <i>CLIO/THALIE</i>	Case Review 1 Cardiac Masses: Correlating Imaging with Pathology <i>HERMES</i>	Oral Abstract Session 2 <i>ERATE/URANIE</i>	Exhibits/Posters (authors present 6pm - 7pm) <i>RHODES AREA</i>	
6:00 pm - 7:00 pm	Welcome Reception (Wine/Cheese); Posters/Exhibits					
FRIDAY, FEBRUARY 6, 2015						
7:30 am - 8:30 am	Physics for Physicians 1 <i>APOLLON</i>	Cardiology for Non-Clinicians 1 <i>CLIO/THALIE</i>	Case Review 2 The Patient is Referred for Work-up of Arrhythmia <i>HERMES</i>	How to publish in EHJCI and JCMR <i>ERATE/URANIE</i>	Committee Meetings <i>TBD</i>	
8:40 am - 10:00 am	Invited Lecture Session 2 The RV Under Stress: CMR of the Pressure/Volume Overloaded RV <i>APOLLON</i>	Oral Abstract Session 3 (ECA Basic Science) <i>CLIO/THALIE</i>	Case Review 3 The Patient is Referred for Assessment of Ischemia and Viability <i>HERMES</i>	Oral Abstract Session 4 <i>ERATE/URANIE</i>	Walking Poster Session (Clinical) <i>RHODES AREA</i>	Technologist Track <i>CALLIOPE</i>
10:00 am - 10:30 am	Refreshment Break/Exhibits/Posters (Exhibit Hall open from 8:00 am - 7:00 pm; Exhibits staffed from 10:00 am - 4:30 pm)					
10:40 am - 12:00 pm	Invited Lecture Session 3 Interventional CMR <i>APOLLON</i>	Oral Abstract Session 5 (ECA Clinical) <i>CLIO/THALIE</i>	Case Review 4 CMR In Congenital and Pediatric Patients I <i>HERMES</i>	Invited Lecture Session 4 CMR of Heart Transplant Complications <i>ERATE/URANIE</i>	Walking Poster Session (Congenital) <i>RHODES AREA</i>	Technologist Track <i>CALLIOPE</i>
12:00 pm - 12:30 pm	SCMR Business Meeting and EACVI Section CMR Business Meeting (2 separate rooms) - <i>TBD</i>					
12:30 pm - 1:30 pm	Moderated Oral Poster Competition Session 1/Lunch/Exhibits/Posters - <i>RHODES AREA</i>					
1:30 pm - 2:00 pm	CMR Technology Update - <i>APOLLON</i>					
2:10 pm - 3:30 pm	Invited Lecture Session 5 Updates in Vascular Imaging <i>APOLLON</i>	Oral Abstract Session 6 <i>CLIO/THALIE</i>	Case Review 5 The Patient is Referred for Assessment of Cardiac Chamber Size, Function, and Morphology <i>HERMES</i>	Oral Abstract Session 7 (ECA Translational) <i>ERATE/URANIE</i>	Walking Poster Session (Basic) <i>RHODES AREA</i>	Technologist Track <i>CALLIOPE</i>
3:40 pm - 4:10 pm	Refreshment Break/Exhibits/Posters - Rhodes Area					
4:10 pm - 5:30 pm	Invited Lecture Session 6 CMR in Unusual Pathologies from Around the World (with ASCI) <i>APOLLON</i>	Oral Abstract Session 8 <i>CLIO/THALIE</i>	Case Review 6 The Patient is Referred for Work-up of Cardiomyopathy <i>HERMES</i>	Invited Lecture Session 7 CMR of Molecular Changes <i>ERATE/URANIE</i>	Walking Poster Session (Translational) <i>RHODES AREA</i>	Technologist Track <i>CALLIOPE</i>
5:40 pm - 7:00 pm	Invited Lecture Session 8 4D PC MRI - Towards Clinical Utility? <i>APOLLON</i>	Oral Abstract Session 9 <i>CLIO/THALIE</i>	Oral Abstract Session 10 <i>HERMES</i>	Oral Abstract Session 11 <i>ERATE/URANIE</i>	Walking Poster Session (Basic) <i>RHODES AREA</i>	
SATURDAY, FEBRUARY 7, 2015						
7:30 am - 8:30 am	Physics for Physicians 2 <i>APOLLON</i>	Cardiology for Non-Clinicians 2 <i>CLIO/THALIE</i>	Case Review 7 Potpourri Case Session - <i>HERMES</i>	TBD	Committee Meetings	
8:40 am - 10:00 am	Invited Lecture Session 9 Imaging the Ischemic Heart <i>APOLLON</i>	Oral Abstract Session 12 <i>CLIO/THALIE</i>	Case Review 8 CMR In Congenital and Pediatric Patients II - <i>HERMES</i>	Invited Lecture Session 10 Multimodality Imaging (with ESCR) <i>ERATE/URANIE</i>	Walking Poster Session (Translational) <i>RHODES AREA</i>	Technologist Track <i>CALLIOPE</i>
10:00 am - 10:30 am	Refreshment Break/Exhibits/Posters (Exhibit Hall open from 8:00 am - 7:00 pm; Exhibits staffed from 10:00 am - 4:30 pm) - <i>RHODES AREA</i>					
10:40 am - 12:00 pm	Invited Lecture Session 11 Too Small, Too Thick and Too Big: CMR of the Left Heart and Aorta in Congenital Heart Disease <i>APOLLON</i>	Oral Abstract Session 13 <i>CLIO/THALIE</i>	Case Review 9 Best Cases of the Web <i>HERMES</i>	Oral Abstract Session 14 <i>ERATE/URANIE</i>	Walking Poster Session (Clinical) <i>RHODES AREA</i>	Technologist Track <i>CALLIOPE</i>
12:00 pm - 1:00 pm	Moderated Oral Poster Competition Session 2/Lunch/Exhibits/Posters - Rhodes Area					
1:10 pm - 2:30 pm	Invited Lecture Session 12 CMR of Arrhythmia and Ablation - <i>APOLLON</i>	Oral Abstract Session 15 - <i>CLIO/THALIE</i>	Oral Abstract Session 16 <i>HERMES</i>	Invited Lecture Session 13 Assessing the Hematology/Oncology Patient <i>ERATE/URANIE</i>	Walking Poster Session (Basic) <i>RHODES AREA</i>	Technologist Track <i>CALLIOPE</i>
2:40 pm - 4:00 pm	Invited Lecture Session 14 Aortic Valve Disease and TAVR - <i>APOLLON</i>	Oral Abstract Session 17 <i>CLIO/THALIE</i>	Case Review 10 World Cup Case Competition <i>HERMES</i>	Invited Lecture Session 15 Small Animal CMR <i>ERATE/URANIE</i>	Walking Poster Session (Congenital) <i>RHODES AREA</i>	
4:15 pm - 5:30 pm	Closing Plenary Session - CMR's Impact on Global Cardiovascular Health: Latest progress and looking forward 2014 SCMR Gold Medal Award Winner Lecture - Warren Manning <i>APOLLON</i>					
5:30 pm - 6:00 pm	Awards Ceremony - Apollon Auditorium					
6:00 pm - 7:00 pm	Awards Reception - Muses Foyer					

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MEDAL AWARDEES:

2014 AWARDEE

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2013 AWARDEE

Stefan Neubauer, MD

2012 AWARDEE

Dudley Pennell, MD

2011 AWARDEES

Charles Higgins, MD

Gerald Pohost, MD



2015 GOLD MEDAL AWARDS

The Board of Trustees of the Society for Cardiovascular Magnetic Resonance (SCMR) is pleased to announce that the Society's 2015 Gold Medal Awards will be presented to Christopher M. Kramer, MD, Raymond J. Kim, MD and Robert M. Judd, PhD on February 7, 2015 during the SCMR/EuroCMR Joint Scientific Sessions in Nice, France. The award is presented annually by the SCMR for outstanding achievement in the field of Cardiovascular Magnetic Resonance (CMR) and for exemplary service to the Society. Drs. Kramer, Kim and Judd have excelled in these areas throughout their careers.



Christopher M. Kramer, MD



Raymond J. Kim, MD



Robert M. Judd, PhD

Dr. Christopher Kramer, Ruth C. Heede Professor of Cardiology and Professor of Radiology at the University of Virginia Health System, has been a focused, devoted and strong advocate of CMR throughout his entire career. He provided more than a decade of strong leadership to our Society, including serving as its President in 2009-2010. Before that, he served as the Program Chair from 2004-06, and as the Chair for the Task Force on Standardized Protocols, leading the publication of the document that has been incredibly important at setting standards for how clinical CMR is performed around the world. Perhaps his most significant contribution to the SCMR has been his representation of the Society in the cardiology community and other societies. He has been the primary national advocate to have the SCMR take its proper equal place among the 4 major imaging societies (echo, nuclear, CT) in the greater cardiovascular medicine community; this effort included fostering the recognition of CMR within the American College of Cardiology by serving as Chair of the Imaging Council and the CMR Task Force for COCATS, as well as Vice-Chair of the Appropriate Use Criteria Task Force. Dr. Kramer has also been a distinguished leader in the scientific advancement and expansion of the clinical applications of CMR. He made outstanding contributions to a wide range of topics, including post-MI left ventricular remodeling, myocardial viability, quantitative myocardial perfusion and hypertrophic cardiomyopathy. He is currently Co-PI of the HCMR Trial, a multicenter, international, NHLBI-sponsored effort that is expected to increase our understanding of hypertrophic cardiomyopathy, as well as to elevate CMR's diagnostic and prognostic role. Christopher Kramer has also been at the forefront of training, mentoring a large number of CMR clinician researchers through an NIH/NIBIB Training Grant he has successfully held since 2005. Many of his trainees have gone on to establish highly productive and widely recognized CMR centers of their own. Dr. Kramer has given many years of highly distinguished

and extraordinary service to the field of Cardiovascular Magnetic Resonance and to the Society – and will no doubt continue to do so.

Also receiving the SCMR Gold Medal Award in 2015 are **Raymond J. Kim, MD**, and **Robert M. Judd, PhD**, Professors of Medicine and Radiology, and Co-Directors of the Cardiac MRI Center at the Duke University Medical Center. While Drs. Kim and Judd are each receiving this highest recognition by the SCMR based on their individual merits, the exceptional scientific achievements that have resulted from their longstanding partnership exemplifies the power of the physician scientist and basic scientist pairing to advance the field of medicine. Together, Judd and Kim led the development and validation of the Late Gadolinium Enhancement (LGE) technique; this landmark contribution had a transformative effect upon the field of CMR as it provided direct, in vivo visualization of myocardial necrosis and fibrosis with a resolution and clarity never seen before. Their body of scientific work surrounding this technique ranges from exquisite validation in animal models to the demonstration of its value in guiding therapy; this includes some of the most important and highly cited publications in the field of medical imaging. Their efforts have resulted in the clinical use of CMR in patients with a range of diseases going beyond myocardial infarction to include many forms of non-ischemic cardiomyopathies. Late Gadolinium Enhancement is viewed by many as the most unique and practically useful of any CMR techniques and its development and validation stands as scientific and clinical translational research of the highest order; based on this work alone, Drs. Kim and Judd are highly deserving of the SCMR Gold Medal Award.

Their positive influence on the field of CMR and the SCMR, however, goes beyond this single important contribution. Dr. Kim has served SCMR in a variety of roles: on the Board of Trustees from 2002-2006, as Membership Committee Chair during the same period, and on the Strategic Planning Committee from 2005-2006. He was a member of the SCMR Scientific Program Committee in 2007 and 2008, and has chaired numerous sessions at the Annual Scientific Sessions. Dr. Kim has also played an important role in the development of SCMR guidelines for training in CMR in 2007, as a key author in the task force on standardization of CMR protocols in 2007 and 2013, and on the committee that focused on post-processing in CMR in 2013. He served on the JCMR editorial board from 2001-2007. He has also served the field through his participation in the development of training guidelines and appropriateness criteria for CMR at the American College of Cardiology. Dr. Kim is a highly successful mentor of trainees and students, many of whom have gone on to establish productive CMR programs around the world. These highly accomplished individuals are part of the legacy created by Dr. Raymond J. Kim.

From his earliest days Dr. Judd has had a profound interest in, and has made his career studying, the application of MRI for the evaluation of cardiac disease. His studies into the mechanisms and kinetics of contrast enhancement of myocardial infarction laid the groundwork for the subsequent clinical investigations and rapid translation of the LGE technique into widespread clinical practice. Dr. Judd's more recent efforts to develop a web-based image viewing and distribution system have resulted in an important tool not only in the clinical practice of CMR, but also as a means to enable multi-center research collaboration and education. The SCMR has also benefited from Dr. Judd's participation on the Scientific Program Committee, and as chair and invited lecturer at numerous sessions of the annual meeting. He served on the Editorial Board of the JCMR and was an Assistant Editor from 2004-2007. Dr. Judd has also mentored numerous trainees throughout his career, and has served as an advocate for CMR through his many invited lectures and contributions to the literature. Dr. Robert M. Judd is a scientist of the highest order whose career has been entirely devoted to CMR. His clarity of thought and his warm relationships with others have led to successful collaborations that have had a profound impact on the field of CMR that continues to this day.

The SCMR is honored to recognize these three outstanding individuals for their invaluable contributions to CMR and to the Society. Each has contributed in their own way, but all have made an indelible mark on the field deserving of the highest recognition.



GET THE 2015 SCMR/ EuroCMR MEETING APP!

The CMR 2015 meeting app will serve as a useful resource while you are in Nice, France attending the SCMR/EuroCMR Joint Scientific Sessions. The app will contain pertinent information about each educational session, abstract details, an up-to-date schedule of events, exhibitor information, speaker handouts, important conference alerts, and much more!



Use this QR Code
to get the app!

THE GOALS OF THE SCMR/EUROCMR JOINT SCIENTIFIC SESSIONS ARE TO:

- Deliver state of the art information on the science of CMR imaging and spectroscopy
- Provide a forum for the presentation of new information on CMR
- Compare and contrast CMR methods with other cardiovascular imaging approaches

AT THE CONCLUSION OF THE JOINT SCIENTIFIC SESSIONS, PARTICIPANTS SHOULD BE BETTER ABLE TO:

Upon completion of this educational activity, the participant should be better able to:

- Plan, perform and analyze CMR examinations;
- Plan and conduct appropriately designed clinical trials;
- Apply the principles of MR physics relevant to image quality, data reliability and patient safety.

CONTINUING MEDICAL EDUCATION CREDIT INFORMATION

SCIENTIFIC SESSIONS

The event "2015 SCMR/ Euro CMR Joint Scientific Sessions" is accredited by the European Board for Accreditation in Cardiology (EBAC) for 23.7 hours of External CME credits. Each participant should claim only those hours of credit that have actually been spent in the educational activity. EBAC works according to the quality standards of the European Accreditation Council for Continuing Medical Education (EACCME), which is an institution of the European Union of Medical Specialists (UEMS).

EACCME credits are recognized in Europe and North America. EACCME credits can be exchanged for their national equivalent by contacting the respective National CME authority. EACCME credits are recognized by the American Medical Association (AMA) towards the Physician's Recognition Award (AMA). SCMR will assist its members in applying to the AMA for equivalent AMA PRA Category 1 credit(s)™.

Participants will be awarded CME credits by EBAC for the attendance at Scientific Sessions from Thursday, February 5, 2015 to Saturday, February 7, 2015.

Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Other Healthcare Professionals who participate in this CME activity may submit their Statements of Attendance to their appropriate accrediting organizations or state boards for consideration of credit. The participant is responsible for determining whether this activity meets the requirements for acceptable continuing education.

TECHNOLOGIST WORKSHOP

This activity has been approved for credit by the American Society of Radiologic Technology (ASRT) for a maximum of 10.75 CE credits.

Each technologist should claim only those hours of credit actually spent in this activity

GENERAL INFORMATION

ADMISSION

Conference name badges are required for admission to all activities related to the SCMR/EuroCMR Joint Scientific Sessions, including the exhibit hall.

REGISTRATION HOURS

The Registration Desk is located in the Agora 1 Foyer. The Registration Desk will be open and staffed during the following hours:

Wednesday	February 4	7:15 AM - 6:30 PM
Thursday	February 5	7:15 AM - 6:30 PM
Friday	February 6	7:15 AM - 6:30 PM
Saturday	February 7	7:15 AM - 6:00 PM

DISCLOSURE STATEMENT

It is the policy of the University European Accreditation Council for Continuing Medical Education - Institute of the UEMS to insure balance, independence, objectivity and scientific rigor in all of its sponsored educational activities. All participating speakers and moderators, course directors, and planning committee members are required to disclose to the program audience any financial relationships related to the subject matter of this program. Relationships of spouse/partner with proprietary entities producing healthcare goods or services should be disclosed if they are of a nature that may influence the objectivity of the individual in a position to control the content of the CME activity. Disclosure information is reviewed in advance in order to manage and resolve any possible conflicts of interest. Specific faculty disclosure information for each speaker, course director, and planning committee member will be shared with the audience prior to the speaker's presentation.

EXHIBITS

Educational and informational exhibits will be available in the Rhodes Area during the Scientific Sessions. Exhibiting company representatives will be available to answer your questions about their products and services. Please visit the exhibits and thank the representatives for their support. The complete list of exhibits can be found on pages 63-65.

Thursday	February 5	4:00 PM - 7:00 PM
Friday	February 6	8:00 AM - 6:30 PM
Saturday	February 7	8:00 AM - 4:00 PM



MOBILE DEVICES

As a courtesy to the speakers and your fellow attendees, please switch your mobile device(s) to silent while attending sessions.

PHOTOGRAPHY

Any photography, filming, taping, recording or reproduction in any medium including via the use of tripod-based equipment of any of the programs and/or posters presented at the SCMR/EuroCMR Joint Scientific Sessions without the express written consent of the Society for Cardiovascular Magnetic Resonance is strictly prohibited. Exceptions to this policy include non-flash photography and audiotape recording - using hand-held equipment for strictly personal use, which are permitted if not disruptive.

SPEAKER READY ROOM

The Program Committee is committed to providing attendees cutting edge technology and coordinated presentations at the Scientific Sessions. To be fully prepared for your session, each presenter is requested to visit the Speaker Ready Room at least 24 hours prior to your presentation. The Speaker Ready Room is located in the Hermes Lounge and will be open the following days and times:

Wednesday	February 4	7:15 AM - 6:30 PM
Thursday	February 5	7:15 AM - 6:30 PM
Friday	February 6	7:15 AM - 6:30 PM
Saturday	February 7	7:15 AM - 5:00 PM

SOCIAL MEDIA

Continue the online conversation this year on Twitter with hashtag #CMRNice. Share your thoughts about the conference and see what everyone is saying!

EVALUATIONS

At the conclusion of the SCMR/EuroCMR Joint Scientific Sessions, you will receive an invitation to complete the meeting survey. Please take the time to complete this survey as it provides very important feedback for future programming. Thank you, in advance, for completing the evaluation...your opinion and feedback matter!

ACKNOWLEDGEMENTS

The Society for Cardiovascular Magnetic Resonance gratefully acknowledges the support of these scientific sessions and SCMR's objectives from our industry supporters:

Siemens Healthcare

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PRE-CONFERENCE COURSES

Thursday, February 5, 2015

8:00 AM – 2:00 PM CLINICAL TRIALS WORKSHOP (*MUSES AREA - CLIO*)

Moderators: John P. Greenwood, MB.ChB, PhD, MRCP (Leeds University)
Alex Pitcher, MRCP (Oxford University)

At the conclusion of this workshop, participants will be better able to:

- Appreciate strengths and limitations of evidence derived from CMR clinical trials
- Discuss the different uses of CMR in clinical trials
- Understand concepts of cost-effectiveness analysis related to cardiac imaging

- 8:00 AM Welcome
Steffen E. Petersen, MD, DPhil, MPH (Queen Mary, University of London)
- 8:05 AM *CMR in Clinical Trials: Opportunities and Challenges*
Christopher H. Kramer, MD (University of Virginia Health System)
- 8:25 AM *Established CMR Markers for Clinical Trials - Performance and Impact*
Holger Thiele, MD (University of Leipzig, Heart Center)
- 8:45 AM *The Industry Perspective on CMR Clinical Trials*
Claudia Bacher-Stier, MD (Bayer)
- 9:05 AM *Challenges of a Multi-centre CMR Trial and When to Go Single Centre*
Eike Nagel, MD, PhD, FACC, FESC (King's College London)
- 9:25 AM *Standards for Core Lab Evaluation and When to Use One*
Matthias G. Friedrich, MD (Montreal Heart Institute)
- 9:45 AM *The Randomised Trial Design for Imaging Studies*
Colin Berry, MD (University of Glasgow)

10:05 AM – 10:30 AM REFRESHMENT BREAK

- 10:30 AM *A Simple Structure for Designing a Clinical Trial (PICOT-D)*
Alex Pitcher, MRCP (Oxford University)
- 10:50 AM *Ensuring Proper Randomisation and Blinding*
Tim Clayton, PhD (London School of Hygiene & Tropical Medicine)
- 11:10 AM *How to Approach Sample Size and Power Calculations and Ways of Dealing with Missing Data*
Tim Clayton, PhD (London School of Hygiene & Tropical Medicine)
- 11:30 AM *Challenges for Large Scale Datasets in CMR: Possible Solutions*
Matthias G. Friedrich, MD (Montreal Heart Institute)
- 11:50 AM *Applying to Use Large Scale CMR Databases and Registries*
Filip Zemrak, MD, MRCP (Queen Mary, University of London)

12:00 PM – 12:50 PM LUNCH (ON OWN)

- 12:50 PM *Developing New CMR Biomarkers and Surrogate Endpoints*
Valentina Puntmann, MD, PhD, MRCP (King's College London)
- 1:10 PM *Comparative Effectiveness Research*
John P. Greenwood, MB.ChB, PhD, MRCP (Leeds University)
- 1:30 PM *Interpreting and Using Cost-effectiveness Analysis*
Mohammed Y. Khanji, MB BCh, MRCP (Queen Mary, University of London)
- 1:50 PM *The SCMR Clinical Trials Committee, How It Can Help*
John P. Greenwood, MB.ChB, PhD, MRCP (Leeds University)

PRE-CONFERENCE COURSES

8:00 AM – 2:00 PM **CMR FOR PHYSICIANS PRE-CONFERENCE COURSE** (*ERATO URANIE*)

8:00 AM – 10:00 AM **Session 1 – Physics / Basics (Part 1)**

Moderator: Chiara Bucciarelli-Ducci, MD, PhD (Bristol Heart Institute)

At the conclusion of this workshop, participants will be better able to:

- Understand the basic CMR sequences
- Cope with artefacts and know how to perform CMR in patients with pacemakers and other devices
- Use CMR to guide the differential diagnosis based on patients' clinical presentation

8:00 AM *Basic Physics*
Michael Salerno, MD, PhD (University of Virginia Health System)

8:20 AM *Bright Blood and Black Blood Sequences*
Anthony H. Aletras, PhD (Lund University Hospital)

8:40 AM *How to Perform High Quality Delayed Enhancement Imaging*
Patricia Bandettini, MD (Bethesda, Maryland)

9:00 AM *How to Assess Valvular Disease*
Jens Vogel-Claussen, MD (Hannover Medical School)

9:20 AM *How to Deal with Artefacts*
Peter Kellman, PhD (National Institutes of Health)

9:40 AM *How to Scan Pacemaker and Devices*
Francesco Santini, MD (University Hospital Basel)

10:00 AM – 10:20 AM **REFRESHMENT BREAK**

10:20 AM – 12:00 PM **Session 2 – Physics / Basics (Part 2) and Clinical Scenarios (Part 1)**

Moderator: Nadine Kawel-Boehm, MD (University of Basel Hospital)

10:20 AM *How to Measure Regional and Global Function*
Lars Grosse-Wortmann, MD (The Hospital for Sick Children)

10:40 AM *Choosing CMR in a Multi Modality Imaging Climate*
Bernhard Gerber, MD (Cliniques St. Luc UCL)

11:00 AM *CMR in Acute Chest Pain*
Chiara Bucciarelli-Ducci, MD, PhD (Bristol Heart Institute)

11:20 AM *CMR In Chronic Chest Pain*
Robert W.W. Biederman, MD (Allegheny General Hospital)

11:40 AM *CMR in Patients with Arrhythmia*
Dana Peters, PhD (Yale University)

12:00 PM – 12:45 PM **LUNCH (ON OWN)**

12:45 PM – 2:00 PM **Session 3 – Clinical Scenarios (Part 2) and Clinical Quiz**

Moderator: Kevin Steel, DO (San Antonio Military Medical Center)

12:45 PM *CMR in Patients with LVH on Echo*
Rory O'Hanlon, MD (Centre for Cardiovascular Magnetic Resonance, Blackrock Clinic)

1:05 PM *CMR in Patients with Dilated LV on Echo*
Carlos E. Rochitte, MD (Heart Institute – InCor)

1:25 PM *CMR in Patients with Dilated RV on Echo*
Yuchi Han, MD (University of Pennsylvania)

1:45 PM *Clinical Quiz of Last 3 Speakers*
TBA

PRE-CONFERENCE COURSES

8:00 AM – 2:00 PM **CONGENITAL/PEDIATRIC PRE-CONFERENCE COURSE** (MUSES AREA - THALIE)

8:00 AM – 10:05 AM **Session 1 – How Do I Do It? Techniques and Logistics for Pediatric Cardiac MRI**

Moderators: Rajesh Krishnamurthy, MD (Texas Children's Hospital)
Andrew M. Taylor, MD (Great Ormond Street Hospital)

At the conclusion of this workshop, participants will be better able to:

- Understand and apply the basic CMR techniques to assess patients with congenital heart disease
- Point out the specific gains of CMR in the different cardiac pathologies in children and patients with different types of congenital heart disease
- Compose a dedicated CMR protocol for the evaluation specific pediatric patients or patients with congenital heart disease

8:00 AM	<i>Introduction to the Course</i> Rajesh Krishnamurthy, MD (Texas Children's Hospital)
8:05 AM	<i>Black Blood Imaging</i> Andrew Taylor, MD (Great Ormond Street Hospital)
8:20 AM	<i>Navigator 3D SSFP Whole Heart Imaging</i> Sergio Uribe, PhD (Pontificia Universidad Catolica de Chile)
8:35 AM	<i>3D Contrast Enhanced MRA</i> Taylor Chung, MD (Children's Hospital and Research Center)
8:50 AM	<i>Tissue Characterisation</i> Lars Grosse-Wortmann, MD (Hospital for Sick Children)
9:05 AM	<i>Ventricular Function - Acquisition and Interpretation</i> Margaret Samyn, MD (Medical College of Wisconsin)
9:20 AM	<i>Flow Measurements - Pearls and Pitfalls</i> Phillip B.J. Beerbaum, MD, PhD (Children's Hospital, Hanover Medical University)
9:35 AM	<i>Image Young Patients: Settings and Parameters</i> Rajesh Krishnamurthy, MD (Texas Children's Hospital)
9:50 AM	<i>Sequential Segmental Analysis of Congenital Heart Disease</i> Tal Geva, MD (Children's Hospital Boston)

10:05 AM – 10:20 AM **REFRESHMENT BREAK**

10:20 AM – 12:05 PM **Session 2 – Why Do I Do It? Congenital Heart Disease**

Moderators: Emanuela Valsangiacomo, MD (Children's Hospital Zurich)
Karen Ordovas, MD (University of California San Francisco School of Medicine)

10:20 AM	<i>Shunt Lesions: Simple and Complex</i> Ashwin Prakash, MD (Children's Hospital Boston and Harvard Medical School)
10:35 AM	<i>Pulmonary Circulation: Arteries and Veins</i> Vivek Muthurangu, MD (University College London)
10:50 AM	<i>Aorta: Coarctation and Aortic Arch Anomalies</i> Tarique Hussain, MD, PhD (King's College London)
11:05 AM	<i>Tetralogy of Fallot</i> Arno Roest, MD, PhD (Leiden University Medical Center)
11:20 AM	<i>Transposition of the Great Arteries: Atrial and Arterial Switch</i> Emanuela Valsangiacomo, MD (Children's Hospital Zurich)
11:35 AM	<i>Univentricular Hearts: From Diagnosis to Fontan</i> Mark Fogel, MD, FACC, FAHA, FAAP (Children's Hospital of Philadelphia)
11:50 AM	<i>Univentricular Hearts: After the Fontan</i> William A. Helbing, MD (Erasmus MC - Sophia Children's Hospital)

12:05 PM – 12:45 PM **LUNCH (ON OWN)**

PRE-CONFERENCE COURSES

12:45 PM – 2:00 PM

Session 3 – Why Do I Do It: Acquired and Inherited Paediatric Heart Disease

Moderators: Arno Roest, MD, PhD (Leiden University Medical Center)
Lars Grosse-Wortmann, MD (The Hospital for Sick Children)

- 12:45 PM *Cardiac Tumors: Characterisation with CMR*
Tiffanie R. Johnson, MD (Riley Hospital for Children)
- 1:00 PM *Cardiomyopathies: ARVC, DCM, HCM*
Lars Grosse-Wortmann, MD (Hospital for Sick Children)
- 1:15 PM *Vascular Disease: Kawasaki and Others*
Gerald F. Greil, MD, PhD (King's College)
- 1:30 PM Discussion and Closing Remarks
All Speakers

8:00 AM – 2:00 PM

INTERVENTIONAL CMR WORKSHOP (MUSES AREA - EUTERPE)

8:00 AM – 9:45 AM

Session 1 – Technology for Interventional cMRI

Moderators: Tobias Schaeffter, PhD (Kings College London)
Daniel Herzka, PhD (Johns Hopkins University)

At the conclusion of this workshop, participants will be better able to:

- Understand how to configure and install a clinical suite for iCMR in patients
- Understand common acquisition and reconstruction for MRI catheterization
- Understand some of the technical and safety constraints on clinical MRI catheter devices

- 8:00 AM Welcome & Overview
- 8:15 AM *Real-time MRI*
Tobias Schaeffter, PhD (St Thomas' Hospital)
- 8:30 AM *Data Processing and Visualization*
Rashed Karim, PhD (King's College London)
- 8:45 AM *MR Catheters System*
Ozgur Kocaturk, PhD (Bogazici University)
- 9:00 AM *MR Compatible Robotics and Force Sensing*
Tobias Schaeffter, PhD (St Thomas' Hospital)
- 9:15 AM *Regulatory Approval of New Devices*
Steve Wedan, MS (Imricor Medical Systems)
- 9:30 AM *Discussion of Technological Challenges*
Robert J. Lederman, MD (National Heart, Lung and Blood Institute)

9:45 AM – 10:15 AM

REFRESHMENT BREAK

10:15 AM – 12:00 PM

Session 2 – MR-guided Cardiac Electrophysiology Procedures

Moderators: Graham A. Wright, PhD (Sunnybrook Research Institute, University of Toronto)
Eugene Kholmovski, PhD (UCAIR University of Utah)

- 10:15 AM *Imaging of the Arrhythmic Substrate*
Daniel Herzka, PhD (Johns Hopkins University)
- 10:30 AM *MR-guided Treatment of the Arrhythmic Substrate 1*
Philipp Sommer, MD (Heart Center Leipzig)
- 10:45 AM *MR-guided Treatment of the Arrhythmic Substrate 2*
Christopher Piorkowski, MD (University of Dresden)
- 11:00 AM *MRI Assessment of the Treated Substrate*
Eugene Kholmovski, PhD (University of Utah)
- 11:15 AM New Kids on the Block (short presentations (5min) from new sites entering MR-guided EP)
TBA

PRE-CONFERENCE COURSES

11:45 AM	Industry (Short presentations) - 5 min each TBA
12:00 P – 12:30 PM	LUNCH (ON OWN)
12:30 PM – 2:00 PM	Session 3 – MR-guided Vascular Interventions Moderators: Vivek Muthurangu, MD (University College London) Ian Rogers, MD (Stanford University)
12:30 PM	MR-guided Pediatric Interventions Kanishka Ratnayaka, MD (National Institutes of Health)
12:45 PM	<i>Aortic Coarctation Interventions in Patients</i> Peter Ewert, MD (German Heart Center Munich)
1:00 PM	<i>MR-guided Cardiac Biopsies</i> Dirk Lossnitzer, MD (University of Heidelberg)
1:15 PM	New Kids on the Block (short presentations (5min) from new sites entering MR-guided EP)
1:45 PM	Industry (Short presentations) - 5 min each
2:00 PM	Close

JOINT SCIENTIFIC SESSIONS

Thursday, February 5, 2015

2:30 PM – 4:15 PM	OPENING PLENARY – CMR's Global Impact on Cardiovascular Health: What Have We Achieved and What are the Game Changers? (APOLLON) Moderators: Michael V. McConnell, MD, MSEE (Stanford University School Of Medicine) Steffen E. Petersen, MD, DPhil, MPH (Queen Mary, University of London) At the conclusion of this session, participants will be better able to: <ul style="list-style-type: none"> • Appreciate the evidence supporting the use of CMR in clinical patient management • Discuss the role of CMR in non-ischaemic and ischaemic heart disease • Appreciate the role of CMR in congenital heart disease
2:30 PM	Opening / Welcome Sven Plein, MD, PhD (University of Leeds) Orlando P. Simonetti, PhD (The Ohio State University)
2:40 PM	Keynote Address: <i>Global Cardiovascular Health and What CV Imaging Can Contribute</i> Valentin Fuster, MD, PhD (Mount Sinai Medical Center)
3:10 PM	<i>CMR Redefines the Diagnosis and Therapy of Non-Ischemic Cardiomyopathy</i> Dudley J. Pennell, MD, FRCP, FACC, FESC (Royal Brompton Hospital)
3:25 PM	<i>CMR is the Standard of Care for Congenital Heart Disease</i> Mark A. Fogel, MD, FACC, FAHA, FAAP (Children's Hospital of Philadelphia)
3:40 PM	<i>CMR Provides the Most Comprehensive Assessment of Ischemic Heart Disease in Women and Men</i> Chiara Bucciarelli-Ducci, MD, PhD (Bristol Heart Institute)
3:55 PM	Audience Response Session
4:30 PM – 5:50 PM	INVITED SESSION 1: Cardiomyopathy Assessment by T1/T2 Mapping in Clinical Practice (APOLLON) Moderators: Andrew E. Arai, MD (National Institutes of Health) James Moon, MD (The Heart Hospital) At the conclusion of this session, participants will be better able to: <ul style="list-style-type: none"> • Learner Objective 1 • Learner Objective 2 • Learner Objective 3

JOINT SCIENTIFIC SESSIONS

- 4:30 PM *The Additive Value of T1-mapping in Differentiating the Hypertrophic Phenotype in Cardiomyopathy*
Mariana Fontana, MD (The Heart Hospital)
- 4:46 PM *T2 Mapping vs. T2-weighted Imaging in Myocardial Inflammation and Ischemia*
Subha V. Raman, MD, MSEE (The Ohio State University)
- 5:02 PM *Is There an Additive Value of Mapping Technique in Ischemic Cardiomyopathy?*
Erica Dall'Armellina, MD, DPhil (Oxford University)
- 5:18 PM *Inherited Cardiomyopathy: The Potential of Quantitative Imaging for Early Diagnosis and Risk Stratification*
Andrew E. Arai, MD (NHLBI - National Institutes of Health)
- 5:34 PM *What Constitutes a Good Biomarker and Can Native T1 or ECV Fit the Bill?*
Matthias G. Friedrich, MD (Montreal Heart Institute)
- 4:30 PM – 5:50 PM** **CASE REVIEW 1: Cardiac Masses: Correlating Imaging with Pathology** (HERMES AUDITORIUM)
Moderators: Dipan J. Shah, MD (Methodist DeBakey Heart & Vascular Center)
Raad H. Mohiaddin, MD, PhD, FESC, MRCP, FRC (Royal Brompton Hospital and Harfield NHS Trust)
- 4:30 PM - CR 01 *A Woman With Recurrent Pericardial Effusion*
Ana Barac, MD, PhD (Medstar Heart Institute, Medstar Washington Hospital Center)
- 4:40 PM - CR 02 *Cardiac Magnetic Resonance: Intramyocardial Cavernous Hemangioma*
Pablo Kociubinski, MD (CIMED, Hospital "El Cruce")
- 4:50 PM - CR 03 *A Large Mass Abutting on the Left Ventricle in an Elderly*
Winnie Chan (Queen Elizabeth Hospital)
- 4:50 PM - CR 04 *Primary Cardiac Paraganglioma Treated by a Conservative Approach*
Simone Cristina Costa (UFMG Universidade Federal de Minas Gerais, Hospital Felicio Rocho)
- 4:50 PM - CR 05 *Systemic Disease Presenting as an Obstructive Cardiac Mass; Connecting the Dots*
Luba Frank, MD (University of Michigan)
- 5:20 PM - CR 06 *An Unusual Case of Dyspnea on Exertion*
Jorge Gonzalez, MD (University of Virginia)
- 5:30 PM - CR 07 *A Rare Case of Hydatid Cyst in the Heart, Diagnosed on Magnetic Resonance Imaging (MRI)*
Fateh Ali Sultan, MBBS, FCPS (Aga Khan University Hospital)
- 5:40 PM - CR 08 *Right Ventricular Intramyocardial Haematoma After Percutaneous Coronary Intervention*
Milan Satendra, MD (Hospital Santa Maria)
- 4:30 PM – 5:50 PM** **ORAL ABSTRACT SESSION 1** (MUSES AREA - CLIO THALIE)
Moderators: Frank Kober, PhD (Aix-Marseille University)
Frederick H. Epstein, PhD (University of Virginia)
- 4:35 PM - O1 *Heterogeneity of Diffusion Tensor Imaging Measurements of Fractional Anisotropy and Mean Diffusivity in Normal Human Hearts In Vivo*
Laura-Ann McGill, MBChB, BSc (Imperial College London)
- 4:47 PM - O2 *High-Resolution Multi-breath-held 3D volumetric T1 Mapping Acquisition: Analysis of T1 Measurement Reproducibility Compared to 2D T1 Mapping with a Respiratory Motion Phantom*
Keigo Kawaji, PhD (The University of Chicago)
- 5:00 PM - O3 *Differential Response of the Left and Right Ventricles to Pressure Overload Revealed with Diffusion Tensor MRI Tractography of the Heart In Vivo*
Choukri Mekkaoui (Harvard Medical School)
- 5:12 PM - O4 *Disturbed Diastolic Left Ventricular Inflow Vortex Ring Formation in Patients with Corrected Atrioventricular Septal Defect: Quantitative Three-Dimensional Vortex Core Analysis From 4D Flow MRI*
Emmeline Calkoen, MD (Leiden University Medical Center)
- 5:24 PM - O5 *Relationship of Prolonged Global and Regional Central Circulatory Transit Time with Hemodynamics*
Jennifer Conroy, MD (St. Francis Hospital)

JOINT SCIENTIFIC SESSIONS

5:36 PM - O6 *Elevated Energy Loss in Diastolic Left Ventricular Inflow Corresponds to an Increase in Kinetic Energy in Patients with a Repaired Atrioventricular Septal Defect: Quantification From 4D Flow MRI*
Mohammed S. M. ElBaz (Leiden University Medical Center)

4:30 PM – 5:50 PM**ORAL ABSTRACT SESSION 2 (MUSES AREA - ERATE/URANIE)**

Moderators: Santo Dellegrottaglie, MD, PhD (Mt. Sinai School of Medicine)
Monvadi B. Srichai, MD (NYU School of Medicine)

4:35 PM - O7 *Effect of Purified Omega-3 Fatty Acids on Reducing Left Ventricular Remodeling After Acute Myocardial Infarction (OMEGA-REMODEL Study): A Double-Blind Randomized Clinical Trial*
Bobby Heydari (Brigham and Women's Hospital)

4:47 PM - O8 *Quantification of Myocardial Late Gadolinium Enhancement Using Synthetic Inversion Recovery Imaging*
Akos Varga-Szemes, MD, PhD (Medical University of South Carolina)

5:00 PM - O9 *Infarct Burden Following Multivessel PCI vs Infarct-Only PCI in Patients with Acute STEMI: The Glasgow PRAMI CMR Sub-Study*
Kenneth Mangion (University of Glasgow)

5:12 PM - O10 *Myocardial Perfusion is Impaired in Renal Transplant and Liver Transplant Patients*
Joseph Selvanayagam, MD (Flinders University)

5:24 PM - O11 *Predictive Value of Segmental Extent of Late Gadolinium Enhancement and Peak Circumferential Systolic Strain in Predicting Improvement and Normalisation of Dysfunctional Segments Post STEMI*
Jamal Khan, MRCP, MBChB, BMedSci (University of Leicester)

5:36 PM - O12 *Real-time Cine First-pass Perfusion Imaging Enables Rapid Detection of Functionally Significant High-grade Coronary Stenosis*
Behzad Sharif, PhD (Cedars-Sinai Medical Center)

6:00 PM - 7:00 PM

Wine & Cheese Welcome Reception in Exhibits/Poster Hall (RHODES AREA)

Friday, February 6, 2015

CARDIOLOGY FOR NON-CLINICIANS (MUSES AREA - CLIO/THALIE)

7:30 AM – 8:30 AM**Session 1: CAD – Coronary Artery Disease**

Moderator: Karen Ordovas, MD (University of California San Francisco School of Medicine)

At the conclusion of this session, participants will be better able to:

- Describe the pathophysiology of coronary atherosclerotic disease and how it relates to the development of a myocardial infarction
- List the most common causes and clinical symptoms of heart failure
- Describe the pathophysiology of aortic valve stenosis and the most common clinical presentation

7:30 AM *The Essentials of Stable Coronary Artery Disease – Pathophysiology, Diagnosis, Treatment*
Peter Buser, MD (University Hospital Basel)

7:45 AM *Acute Coronary Artery Disease – Myocardial Infarction – Pathophysiology, Treatment, Consequences*
Oliver Bruder, MD (Elisabeth Hospital Essen)

8:00 AM *CAD Cases*
Gautham P. Reddy, MD, MPH (University of Washington Medical Center)

8:15 AM Q&A

PHYSICS FOR PHYSICIANS (APOLLON)

7:30 AM – 8:30 AM**Physics for Physicians 1**

Moderator: Sebastian Kozerke, PhD (Institute for Biomedical Engineering University and ETH Zurich)

At the conclusion of this session, participants will be better able to:

- Understand the basic principles of signal generation, reception and decay in MRI

JOINT SCIENTIFIC SESSIONS

- Describe the basic image formation process and interrelations between the various parameters including the sources of potential image artifacts
- Evaluate the potential value of advanced motion correction, accelerated imaging and optimization concepts for their research and routine work

7:30 AM	<i>CMR Scanner Hardware – Tesla, Faraday and Bloch</i> Michael Schär, PhD (Johns Hopkins University)
7:50 AM	<i>CMR Pulse Sequence – Echoes, K-space and Fourier</i> Sonia NIELLES-Vallespin, PhD (National Institutes of Health)
8:10 AM	<i>CMR Images - Signal, Noise, Contrast and Artifacts</i> Tobias Schaeffter, PhD (St Thomas' Hospital)

JOINT SCIENTIFIC SESSIONS

7:30 AM – 8:30 AM

CASE REVIEW 2: The Patient is Referred for Work-up of Arrhythmia (HERMES AUDITORIUM)

Moderators: Francisco Alpendurada, MD (Royal Brompton Hospital)
Pierre Croiselle, MD, PhD (Université J. Monnet)

7:30 AM - CR 09	<i>The Patient Presents with Complete Heart Block...</i> Jeannie Yu, MD (National Institutes of Health)
7:40 AM - CR 10	<i>An Usual Cause of Epicardial Late Gadolinium Enhancement...</i> Jonathan Rodrigues, BSc(Hons), MBChB(Hons), MRCP, FRCR (Bristol Heart Institute)
7:50 AM - CR 11	<i>Sudden Cardiac Arrest at Rest in an Asymptomatic Adolescent in School</i> Cynthia Amirtharaj, MBBS (Cohen Children's Hospital)
8:00 AM - CR 12	<i>An Uncommon but Important Finding in a Patient Presenting with Ventricular Tachycardia.</i> Anish Bhuvu, MBBS (The Heart Hospital)
8:10 AM - CR 13	<i>MRI as First Diagnostic Tool in a Case of Atrioventricular Block</i> Christina Unterberg-Buchwald (University Clinic Goettingen, UMG)
8:20 AM - CR 14	<i>47 Year Old Male Presenting to the Emergency Department with His Second Episode of Unstable Ventricular Tachycardia in Four Years: Is There a Role for CMR Based Tissue Characterization Techniques?</i> Andrew Choi, MD (National Heart, Lung, and Blood Institute)

8:40 AM – 10:00 AM

INVITED SESSION 2: The RV Under Stress: CMR of the Pressure/Volume Overloaded RV (APOLLON)

Moderators: Emanuela Valsangiacomo, MD (Children's Hospital Zurich)
Rajesh Krishnamurthy, MD (Texas Children's Hospital)

At the conclusion of this session, participants will be better able to:

- Understand the abnormalities of the left and right ventricle in congenital and pediatric heart disease and how CMR can be applied
- Apply advanced CMR techniques to assess the left and right ventricle in pediatric and congenital heart disease
- Understand how CMR can be used in clinical decision-making involving left and right ventricular abnormalities in congenital heart disease

8:40 AM	<i>The RV Under Pressure – CMR of the Patient with Pulmonary Hypertension</i> Shahin Moledina, MD (Great Ormond Street Hospital)
8:56 AM	<i>The RV Under Pressure – Is the Single RV Different from the Single LV?</i> Rajesh Krishnamurthy, MD (Texas Children's Hospital)
9:12 AM	<i>The Overloaded RV – CMR of the Patient After Tetralogy of Fallot Repair</i> Philipp Beerbaum, MD, PhD (Hanover Medical University)
9:28 AM	<i>The Overloaded RV – CMR of the Patient with Ebstein Anomaly</i> Sohrab Fratz, MD, PhD, FESC (German Heart Centre Munich)
9:44 AM	<i>Can We Help the RV? Role Of CMR in the Planning of PVR</i> Claudio Capelli, PhD (University College London)

JOINT SCIENTIFIC SESSIONS

8:40 AM – 10:00 AM **CASE REVIEW 3: *The Patient is Referred for Assessment of Ischemia and Viability*** (HERMES AUDITORIUM)
 Moderators: Juerg Schwitter, MD, FESC (University Hospital Lausanne – CHUV)
 Amit R. Patel, MD (University of Chicago)

- 8:40 AM - CR 15 *Decoding Chest Pain in a Patient with Cardiac Sarcoidosis*
 Niti Aggarwal, MD (Mayo Clinic)
- 8:50 AM - CR 16 *New Onset Right Bundle Branch Block (RBBB) and Junctional Rhythm on the EKG in a Patient with Giant Coronary Aneurysms Due to Kawasaki Disease*
 Geetha Challapudi, MBBS (North Shore LIJ health system)
- 9:00 AM - CR 17 *An Unexpected Cause of Recurrent Chest Pain Diagnosed by Cardiac Magnetic Resonance*
 Diego Eifer, MD (Hospital de Clinicas de Porto Alegre)
- 9:10 AM - CR 18 *A Rare Cause of ST Segment Elevation in Leads V1-V3; Cardiac Magnetic Resonance at the Diagnostic Crux*
 Ryan Van Woerkom, MD (Mayo Clinic Arizona)
- 9:20 AM - CR 19 *PC VIPR Cardiac MRI of an Unusual Complication of Late Presenting Inferior Myocardial Infarction*
 Joanna Kusmirek, MD (University of Wisconsin)
- 9:30 AM - CR 20 *Utility of T1-Mapping to Determine Viability Following Sub-Acute Myocardial Infarction*
 Sheraz Nazir, BSc, MB BChir, MRCP (University of Leicester)
- 9:40 AM - CR 21 *Combined Non-Contrast Myocardial Viability and Edema Imaging with Diffusion Weighted Sequence for Acute Coronary Syndrome: A Case Report*
 David Chen, BS (Cedars Sinai Hospital)
- 9:50 AM - CR 22 *Use of CMR to Clear The Picture: Anatomy, Viability and Ischaemia*
 Anvesha Singh, MBChB (University of Leicester)

8:40 AM – 10:00 AM **ORAL ABSTRACT SESSION 3** (MUSES AREA - CLIO/THALIE)
 Moderators: David E. Sosnovik, MD (Harvard Medical School)
 Gerald M. Pohost, MD (University of Southern California)

- 8:45 AM - O13 *Localized Chronic Iron Deposition within Non-Reperfused Myocardial Infarctions*
 Avinash Kali, MS (Cedars-Sinai Medical Center)
- 8:57 AM - O14 *Black Blood Late Gadolinium Enhancement Using Combined T2 Magnetization Preparation and Inversion Recovery*
 Tamer Basha, PhD (BIDMC, Harvard Medical School)
- 9:09 AM - O15 *Real Time Measurement of Myocardial Substrate Selection in Vivo Using Hyperpolarized ¹³C Magnetic Resonance*
 Jessica Bastiaansen, PhD (University Hospital)
- 9:21 AM - O16 *Hyperpolarized ¹³C and ³¹P Magnetic Resonance Spectroscopy Identify Pyruvate Dehydrogenase as a Therapeutic Target in Obesity Cardiomyopathy*
 Andrew Lewis (University of Oxford)
- 9:33 AM - O17 *Improved Black-Blood Imaging Using DANTE-SPACE for Combined Carotid And Intracranial Vessel Wall Evaluation*
 Yibin Xie (Cedars-Sinai Medical Center)
- 9:45 AM - O18 *Phantom Validation of 4D Flow: Independent Validation of Flow Velocity Quantification Using Particle Imaging Velocimetry*
 Johannes Töger (Lund University)

8:40 AM – 10:00 AM **ORAL ABSTRACT SESSION 4** (MUSES AREA - ERATE/URANIE)
 Moderators: Matthias Koopman, MD (Universitätsklinikum Münster)
 Michael Guttman (Johns Hopkins University)

- 8:45 AM - O19 *Percutaneous MR Guided Direct Left Atrial Access to Deliver Large Interventional Devices*
 Toby Rogers, Cardiology Fellow (National Institutes of Health)
- 8:57 AM - O20 *MR Guided Right Heart Catheterization – The NIH Experience*
 Toby Rogers, Cardiology Fellow (National Institutes of Health)

JOINT SCIENTIFIC SESSIONS

- 9:09 AM - O21 *Malignant Ventricular Arrhythmias in Patients with Chronic Myocardial Infarction and Predictive Value Of Iron-Sensitive Cardiac Magnetic Resonance Imaging*
Ivan Cokic, MD (Cedars-Sinai Medical Center)
- 9:21 AM - O22 *Atrial Late Gadolinium Enhancement on MRI Relates to the Electrophysiological Substrate of Persistent Atrial Fibrillation*
Stephanie Clement-Guinaudeau (Hôpital Cardiologique Haut-Lévêque)
- 9:33 AM - O23 *Transcatheter Bidirectional Glenn Shunt Guided by Real-Time MRI*
Kanishkam Ratnayaka (National Institutes of Health)
- 9:45 AM - O24 *Respiratory Motion Model Based Correction for Improving the Targeting Accuracy of MRI-Guided Intracardiac Electrophysiology Procedures*
Robert Xu (University of Toronto)

10:00 AM – 10:30 AM**REFRESHMENT BREAK/EXHIBITS/POSTERS (RHODES AREA)**

Exhibit Hall is open from 8:00 am - 7:00 pm; Exhibits staffed from 10:00 am - 4:30 pm

10:40 AM 12:00 PM**CONCURRENT SESSIONS****INVITED SESSION 3: *Interventional CMR* (APOLLON)**

Moderators: Robert J. Lederman, MD (National Heart, Lung and Blood Institute)
Reza Razavi, MD (King's College of London)

At the conclusion of this session, participants will be better able to:

- Understand typical acquisition and reconstruction techniques and safety considerations for MRI catheterization
- Appreciate applications of real-time MRI in electrophysiologic catheter treatments
- Recognize suitable applications of diagnostic and interventional MRI catheterization in adult heart failure and congenital heart disease

- 10:40 AM *Clinical MR-guided Interventions*
Vivek Muthurangu, MD (University College London)
- 10:56 AM *New MR-acquisitions*
Anthony Faranesh, PhD (National Heart, Lung and Blood Institute)
- 11:12 AM *Safety and Regulatory Approval of New Devices*
Steve Wedan, MS (Imricor Medical Systems)
- 11:28 AM *Paving the Way Towards MR-guided Dilatation and Stenting of Coarctation*
Peter Ewert, MD (German Heart Center Munich)
- 11:44 AM *MR-guided Interventions*
Mirja Neizel-Wittke, MD (University Hospital Düsseldorf)

10:40 AM 12:00 PM**CONCURRENT SESSION****INVITED SESSION 4: *CMR of Heart Transplant Complications* (MUSES AREA - ERATE/URANIE)**

Moderators: Carmen Chan, PhD (Queen Mary Hospital)
Massimo Lombardi, MD (Polyclinic San Donato)

At the conclusion of this session, participants will be better able to:

- Learning Objective
- Learning Objective
- Learning Objective

- 10:40 AM *Cardiac Transplant Disease Overview*
James Carr, MD (Northwestern University)
- 10:54 AM *T1 and T2 Assessment in Cardiac Transplant Rejection*
Pierre-Yves Marie, MD (Centre Hospitalier Universitaire de Nancy)
- 11:08 AM *Phosphorus Spectroscopy in Transplant Rejection*
Monique Bernard, PhD (CEMEREM)
- 11:22 AM *Perfusion Quantification Using CMR to Assess Transplant Vasculopathy*
Chris Miller, MBChB (University Hospital of South Manchester)

JOINT SCIENTIFIC SESSIONS

11:36 AM *Coronary Wall Imaging in Transplant Vasculopathy*
Rene M. Botnar, PhD (King's College London/St. Thomas Hospital)

11:50 AM Panel Discussion

10:40 AM 12:00 PM CASE REVIEW 4: CMR In Congenital and Pediatric Patients I (HERMES AUDITORIUM)

Moderators: Shelby Kutty, MD (University of Nebraska)
Gautham P. Reddy, MD, MPH (University of Washington Medical Center)

10:40 AM - CR 23 *Congenital Absence of Marshall's Ligament due to a Persistent Left Superior Vena Cava as Cause of Traumatic Aortic Arch Aneurysm*
Lilia Sierra-Galan, MD, FACC, FSCCT (American British Cowdray Medical Center)

10:50 AM - CR 24 *An Unusual Cause of Dilated Left Ventricle: Role of Comprehensive Cardiac Magnetic Resonance Imaging*
Xiao Zhou (Piedmont Heart Institute)

11:00 AM - CR 25 *Multimodality Imaging for the Diagnostic Evaluation of Endomyocardial Fibrosis*
Bram Ruijsink (St Thomas Hospital)

11:10 AM - CR 26 *Inadvertent Complication of Senning Procedure*
Sherif Moustafa (Mayo Clinic Arizona)

11:20 AM - CR 27 *Cardiomegaly Discovered on a Chest X-Ray in a 16 Year Old Male with Two Weeks of Cough*
Jason Johnson, MD, MHS (University of Tennessee)

11:30 AM - CR 28 *Anomalous Right Coronary Artery from Pulmonary Artery (ARCAPA) with Coronary Steal Demonstrated by Adenosine-Perfusion CMR*
Prakash Muthusami (The Hospital for Sick Children)

11:40 AM - CR 29 *Double Aortic Arch with Coarctation of the Dominant Right Aortic Arch*
Nadine Choueiter, MD (Albert Einstein College of Medicine)

11:50 AM - CR 30 *Extremely Rare Giant Coronary Sinus Aneurysm and Multiple Coronary Artery Aneurysms in a Pediatric Patient*
Dilachew Adebo, MD (Driscoll Children's Hospital)

10:40 AM 12:00 PM ORAL ABSTRACT SESSION 5 (MUSES AREA - CLIO/THALIE)

Moderators: Eike Nagel, MD, PhD, FACC, FESC (King's College London)
Nathaniel Reichek, MD (St. Francis Hospital)

10:45 AM - O26 *Prognostic Significance of Infarct Core Pathology in ST-Elevation Myocardial Infarction Survivors Revealed by Non-Contrast T1 Mapping Cardiac Magnetic Resonance*
David Carrick, BScMedSci, MBChB, MRCP (University of Glasgow)

10:57 AM - O27 *LGE-PSIR is an Independent Predictor of Mortality in Cardiac Amyloidosis: A 250 Patient Prospective Study*
Marianna Fontana (The Heart Hospital)

11:09 AM - O28 *Severe Aortic Stenosis has Blunted Myocardial T1 Relaxation Response to Vasodilator Stress: A Cardiac Magnetic Resonance Adenosine Stress Test Study*
Masliza Mahmud, MBChB, MMED, DPhil (Oxford Centre for Clinical Magnetic Resonance Research)

11:21 AM - O29 *Stress CMR as a Gatekeeper to Complete Revascularisation in STEMI Patients with Moderate-Severe Bystander Disease at Primary Percutaneous Coronary Intervention*
Amardeep Ghosh Dastidar, MBBS, MRCP (Bristol Heart Institute)

11:33 AM - O30 *Cardiac MRI vs. Myocardial 18F-FDG PET/CT in patients with Clinical Concern for Cardiac Sarcoid*
Nam Ju Lee, MD (Perelman School of Medicine of the University of Pennsylvania)

10:40 AM - 12:00 PM WALKING POSTER SESSION (Congenital) (AGORA 2)

12:00 PM - 12:30 PM SCMR Business Meeting

12:00 PM - 12:30 PM EACVI Section CMR Business Meeting

12:30 PM - 1:30 PM LUNCH / EXHIBITS / POSTERS / MODERATED ORAL POSTER

COMPETITION SESSION 1 (RHODES AREA)

Moderators: Nicole Seiberlich, PhD (Case Western Reserve University)
Ingo Eitel, MD (University Leipzig)

JOINT SCIENTIFIC SESSIONS

Judges: Brent A. French, PhD (University of Virginia)
TBD
TBD

- M 01 Inter Breath-hold Reproducibility of Temporal Patterns of Coronary Artery Blood Flow
Jennifer Keegan, PhD (Royal Brompton Hospital)
- M 02 MRI Assessment of Aortic Flow and Pulse Wave Velocity in Response to Exercise
Jacob Macdonald, BSc (University Of Wisconsin)
- M 03 Assessment of Left Atrial and Left Atrial Appendage Flow and Stasis an Atrial Fibrillation
Michael Markl, PhD (Northwestern University)
- M 04 Regional Assessment of Myocardial Regeneration Therapies in Rats Using Magnetic Resonance Tagging
Laurence Jackson, BSc (University College London)
- M 05 Ischemic Postconditioning Diminishes Intramyocardial Hemorrhage in Acute Reperfused Myocardial Infarction in Rats, Evaluated by CMR at 7T
Bing Zhang (Sichuan University)
- M 06 Maps; Acute Safety Data of the St Jude Accent - Tendril Ipg System During Prolonged Max Power CMR Scanning
Mark Ainslie, MBChB (University Hospital South Manchester)

1:30 PM – 2:00 PM **CMR TECHNOLOGY UPDATE** (APOLLON)

2:10 PM – 3:30 PM **INVITED SESSION 5: Updates in Vascular Imaging** (APOLLON)

Moderators: Karen Ordovas, MD (University of California San Francisco School of Medicine)
Jens Bremerich, MD (University Hospital)

At the conclusion of this session, participants will be better able to:

- Oversee state-of-the-art angiographic techniques and new developments
- Understand strengths and limitations of different angiographic techniques
- Identify the best diagnostic strategy for a specific clinical situation

2:10 PM *Update on MR Angiography*
Stephen J. Riederer, PhD (Mayo Clinic)

2:23 PM *Wall Structure and Shear Stress of Ascending Aorta*
James Carr, MD (Northwestern University)

2:36 PM *Hemodynamic Assessment of Coarctation*
Karen Ordovas, MD (University of California, San Francisco School of Medicine)

2:49 PM *Imaging the Pulmonary Circulation*
Jens Bremerich, MD (University Hospital)

3:02 PM *Arterial Stiffness and Vascular Age*
Joao A.C. Lima, MD (Johns Hopkins University)

3:15 PM *Carotid Plaque Characterisation and Stroke Risk*
Chun Yuan, PhD (University of Washington)

2:10 PM – 3:30 PM **CASE REVIEW 5: The Patient is Referred for Assessment of Cardiac Chamber Size, Function, and Morphology** (HERMES AUDITORIUM)

Moderators: Sujata Shanbhag, MD (NIH/NHLBI Laboratory of Cardiac Energetics)
Albert de Roos, MD, PhD (Leiden University Medical Center)

2:10 PM - CR 31 *Not All Asymmetric Septal Hypertrophy is Hypertrophic Cardiomyopathy*
Timothy Wong, MD, MS (University of Pittsburgh Medical Center)

2:20 PM - CR32 *Unusual Hypertrophy in Aortic Stenosis Prior to Valve Replacement*
Thomas Treibel, MBBS (University College London)

2:30 PM - CR 33 *Nitrous Oxide (N2O) Abuse Induced Diffuse Myocarditis*
Sumit Gupta, MRCP(UK), FRCR, PhD (University of Leicester)

JOINT SCIENTIFIC SESSIONS

- 2:40 PM - CR 34 *Reversible Perfusion Defects in Severe Assymmetric Hypertrophic Cardiomyopathy*
Alexander Ivanov, MD (New York Methodist Hospital)
- 2:50 PM - CR 35 *Cardiac Magnetic Resonance in Churg-Strauss Syndrome (CSS): From Diagnosis to Therapy Monitoring*
Nauman Ahmed, MBBS, MRCP (Bristol Heart Institute)
- 3:00 PM - CR 36 *Cardiac Amyloidosis: Different Patterns of Late Gadolinium Enhancement*
Sumit Gupta, MRCP(UK), FRCR, PhD (University of Leicester)
- 3:10 PM - CR 37 *A Case of Cardiac Arrest and Pericardial Tamponade: The Role of Cardiac Magnetic Resonance in the Differential Diagnosis*
Silvia Pica (IRCCS San Matteo Hospital)

2:10 PM – 3:30 PM**ORAL ABSTRACT SESSION 6 (MUSES AREA - CLIO/THALIE)**

Moderators: Raymond Kwong, MD, MPH (Brigham and Women's Hospital)
Stefan Neubauer, MD (John Radcliffe Hospital)

- 2:15 PM - O31 *The Prognostic Value of Cardiovascular Magnetic Resonance in Aborted Sudden Cardiac Death*
Peter Swoboda (University of Leeds)
- 2:27 PM - O32 *Native T1 Myocardial Tissue Characterisation in Patients with Pulmonary Hypertension: Findings from International T1 Multicentre Study*
Andrew Swift, PhD (University of Sheffield)
- 2:39 PM - O33 *Prevalence and Prognostic Significance of Right Ventricular Systolic Dysfunction in Heart Failure with Preserved Ejection Fraction. Insights from a Cardiac Magnetic Resonance Imaging Study*
Stefan Aschauer (Medical University of Vienna)
- 2:51 PM - O34 *Left Ventricular Global Function Index Assessed by Cardiac Magnetic Resonance Imaging for the Prediction of Cardiovascular Events in ST-Elevation Myocardial Infarction*
Ingo Eitel, MD (Heart Center Lübeck)
- 3:03 PM - O35 *Prognostic Significance of The Extent of Septal Fibrosis Quantified on Late Gadolinium Enhanced Images in Patients with Nonischemic Cardiomyopathy*
Aidan Cornhill (Stephenson Cardiac Imaging Centre)
- 3:15 PM - O36 *Appropriate Use Criteria and the Impact of Stress Cardiovascular Magnetic Resonance (CMR) Imaging on Management of Patients with Known or Suspected Coronary Artery Disease*
Sloane McGraw, DO (University of Illinois-Chicago)

2:10 PM – 3:30 PM**ORAL ABSTRACT SESSION 7 (MUSES AREA - ERATE/URANIE)**

Moderators: Henrik Engblom, MD, PhD (Lund University)
Jeanette Schulz-Menger, MD, FESC (Charite Universitätsmedizin)

- 2:15 PM - O37 *Beat to Beat Volumetric Analysis in Arrhythmia Using Real Time CMR*
Francisco Contijoch (University of Pennsylvania)
- 2:27 PM - O38 *Improving the Accuracy of Cardiac DTI by Averaging the Complex Data*
Andrew Scott (The Royal Brompton Hospital)
- 2:39 PM - O39 *High-Resolution T1 Mapping With ANGIE Detects Increased Right-Ventricular Extracellular Volume Fraction In Patients With Pulmonary Arterial Hypertension*
Bhairav Mehta, MS (University of Virginia)
- 2:51 PM - O40 *Prospectively Accelerated First-Pass Myocardial Perfusion Imaging in Patients Using Motion-Compensated Compressed Sensing Exploiting Regional Low-Rank Sparsity*
Xiao Chen (University of Virginia)
- 3:03 PM - O41 *Hybrid PET/MR Metabolic Imaging of the Reperfused Infarct – New Biology, Future Directions*
Steven White, BSc, MBChB (The Hatter Cardiovascular Institute)
- 3:15 PM - O42 *A New Method For Quantification Of Aortic Stiffness In Vivo Using Magnetic Resonance Elastography (MRE): A Translational Study From Sequence Design To Implementation In Patients*
Rachel Clough (King's College London)

2:10 PM - 3:30 PM**WALKING POSTER SESSION (Basic) (AGORA 2)****3:40 PM – 4:10 PM****REFRESHMENT BREAK/EXHIBITS/POSTERS (RHODES AREA)**

JOINT SCIENTIFIC SESSIONS

4:10 PM – 5:30 PM

CONCURRENT SESSION**INVITED SESSION 6: CMR in Unusual Pathologies from Around the World (with ASCI) (APOLLON)**

Moderators: Herbert Frank, MD (University of Vienna)
Byoung Wook Choi, MD, PhD (Yonsei University College of Medicine)

At the conclusion of this session, participants will be better able to:

- Learning Objective
- Learning Objective
- Learning Objective

- 4:10 PM *Endomyocardial Fibrosis Double V Sign – A pathognomonic CMR Sign*
Carlos E. Rochitte, MD (Heart Institute – InCor)
- 4:23 PM *Chagas Disease – Recent Developments*
Gustavo Jardim Volpe, MD, PhD (University of Sao Paulo)
- 4:36 PM *HIV-Related Coronary and Myocardial Disease*
Ahmed Gharib, MD (National Institutes of Health)
- 4:49 PM *Coronary Imaging in Kawasaki Disease*
Hajime Sakuma, MD, PhD (Mie University Hospital)
- 5:02 PM *Different Spectrum of Hypertrophic Cardiomyopathy in Asian Population*
Carmen Chan, MBBS (Queen Mary Hospital)
- 5:15 PM *CMR in Tuberculous Myopericarditis*
Ntobeko Ntusi, MD (University of Oxford)

4:10 PM – 5:30 PM

CONCURRENT SESSION**INVITED SESSION 7: CMR of Molecular Changes (MUSES AREA - ERATE/URANIE)**

Moderators: Matthias G. Friedrich, MD (Montreal Heart Institute)
Massimo Lombardi, MD (Polyclinic San Donato)

At the conclusion of this session, participants will be better able to:

- Learning Objective
- Learning Objective
- Learning Objective

- 4:10 PM *The Current Value of Fluor19 CMR Imaging*
Ruud B. van Heeswijk, PhD (Lausanne University)
- 4:26 PM *CMR Using Iron Oxide Nano Particles – Potential for Plaque and Myocardial Imaging*
Shirjel R. Alam, MBChB (Edinburgh University)
- 4:42 PM *Oxygenation-sensitive CMR – The Non-Invasive Window to Coronary and Microvascular Function?*
Theo Karamitsos, PhD (Oxford Centre for Clinical Magnetic Resonance Research)
- 4:58 PM *Hyperpolarized C13 CMR - Imaging Metabolism Live*
Craig R. Malloy, MD (UT Southwestern Medical Center)
- 5:14 PM *Molecular Imaging of Myocardial Injury and Repair*
David E. Sosnovik, MD (Harvard Medical School)

4:10 PM – 5:30 PM

CASE REVIEW 6: The Patient is Referred for Work-up of Cardiomyopathy (HERMES AUDITORIUM)

Moderators: Joseph Selvanagayam, MBBS, DPhil (Flinders Medical Centre)
Christina Deluigi, MD (University Hospital of Bern)

- 4:10 PM - CR 38 *Giant Cell Myocarditis: A Rare Cause of Myocarditis Presenting with Predominant Right Ventricular Involvement on Cardiac Magnetic Resonance Imaging And Pathology*
Carole Dennie, MD, FRCPC (The Ottawa Hospital, University of Ottawa)
- 4:20 PM - CR 39 *'Myocarditis In Young' Not Always a Benign Pathology*
Amardeep Ghosh Dastidar, MBBS, MRCP (Bristol Heart Institute)
- 4:30 PM - CR 40 *CMR and PET/CT at Diagnosis and Through Treatment in a Patient with Cardiac Sarcoid and Implanted Devices*
Nam Ju Lee, MD (Perelman School of Medicine of the University of Pennsylvania)

JOINT SCIENTIFIC SESSIONS

- 4:40 PM - CR 41 *Cobalt Cardiomyopathy: Cardiac MRI Findings*
Akbar Khan, MD (United Heart and Vascular Clinic)
- 4:50 PM - CR 42 *Exotic Hyper-Eosinophilic Left Ventricular Cardiomyopathy Secondary to Strongyloide Infection*
Vimal Raj (Narayana Hrudayalaya Hospitals)
- 5:00 PM - CR 43 *Isolated Septal Branch Myocardial Infarction Mimicking Non-Ischemic Late Gadolinium Enhancement Pattern on Cardiac Magnetic Resonance Imaging*
Teruo Noguchi, MD (National Cerebral and Cardiovascular Center)
- 5:10 PM - CR 44 *Young Patient With Biventricular Dysfunction*
Sara El Fawal, MD (Alexandria University)
- 5:20 PM - CR 45 *A Challenging Case: Noncompaction Right Ventricul or Multiple Diverticula*
Zahra Alizadeh Sani, MD (Rajaei Cardiovascular Medical & Research Center)

4:10 PM – 5:30 PM**ORAL ABSTRACT 8 (MUSES AREA - CLIO/THALIE)**

Moderators: Daniel Lee, MD (Northwestern University)
Florian von Knobelsdorff-Brenkenhoff, MD (Charité Medical University Berlin)

- 4:15 PM - O43 *Cardiac Mechanical Activation Mapping in Heart Failure Patients with Left Bundle Branch Block Using Cine DENSE MRI*
Daniel Auger Cornejo, PhD (University of Virginia)
- 4:27 PM - O44 *Three dimensional modelling of the Effect of Arterial Pulse Wave Velocity and Body Size on Left Ventricular Geometry*
Wareed Alenaini, Master of Research (Imperial College London)
- 4:39 PM - O45 *Automatic Multi-Vessel Volume Flow Calculation with 4D Flow CMR*
Mariana Bustamante (Linköping University)
- 4:51 PM - O46 *4D Tissue Phase Mapping: Clinically Viable Acquisition Protocol and New Method of Visualisation*
Robin Simpson, MPhys (University Medical Centre)
- 5:03 PM - O47 *Evaluation Of Left Ventricular Torsion Using Cardiac MRI Validation Of Feature Tracking*
Mark Ainslie, MBChB (University Hospital of South Manchester)
- 5:15 PM - O48 *Automatic Scar Segmentation In Dual Inversion Recovery Images Is More Consistent With Manual Outlining Than In Conventional Inversion Recovery Images*
Nicholas Byrne (King's College London)

5:10 PM - 5:30 PM**WALKING POSTER SESSION (Translational) (AGORA 2)****5:40 PM – 7:00 PM****INVITED SESSION 8: 4D PC MRI - Towards Clinical Utility (APOLLON)**

Moderators: Håkan Arheden, MD, PhD (Lund University Hospital)
James Carr, MD (Northwestern University)

At the conclusion of this session, participants will be better able to:

- Learning Objective
- Learning Objective
- Learning Objective

- 5:40 PM *Optimization of 4D PC MRI Acquisition to Research and Clinical Applications – What is Available and What Should We Use?*
Oliver Wieben, PhD (University of Wisconsin-Madison)
- 5:53 PM *Efficient Post Processing and Analysis*
Einar Heiberg, PhD (Lund University)
- 6:06 PM *Clinical Application of 4D PC MRI in Aortic Disease*
Malenka Bissell, MD, MRCPCH (University of Oxford)
- 6:19 PM *Clinical Applications of 4D PC MRI in Congenital Heart Disease*
Philipp Beerbaum, MD, PhD (Hanover Medical University)

JOINT SCIENTIFIC SESSIONS

- 6:32 PM *Clinical Applications of 4D PC MRI in Heart Failure*
Ann F. Bolger, MD (University of California San Francisco)
- 6:45 PM Panel Discussion
- 5:40 PM – 7:00 PM** **ORAL ABSTRACT SESSION 9 (MUSES AREA - CLIO/THALIE)**
Moderators: Ingo Eitel, MD (University Leipzig)
Lourens Robbers, MD (VU University Medical Center)
- 5:45 PM - O53 *Prognostic Significance Of Quantitative Measures Of Myocardial Infarct Pathology Using Native T1 Mapping, In Survivors Of ST-Elevation Myocardial Infarction*
David Carrick, BScMedSci, MBChB, MRCP (University of Glasgow)
- 5:57 PM - O52 *The MRI Evaluation of Nitric-oxide Mediated Systemic Endothelial Function and Coronary Endothelial Function in Healthy Subjects and Patients with Coronary Artery Disease*
Micaela Iantorno, MD (Johns Hopkins University)
- 6:09 PM - O54 *Prognostic Significance of Infarct Core Pathology in ST-Elevation Myocardial Infarction Survivors Revealed by Quantitative T2-Weighted Cardiac Magnetic Resonance*
David Carrick, BScMedSci, MBChB, MRCP (University of Glasgow)
- 6:21 PM - O49 *Suspected Acute Coronary Syndrome with Normal Coronary Arteries: Cardiovascular Magnetic Resonance in the Diagnosis and Management in the Emergency Room*
Alejandra Villanueva (São Paulo University)
- 6:33 PM - O50 *ECG and Navigator-Free 4D Whole-Heart Coronary MRA*
Jianing Pang, PhD (Cedars-Sinai Medical Center)
- 6:45 PM - O51 *Target Volume Coronary MRA Revisited: Usefulness of Non-Rigid Reregistration of Multi-Frame 3D MRA Acquisitions At 3T*
Masaki Ishida (Mie University Hospital)
- 5:40 PM – 7:00 PM** **ORAL ABSTRACT SESSION 10 (HERMES AUDITORIUM)**
Moderators: Philipp Lurz, MD (Great Ormond Street Hospital)
Andrew Crean, MRCP, FRCR (Toronto General Hospital)
- 5:45 PM - O55 *MRI Reveals Hemodynamic Changes with Acute Maternal Hyperoxygenation in Human Fetuses With and Without Congenital Heart Disease*
Prashob Porayette, MBBS, MSc (The Hospital for Sick Children)
- 5:57 PM - O56 *Cardiac MR-Derived Indices Are Stronger Predictors of Resource Use and Risk than Jugular Venous Pressure, in Paediatric Patients with Functionally Single Ventricles, Prior to Completion of Total Cavopulmonary Connection (TCPC)*
Marina Hughes, DPhil, MRCP, FRACP (Great Ormond Street Hospital for Children NHS Foundation Trust)
- 6:09 PM - O57 *Assessing Cardiac Function in the Single Ventricle Circulation: Kinetic Energy Ejection Fraction*
James Wong, MRCPCH (King's College of London)
- 6:21 PM - O58 *Myocardial Blood Flow and Viability in Children Post Palliation Of Hypoplastic Left Heart Syndrome assessed with MRI*
Philip Wegner (Schleswig-Holstein University Hospital)
- 6:33 PM - O59 *Persistent Transverse Arch Hypoplasia is Associated with Systemic Hypertension After Coarctation of Aorta Repair*
Ashwin Prakash, MD (Boston Children's Hospital)
- 6:45 PM - O60 *Fetal Blood Flow Measured Using Phase Contrast MRI-Comparison of Image Quality and Flow Volume at 1.5T with 3.0T*
Beverly Tsai-Goodman, MD (Royal Hospital for Sick Children)
- 5:40 PM – 7:00 PM** **ORAL ABSTRACT SESSION 11 (MUSES AREA - ERATE/URANIE)**
Moderators: Anthony H. Aletras, PhD (Lund University Hospital)
Michael Schär, PhD (Johns Hopkins University)
- 4:45 PM - O61 *3.0T Motion-Corrected Single-Shot Phase Sensitive Inversion Recovery (PSIR) Late Gadolinium Enhancement (LGE) in Free-Breathing Patients Compared with Conventional Segmented Breath-Held LGE*
Lu Lin (Peking Union Medical College Hospital)

JOINT SCIENTIFIC SESSIONS

- 4:57 PM - O62 *Use of an Accelerated Protocol for Rapid Analysis of Iron Overload in the Heart and Liver: The All Iron Detected (AID) Multicenter Study*
Juliano Fernandes, MD, PhD, MBA (Jose Michel Kalaf Research Institute)
- 6:09 PM - O63 *Single Breath-Hold Real-Time MR Cardiac Cine for Evaluation of Left Ventricular Function*
Tomoyuki Kido (Saiseikai Matsuyama Hospital)
- 6:21 PM - O64 *High Resolution Ultra-Fast Sparse Sampling with Iterative Reconstruction Imaging for Left Ventricular Evaluation: Clinical Comparison with Standard SSFP Imaging*
Christian Hamilton-Craig, MBBS, PhD, FSCCT, FACC (The Prince Charles Hospital)
- 6:33 PM - O65 *Free Breathing Contrast-enhanced Time-resolved Magnetic Resonance Angiography in Congenital Heart Disease*
Jennifer Steeden, MEng, PhD (UCL Centre for Cardiovascular Imaging)
- 6:45 PM - O66 *Validation Of Segmented And Real-Time EPI Phase Contrast Flow Quantification Against Segmented Gradient Echo Sequences*
Gergely Szantho, MD (Bristol Heart Institute)

5:40 PM - 7:00 PM **WALKING POSTER SESSION (Basic)** (AGORA 2)

Saturday, February 7, 2015

CARDIOLOGY FOR NON-CLINICIANS

7:30 AM – 8:30 AM **Session 2: CHF – Heart Failure** (MUSES AREA - CLIO/THALIE)
Moderator: Oliver Bruder, MD (Elisabeth Hospital Essen)

At the conclusion of this session, participants will be better able to:

- Describe the pathophysiology of coronary atherosclerotic disease and how it relates to the development of a myocardial infarction
- List the most common causes and clinical symptoms of heart failure
- Describe the pathophysiology of aortic valve stenosis and the most common clinical presentation

- 7:30 AM *The Very Essence Of Heart Failure – Epidemiology, Differential Diagnosis, Treatment, and Risk Stratification*
Marcus Carlsson, MD (Lund University Hospital)
- 7:45 AM *Myocarditis Update*
Christoph Jensen, MD (Elisabeth Hospital)
- 8:00 AM *CHF Cases*
Stefan Zimmerman, MD (Johns Hopkins University School of Medicine)
- 8:15 AM Q&A

PHYSICS FOR PHYSICIANS

7:30 AM – 8:30 AM **Physics for Physicians 2** (APOLLON)
Moderator: Sonia Nielles-Vallespin, PhD (National Institutes of Health)

At the conclusion of this session, participants will be better able to:

- Understand the basic principles of signal generation, reception and decay in MRI
- Describe the basic image formation process and interrelations between the various parameters including the sources of potential image artifacts
- Evaluate the potential value of advanced motion correction, accelerated imaging and optimization concepts for their research and routine work

- 7:30 AM *CMR Motion Control - Sensors, Gating and Correction*
Mathias Stuber, PhD (Lausanne University)
- 7:50 AM *CMR Acceleration - Parallel Imaging and Compressed Sensing*
Nicole Seiberlich, PhD (Case Western Reserve University)
- 8:10 AM *CMR Optimization - SNR, Speed, Resolution and Imaging Limits*
Sebastian Kozerke, PhD (Institute for Biomedical Engineering University and ETH Zurich)

JOINT SCIENTIFIC SESSIONS

JOINT SCIENTIFIC SESSIONS

7:30 AM – 8:30 AM

CASE REVIEW 7: Potpourri Case Session (HERMES AUDITORIUM)

Moderators: Gerald McCann, MD (University Hospitals Leceister)
Norbert Wilke, MD (University of Florida)

- 7:30 AM - CR 46 *Thrombotic Pyrosis*
Eloisa Feliu, MD, PhD (Hospital General Universitario de Alicante)
- 7:40 AM - CR 47 *It's Complicated: Giant Left Ventricular Aneurysm, Pseudoaneurysm, and Ventricular Septal Defect*
Steve Leung, MD (University of Kentucky)
- 7:50 AM - CR 48 *Magnetic Resonance - Conditional Devices Produce Significant Image Degradation When Located Too Close the Heart: A Case of Loop-Recorder and a Case Of Dual-Chamber Pacemaker*
Andrea Barison MD, PhD (Fondazione Toscana Gabriele Monasterio)
- 8:00 AM - CR 49 *Remedy Worse than the Disease*
Rafal Moscicki (Hospital General Universitario De Alicante)
- 8:10 AM - CR 50 *Hypereosinophilic Syndrome Associated Endomyocarditis*
Sumit Gupta, MRCP(UK), FRCR, PhD (University of Leicester)
- 8:20 AM - CR 51 *Uhl's Anomaly In A Young Boy*
Fateh Ali Sultan, MBBS, FCPS (Aga Khan University Hospital)

8:40 AM – 10:00 AM

CONCURRENT SESSION**INVITED SESSION 9: Imaging the Ischemic Heart (APOLLON)**

Moderators: Allison Hays, MD (Johns Hopkins University)
Sahar Soleimanifard, MD, PhD (Johns Hopkins University)

At the conclusion of this session, participants will be better able to:

- Learning Objective
- Learning Objective
- Learning Objective

- 8:40 AM *Risk Stratification*
John P. Greenwood, MBChB, PhD, MRCP (University of Leeds)
- 8:53 AM *Myocardial Perfusion Imaging*
Robert Manka, MD (University Hospital Zurich)
- 9:06 AM *Stress Imaging*
Igor Klem, MD (Duke University Medical Center)
- 9:19 AM *Late Gadolinium Enhancement*
Sonia Nielles-Vallespin, PhD (National Institutes of Health)
- 9:32 AM *Lessons from Clinical Trials*
Victor A. Ferrari, MD (University of Pennsylvania Medical Center)
- 9:45 AM *Controversies and Frontiers (Including MV Dysfunction, IHD in Women)*
Sven Plein, MD, PhD (University of Leeds)

8:40 AM – 10:00 AM

CONCURRENT SESSION**INVITED SESSION 10: Multimodality Imaging (with ESCR) (MUSES AREA - ERATE/URANIE)**

Moderators: Jens Bremerich, MD (University Hospital)
Nadine Kawel-Boehm, MD (University of Basel Hospital)

At the conclusion of this session, participants will be better able to:

- Oversee modalities not typically used by participant
- Understand strengths and limitations of different modalities
- Identify the best modality for a specific clinical situation

- 8:40 AM *Comprehensive Imaging of Ischemic Heart Disease with SPECT-CT*
Matthias Gutberlet, MD (University of Leipzig)

JOINT SCIENTIFIC SESSIONS

- 8:53 AM *Cardiac CT in the Emergency Unit*
Christopher Herzog, MD (Radiologie München)
- 9:06 AM *Tissue Characterisation with PET*
Asbjorn M. Scholtens, MD (University Medical Center Utrecht)
- 9:19 AM *CT Perfusion Imaging*
Joao A.C. Lima, MD (Johns Hopkins University)
- 9:32 AM *Current and Future Role of PET-MRI*
Osman Ratib, MD, PhD (University of Geneva)
- 9:45 AM Panel Discussion
Ischemic Heart Disease and Tissue Characterisation in 2025: Nuclear, CT, MR or Hybrid?
- 8:40 AM – 10:00 AM** **CASE REVIEW 8: CMR In Congenital and Pediatric Patients II** (HERMES AUDITORIUM)
Moderators: Sohrab Fratz, MD, PhD, FESC (German Heart Centre Munich)
Tarique Hussain, MD, PhD (King's College, London, UK)
- 8:40 AM - CR 52 *Progressive Dyspnea and Cyanosis In A Middle Age Man: An Uncommon Disease in Adulthood Detected by Cardiac MRI*
Tarinee Tangcharoen, MD (Mahidol University)
- 8:50 AM - CR 53 *Apical Muscular VSD Closed in Childhood - Rare Complication in Adulthood*
Mahesh Kappanayil, MD (Amrita Institute of Medical Sciences and Research Centre)
- 9:00 AM - CR 54 *Time-Resolved Angiography & 3d Printing in Congenital Heart Disease: Understanding a Difficult Case*
Maria Velasco Forte, PhD Student (Guy's and Saint Thomas Hospital)
- 9:10 AM - CR 55 *CMR Findings of Myocardial Infarction in a Patient with Severe Graft Versus Host Disease Following Bone Marrow Transplantation*
Michael Campbell, MD (Duke University)
- 9:20 AM - CR 56 *Dobutamine Stress Cardiac MRI for Assessment of Myocardial Perfusion in Pediatric Patients with a Diagnosis of Intramyocardial Coronary Course*
Cory Noel, MD (Baylor College of Medicine)
- 9:30 AM - CR 57 *A Rare Case of Survival into Adulthood with w Rare Complex CHD*
Mahesh Kappanayil, MD (Amrita Institute of Medical Sciences and Research Centre)
- 9:40 AM - CR 58 *A Rare Presentation Of Takayasu Arteritis With Abdominal Aortic Dissection Among Other, Typical, Findings: Pre- And Postsurgical Imaging*
Tamadhir Gazzaz, MBBS
- 9:50 AM - CR 59 *Cardiac MRI and Ultrasound Findings in a Patient with Repaired Tetralogy of Fallot (Tof) and Atypically Located Right Ventricular Myxoma: A Case Report*
Alexandros Kallifatidis (St. Luke's Hospital)
- 8:40 AM – 10:00 AM** **ORAL ABSTRACT SESSION 12** (MUSES AREA CLIO/THALIE)
Moderators: Christopher H. Kramer, MD (University of Virginia Health System)
Hajime Sakuma, MD, PhD (Mie University Hospital)
- 8:45 AM - O68 *Blood Flow Pattern in the Ascending Aorta After TAVI and Conventional Aortic Valve Replacement: Analysis Using 4D-Flow MRI*
Ralf Trauzeddel (Charité University Medicine Berlin)
- 8:57 AM - O72 *Characterization of Atherosclerotic Carotid Plaque Using MATCH: Initial Clinical Experience*
Wei Yu (Beijing anzhen Hospital)
- 9:09 AM - O69 *Differential Hemodynamic Characteristics of High-Resistance vs. High-Flow Type of Pulmonary Artery Hypertension Revealed by Phase-Contrast MRI*
Ming-Ting Wu, MD (Kaohsiung Veterans General Hospital)
- 9:21 AM - O71 *Non-contrast 3D Radial and QISS MRA for Transcatheter Aortic Valve Replacement Planning*
Akos Varga-Szemes, MD, PhD (Medical University of South Carolina)
- 9:33 AM - O67 *Reproducibility of Functional Aortic Analysis using MRI: The Multi-Ethnic Study of Atherosclerosis*
Chikara Noda, BS (Johns Hopkins University)

JOINT SCIENTIFIC SESSIONS

- 9:45 AM - O70 *USPIO Enhanced 4D flow Imaging of the Mouse Cardiovascular System at 7T with an Ultrashort Echo Time Sequence*
Aurélien Trotier, MSc (Centre de Résonance Magnétique des Systèmes Biologiques)
- 8:40 AM - 10:00 AM** **WALKING POSTER SESSION (Translational) (AGORA 2)**
- 10:00 AM - 10:30 AM** **REFRESHMENT BREAK/EXHIBITS/POSTERS (RHODES AREA)**
Exhibit Hall is open from 8:00 am - 7:00 pm; Exhibits staffed from 10:00 am - 4:30 pm
- 10:40 AM - 12:00 PM** **INVITED SESSION 11: Too Small, Too Thick and Too Big: CMR of the Left Heart and Aorta in Congenital Heart Disease (APOLLON)**
Moderators: Karen Ordovas, MD (University of California San Francisco School of Medicine)
Arno Roest, MD, PhD (Leiden University Medical Center)
- At the conclusion of this session, participants will be better able to:
- Understand the abnormalities of the left and right ventricle in congenital and pediatric heart disease and how CMR can be applied
 - Apply advanced CMR techniques to assess the left and right ventricle in pediatric and congenital heart disease
 - Understand how CMR can be used in clinical decision-making involving left and right ventricular abnormalities in congenital heart disease
- 10:40 AM *The Borderline Left Ventricle – When is Small Too Small? CMR in Clinical Decision Making for Uni- vs Bi-Ventricular Repair*
Puja Banka, MD (Boston Children's Hospital)
- 10:56 AM *The Thick LV: Paediatric Aspects of CMR Imaging In Hypertrophic Cardiomyopathy*
Francesca Raimondi, MD (The Hôpital Necker – Enfants Malades)
- 11:12 AM *When the Aortic Valve is Too Small: T1 Mapping in Congenital Aortic Stenosis*
Andrew J. Powell, MD (Children's Hospital Boston)
- 11:28 AM *4D Flow in a Small or Enlarged Aorta*
Alex Barker, PhD (Northwestern University)
- 11:44 AM *Big, Small or Tortuous? CMR of the Aorta in Connective Tissue Disease*
Shaine Morris, MD (Texas Children's Hospital)
- 10:40 AM - 12:00 PM** **CASE REVIEW 9: Best Cases of the SCMR Web COTW (HERMES AUDITORIUM)**
Moderators: Edward T. Martin, MD (Oklahoma Heart Institute)
TBD
- 10:40 AM - 12:00 PM** **ORAL ABSTRACT SESSION 13 (MUSES AREA - CLIO/THALIE)**
Moderators: Rohan Dharmakumar, PhD (Cedars-Sinai Medical Center)
Damian Tyler, PhD (University of Oxford)
- 10:45 AM - O73 *Myocardial Conduction Network Visualized By Magnetic Resonance Microscopy/Diffusion Imaging and Validated By Histology*
John Forder, PhD (University of Florida)
- 10:57 AM - O74 *Visual Detection and Characterization of Chronic Myocardial Infarctions in Patients Using Native T1 Maps at 3T*
Avinash Kali, MS (Cedars-Sinai Medical Center)
- 11:09 AM - O74 *Characterization of Both Myocardial Extracellular Volume Expansion and Myocyte Hypertrophy by CMR in Heart Transplantation Recipients Without Active Rejection: Implications for Early Cardiac Remodeling*
Otavio Coelho-Filho, MD, PhD (State University of Campinas – UNICAMP)
- 11:21 AM - O76 *Assessment of Intramyocardial Hemorrhage in Acute Reperfused Myocardial Infarction Using 7.0T*
Wei Chen, PhD Student (West China Hospital)
- 11:33 AM - O77 *Improving the Stratification Power of Cardiac Ventricular Shape*
Gerardo Gonzalez (King's College London)
- 11:45 AM - O78 *Validation of High Temporal Resolution Spiral Phase Velocity Mapping of Coronary Artery Blood Flow Against Doppler Flow Wire.*
Jennifer Keegan, PhD (Imperial College)

JOINT SCIENTIFIC SESSIONS

10:40 AM – 12:00 PM **ORAL ABSTRACT SESSION 14** (*MUSES AREA - ERATE/URANIES*)

Moderators: Holger Thiele, MD (University of Luebeck)
Oliver Bruder, MD (Essen)

- 10:45 AM - O85 *Left Ventricular Remodelling and Prosthetic Valve Function After Transcatheter Aortic Valve Implantation: A Serial Cardiac Magnetic Resonance Imaging Study*
Constanze Merten (Herzzentrum Bad Segeberg)
- 10:57 AM - O86 *Performance of Native and Contrast Enhanced T1 Mapping to Detect Myocardial Damage in Patients with Suspected Myocarditis: A Head to Head Comparison of Different CMR-Techniques* Jonathan Nadjiri (Deutsches Herzzentrum München)
- 11:09 AM - O87 *Improved Diagnostic Role of CMR in Acute Coronary Syndromes and Unobstructed Coronary Arteries: The Importance of Time-to-CMR*
Amardeep Ghosh Dastidar, MBBS, MRCP (Bristol Heart Institute)
- 11:21 AM - O88 *Turbulent Kinetic Energy in the Ascending Aorta is Greater in Bicuspid than Tricuspid Aortic Valve Stenosis*
Margaret Loudon, MBChB (University of Oxford)
- 11:33 AM - O89 *T1 Mapping in Severe Aortic Stenosis: Insights into LV Remodeling*
Thomas Treibel, MBBS (University College London)
- 11:45 AM - O90 *T1 and T2 Mapping CMR to Quantify Focal Myocardial Injury in Patients with Myocarditis*
Kai Muellerleile, MD (University Heart Center Hamburg)

10:40 AM - 12:00 PM **WALKING POSTER SESSION (Clinical)** (*AGORA 2*)**12:00 PM – 1:00 PM** **LUNCH/EXHIBITS/POSTERS/MODERATED ORAL POSTER COMPETITION SESSION** (*RHODES AREA*)**1:10 PM – 2:30 PM** **CONCURRENT SESSION****INVITED SESSION 12: CMR of Arrhythmia and Ablation** (*APOLLON*)

Moderators: Graham A. Wright, PhD (Sunnybrook Research Institute, University of Toronto)
Tobias Schaeffter, PhD (Kings College London)

At the conclusion of this session, participants will be better able to:

- Understand the role of MRI in characterising the arrhythmic substrate and the effect of ablation therapy
- Learn about computational modelling for treatment planning
- Understand the role of different imaging modalities modalities in image-guided EP-procedures

- 1:10 PM *MRI of the Arrhythmic Substrate*
David A. Bluemke, MD, PhD (National Institutes of Health)
- 1:26 PM *Planning of Ablation Strategies*
Oleg Aslanidi, PhD (King's College London)
- 1:42 PM *Integration of multi-modal imaging for EP-procedures*
Saman Nazarian, MD, PhD (Johns Hopkins University)
- 1:58 PM *Clinical MR-guided EP-procedures*
Reza Razavi, MD (King's College London)
- 2:14 PM *MRI of acute RF-lesions*
Graham A. Wright, PhD (Sunnybrook Research Institute, University of Toronto)

1:10 PM – 2:30 PM **CONCURRENT SESSION****INVITED SESSION 13: Assessing the Hematology/Oncology Patient** (*MUSES AREA - ERATE/URANIE*)

Moderators: Alexis Jacquier, MD (CHU la Timone / CEMEREM)
Christopher H. Kramer, MD (University of Virginia Health System)

At the conclusion of this session, participants will be better able to:

- Understand the complementary role of CMR in patients undergoing chemotherapeutic assessment
- Understand the strengths and limitations of CMR in assessing intracardiac mass
- Understand the general role for CMR in evaluating hematology/oncology patients

- 1:10 PM *The Cardiac Effects of Chemotherapeutics and Immunotherapy on the Heart and the Use of Imaging in Guiding Therapy*

JOINT SCIENTIFIC SESSIONS

Michael Salerno, MD, PhD (University of Virginia Health System)

1:23 PM *CMR for the Detection of Preclinical LV Dysfunction in Breast Cancer Therapies*
Ana Barac, MD, PhD (Washington Hospital Center)

1:36 PM *CMR for the Evaluation of Intracardiac Masses*
Patricia Bandettini, MD (Bethesda, Maryland)

1:49 PM *Novel Use of Tissue Characterization in Screening and Monitoring the Oncology/Hematology Patient*
James Moon, MD (The Heart Hospital)

2:02 PM *Integrating CMR into a Cardio-Oncology Practice*
Lauren Simprini, MD (Yale School of Medicine)

2:15 PM Clinical Cases/Discussion Panel

1:10 PM – 2:30 PM**ORAL ABSTRACT SESSION 15 (MUSES AREA - CLIO/THALIE)**

Moderators: Andrew Crean, MRCP, FRCR (Toronto General Hospital)

1:15 PM - O79 *Gender and Myocardial Fibrosis by CMR are Independent Predictors of Myocardial Dysfunction in Patients with Chagas' Heart Disease*
Alejandra Villanueva (Heart Institute)

1:27 PM - O80 *Predictors of Outcome in Patients with Parvovirus B19 Positive Endomyocardial Biopsy*
Simon Greulich, MD (Robert Bosch Medical Center)

1:39 PM - O81 *Abnormal Myocardial Perfusion Correlates with Impaired Systolic Strain and Diastolic Strain Rate in Systemic Lupus Erythematosus: A Cardiovascular Magnetic Resonance Study*
Ntobeko Ntusi, MD, MBChB (University of Oxford)

1:51 PM - O82 *Cardiovascular Magnetic Resonance Assessment of Ventricular Morphology to Investigate the Mechanisms of Heart Failure Associated with Type 2 Diabetes*
Peter Swoboda (University of Leeds)

2:03 PM - O83 *Preclinical Alterations in Cardiac Energetics Amongst Sarcomere Mutation Carriers in Hypertrophic Cardiomyopathy*
Rachael Lloyd (South Australian Health and Medical Research Institute)

2:15 PM - O84 *Native T1 Mapping in Patients with Idiopathic Dilated Cardiomyopathy for the Assessment of Diffuse Myocardial Fibrosis: Validation Against Histologic Endomyocardial Biopsy*
Yoshitaka Goto (Mie University Hospital)

1:10 PM – 2:30 PM**ORAL ABSTRACT SESSION 16 (HERMES AUDITORIUM)**

Moderators: Philip Lurz, MD (Great Ormond Street Hospital)
Titus Kuehne, MD

1:15 PM - O91 *Whole-Heart Contrast Enhanced Coronary Magnetic Resonance Angiography Using Respiratory Image Based Navigation in Patients with Congenital Heart Disease*
Miguel Vieira, MD (King's College London)

1:27 PM - O92 *MRI Reveals Increased Superior Vena Caval Blood Flow In Human Fetuses With Congenital Heart Disease, Abnormal Placental Pathology And Neonatal Brain White Matter Changes*
Sujana Madathil, MBBS (The Hospital for Sick Children)

1:39 PM - O93 *Relationship between Collateral Flow and Exercise Performance in Fontan Patients: An Exercise CMR Study*
Kevin Whitehead, MD, PhD (Children's Hospital of Philadelphia)

1:51 PM - O94 *Systemic Right Ventricular Fibrosis Detected By CMR Predicts Adverse Clinical Outcome In Patients After Atrial Redirection Surgery For Transposition Of The Great Arteries*
Riikka Rydman, MD, PhD (Royal Brompton Hospital)

2:03 PM - O95 *Respiratory Pulsations Affect Fontan Connection Power Loss: Using Real Time Velocity Mapping to Improve the Accuracy of Computational Simulations*
Elaine Tang, BEng (Georgia Institute of Technology)

2:15 PM - O96 *Characterization of The Relationship Between Bicuspid Aortic Valve Morphology and Hemodynamics*
Vrishank Raghav, PhD (Georgia Institute of Technology)

JOINT SCIENTIFIC SESSIONS

1:10 PM - 2:30 PM

WALKING POSTER SESSION (Basic) (AGORA 2)

2:40 PM – 4:00 PM

CONCURRENT SESSION**INVITED SESSION 14: Aortic Valve Disease and Transcatheter Aortic Valve Replacement** (APOLLON)Moderators: Chiara Bucciarelli-Ducci, MD, FESC (Bristol Heart Institute)
Byoung Wook Choi, MD, PhD (Yonsei University College of Medicine)

At the conclusion of this session, participants will be better able to:

- Learning Objective
- Learning Objective
- Learning Objective

2:40 PM

Aortic Stenosis: A Disease of the Valve and Myocardium
Gerald McCann, MD (University Hospitals Lecester)

2:53 PM

Comprehensive Assessment of Aortic Stenosis by CMR
Clério F. Azevedo, MD (Clínica de Diagnóstico por Imagem)

3:06 PM

Role of CMR to guide decision making in aortic regurgitation
Saul Myerson, MD, FRCP (University of Oxford)

3:19 PM

Novel Mapping Techniques in Aortic Valve Disease: Ready for Prime Time?
Joao A.C. Lima, MD (Johns Hopkins University)

3:32 PM

The Role of CMR to Guide TAVR
Matthias Gutberlet, MD (University of Leipzig)

3:45 PM

Unresolved Issues and Future Directions – Role of CMR and Other Imaging Modalities
Calvin Chin, MD (University of Edinburgh)

2:40 PM – 4:00 PM

CONCURRENT SESSION**INVITED SESSION 15: Small Animal CMR** (MUSES AREA - ERATE/URANIE)Moderators: Sebastian Kozerke, PhD (Institute for Biomedical Engineering University and ETH Zurich)
Bernhard Gerber, MD (Cliniques St. Luc UCL)

At the conclusion of this session, participants will be better able to:

- Understand similarities and differences of equipment and methods for small and large animal CMR relative to human CMR
- Identify the animal models used to emulate various cardiovascular conditions/diseases
- Describe imaging approaches to monitor structural, molecular and pharmacological interventions

2:40 PM

CMR Technology in Animals
Frederick H. Epstein, PhD (University of Virginia)

2:53 PM

Ischemic Heart Disease Models (Including Pigs)
Frank Kober, PhD (Centre de Résonance Magnétique Biologique et Médicale)

3:06 PM

Heart Failure Models (Including Pigs)
Jurgen Schneider, PhD (Oxford University)

3:19 PM

Stem Cell Models
Dara Kraitchman, VMD, PhD (Johns Hopkins University School of Medicine)

3:32 PM

Molecular Imaging
Alkystis Phinikaridou, PhD (Kings College London)

3:45 PM

Therapy Monitoring

2:40 PM – 4:00 PM

CASE REVIEW 10: World Cup Case Session Competition (HERMES AUDITORIUM)Moderators: Albert van Rossum, MD, PhD (VU Medical Center)
Mark Westwood, MD, FRCP (The London Chest Hospital)Competitors: Andrew E. Arai, MD (NHLBI - National Institutes of Health)
Albert de Roos, MD, PhD (Leiden University Medical Center)
Victor A. Ferrari, MD (University of Pennsylvania Medical Center)
Matthias G. Friedrich, MD (Montreal Heart Institute)

JOINT SCIENTIFIC SESSIONS

Raymond J. Kim, MD (Duke Medical Center)
 James Moon, MD (The Heart Hospital)
 Saul Myerson, MD, FRCP (University of Oxford)
 Jeanette Schulz-Menger, MD, FESC (Charite Universitätsmedizin)

2:40 PM – 4:00 PM**ORAL ABSTRACT SESSION 17 (MUSES AREA - CLIO/THALIE)**

Moderators: Anthony H. Aletras, PhD (Lund University Hospital)

- 2:45 PM - O97 *Assessing Ischemic Myocardial Metabolism In Vivo With Hyperpolarized ¹³C: Relating The Metabolic Perturbation To The Area At Risk*
Hikari Yoshihara (Lausanne University Hospital)
- 2:57 PM - O98 *Effect of Exercise on Myocardial Energy Metabolism And Relationship Between Coronary Microvascular Dysfunction and Abnormal Myocardial Energetics in Diabetic Cardiomyopathy*
Eylem Levelt (University of Oxford)
- 3:09 PM - O99 *Impaired Energetics and Normal Myocardial Lipids in Rheumatoid Arthritis and Systemic Lupus Erythematosus: A Phosphorous and Proton Magnetic Resonance Spectroscopy and Cardiovascular Magnetic Resonance Study*
Ntobeko Ntusi, MD, MBChB (University of Oxford)
- 3:21 PM - O100 *Hyperpolarized Metabolic Imaging of Myocardial Ischemia-Reperfusion in a Small-Animal Model at 9.4T*
Darach O h-Ici, MD (German Heart Institute)
- 3:33 PM - O101 *Myocardial Fatty Acid Metabolism Probed with Hyperpolarized [1-¹³C]Octanoate*
Hikari Yoshihara (Lausanne University Hospital)
- 3:45 PM - O102 *Development of a Tropoelastin-Binding MR Contrast Agent for in Vivo Imaging of Impaired Elastogenesis in Atherosclerosis*
Alkystis Phinikaridou (King's College London)

2:40 PM - 4:00 PM**WALKING POSTER SESSION (Congenital) (AGORA 2)****4:15 PM – 5:30 PM****CLOSING PLENARY: CMR's Impact on Global Cardiovascular Health: Latest progress and looking forward (APOLLON)**Moderators: Victor A. Ferrari, MD (University of Pennsylvania Medical Center)
Sven Plein, MD, PhD (University of Leeds)
Orlando P. Simonetti, PhD (The Ohio State University)

At the conclusion of this session, participants will be better able to:

- Learning Objective
- Learning Objective
- Learning Objective

- 4:15 PM *Session Highlights*
Sven Plein, MD, PhD (University of Leeds)
Victor A. Ferrari, MD (University of Pennsylvania Medical Center)
- 4:35 PM *Coronary MR – Angiography and Beyond*
Warren J. Manning, MD (Beth Israel Deaconess Medical Center)
- 4:55 PM *The 4th Era of Myocardial CMR*
Vanessa Ferreira, MD (University of Oxford)
- 5:10 PM *Translating Technology to Improved Outcomes*
Raymond Kwong, MD, MPH (Brigham and Women's Hospital)
- 5:25 PM *Farewell until 2016 in LA (SCMR), Florence? (EuroCMR)*
Sven Plein, MD, PhD (University of Leeds)
Victor A. Ferrari, MD (University of Pennsylvania Medical Center)

5:30 PM – 6:30 PM**AWARD CEREMONY (APOLLON)**

Gold Medal and Other Award Presentations

TECHNOLOGIST TRACK MUSES AREA - CALLIOPE

Friday, February 6, 2015

This activity has been approved for credit by the American Society of Radiologic Technologists (ASRT) for a maximum of 10.75 CE credits.

8:40 AM – 10:10 AM

Session 1 – Physics

Moderator: David Wendell, PhD (Duke University Medical Center)

8:40 AM

Cardiac Pulse Sequences

Albert Hsiao, MSc (University of California, San Diego)

At the conclusion of this session, the participant will be better able to:

- Identify typical pulse sequences used for cardiac MRI.
- Understand the typical uses for each of the pulse sequences.
- Identify the basic parameters available for optimization of each pulse sequence in routine scanning.

9:10 AM

Sequence Optimisation

Magalie Viallon-Croisille, PhD (CREATIS Laboratory, University Hospital of Saint Etienne, University of Lyon)

At the conclusion of this session, the participant will be better able to:

- Learning the minimal MR physics notions that allows to optimise the main cardiovascular sequences
- Be able to identify the main artefacts and find the work around to resolve the problem if possible
- Know the tips and tricks to tune MR sequence parameters of interest for optimisation purposes

9:40 AM

Artifacts and How to Avoid Them

Francesco Santini, MD (University Hospital Basel)

10:10 AM – 10:40 AM

REFRESHMENT BREAK/EXHIBITS/POSTERS

Exhibit Hall is open from 8:00 am - 7:00 pm; Exhibits staffed from 10:00 am - 4:30 pm

10:40 AM – 12:00 PM

Session 2 – Patient Setup, Vascular Imaging and Flow Assessment

Moderator: Chris Lawton (Bristol Heart Institute)

10:40 AM

Poor ECG Triggering: What Can We Do?

Christina Deluigi, MD (University Hospital of Bern)

At the conclusion of this session, the participant will be better able to:

- Recognize trigger artifacts
- Optimize parameters
- Understand mechanism of ECG trigger problems

11:05 AM

CE MRA Including Time Resolved Angio

Tim Leiner, MD, PhD (Utrecht University Medical Center)

At the conclusion of this session, the participant will be better able to:

- Understand state-of-the-art 'static' and 'dynamic' acquisition methods in contrastenhance MR Angiography
- Understand contrast-dosing strategies and how to optimize contrast injection to obtain the best image quality at the lowest dose
- Discuss recent insights regarding contrast medium safety

11:30 AM

Post Processing Flow Data - How, Why and What Does it Mean

John-Paul Carpenter, MD (Poole Hospital)

At the conclusion of this session, the participant will be better able to:

- Choose which CMR flow acquisitions are relevant for analysis
- Analyze CMR flow data
- Interpret the results

12:30 PM – 1:10 PM

LUNCH ON OWN

1:10 PM – 2:30 PM

Session 3 – Ischaemia and Viability

Moderator: Michelle Walkden, BSC (University Hospital Trust Southampton)

1:10 PM

Late Gadolinium Enhancement

Scott Flamm, MD (Cleveland Clinic)

TECHNOLOGIST TRACK MUSES AREA - CALLIOPE

At the conclusion of this session, the participant will be better able to:

- Discuss the mechanisms responsible for the increased signal intensity in irreversibly damaged myocardium
- Explain the distinct advantages of late gadolinium enhancement imaging by cardiac MRI
- Recognize the clinical situations appropriate for cardiac MRI late gadolinium enhancement imaging

1:35 PM

Adenosine Stress

Aparna Deshpande, MD (University Hospitals of Leicester NHS Trust)

At the conclusion of this session, the participant will be better able to:

- Recognize the indications and contraindications for adenosine stress with regards to assessment for underlying ischaemia
- Distinguish genuine perfusion defect from artefacts and underlying infarction
- Comprehend the techniques and protocol involved in adenosine stress perfusion

2:00 PM

Dobutamine Stress

Raymond Kwong, MD, MPH (Brigham and Women's Hospital)

At the conclusion of this session, the participant will be better able to:

- List the steps of pre-test safety assessment and conditions where dobutamine stress CMR are contraindicated
- Recognize the steps in imaging LV function and perfusion during stages of progressive dobutamine infusion
- Know the method of image interpretation for dobutamine CMR imaging

2:30 PM – 3:00 PM

REFRESHMENT BREAK

3:00 PM – 4:20 PM

Session 4 – Oral Abstracts

Moderator: Jane Francis (John Radcliffe Hospital)

4:40 PM – 6:00 PM

Session 5 – Cardiomyopathy

Moderator: Baljit Jagpal, MSc, PgC-MRI, DCR (University of Aberdeen / NHS Grampian)

4:40 PM

Acquired Cardiomyopathies

Richard Coulden, MD (University of Alberta)

At the conclusion of this session, the participant will be better able to:

- TBA
- TBA
- TBA

5:05 PM

Familial Cardiomyopathies

Katherine Tweed, MD (Papworth Hospital NHS Foundation Trust)

At the conclusion of this session, the participant will be better able to:

- Utilize appropriate sequences for assessment of the range of phenotypic expression of Hypertrophic Cardiomyopathy
- Describe the typical MRI features of ARVC, supported by histopathological correlation
- Recognise the typical MRI appearances in glycogen storage diseases of Anderson-Fabry and Gauchers

5:30 PM

Metabolic Cardiac Diseases

Michaela Scheuermann-Freestone, MD (Oxford Centre for Clinical Magnetic Resonance Research)

At the conclusion of this session, the participant will be better able to:

- Associate some metabolic abnormalities with their implications on cardiac function
- Apply this knowledge to other well known metabolic disorders
- Realise the potential and advantages of cardiac MRI in assessing the heart in metabolic diseases

TECHNOLOGIST TRACK MUSES AREA - CALLIOPE

Saturday, February 7, 2015

8:40 AM – 10:10 AM

Session 6 – CMR in Congenital Heart Disease

Moderator: Craig Kissinger (Beth Israel Deaconess Medical Center)

8:40 AM

Imaging the Paediatric Patient

Romina Linton, BSc (Great Ormond Street Hospital)

At the conclusion of this session, the participant will better be able to:

- Recognise the diversity of patients undergoing Cardiac MRI
- Acknowledge the importance of each role in the multidisciplinary team
- Tailor protocols and optimise sequences according to the patients diagnosis and size

9:10 AM

Adult Congenital Heart Disease

Andrew Crean, MRCP, FRCR (Toronto General Hospital)

At the conclusion of this session, the participant will better be able to:

- Review the MRI techniques available for imaging adult congenital heart disease (ACHD)
- Review common congenital pathologies where these techniques can be applied
- Recognize the limitations of MRI in certain contexts

9:40 AM

Congenital Heart Disease Associated With Chromosomal Disorders

Ian Rogers, MD (Stanford University)

At the conclusion of this session, the participant will better be able to:

- Identify the common chromosomal disorders associated with congenital heart disease
- Understand possible necessary accommodations for scanning patients with chromosomal disorders
- Identify the factors routinely assessed by CMR in patients with tetralogy of Fallot

10:10 AM – 10:40 AM

REFRESHMENT BREAK/EXHIBITS/POSTERS

Exhibit Hall is open from 8:00 am - 7:00 pm; Exhibits staffed from 10:00 am - 4:30 pm

10:40 AM – 12:00 PM

Session 7 – CMR in Cardiac Masses and Diseases of the Valves and Pericardium

Moderator: Jennifer Bryant (University Hospital Southampton)

10:40 AM

Valvular Disease

Bobby Agrawal, MD (Papworth Hospital NHS Foundation Trust)

At the conclusion of this session, the participant will better be able to:

- Describe the normal anatomy of the cardiac valves as seen on MRI
- Understand the common pathologies of cardiac valves
- Identify congenital and iatrogenic valvular lesions

11:05 AM

Pericardial Disease

Chi Wai Stephen Cheung, MBBS, FRCR (Queen Mary Hospital)

At the conclusion of this session, the participant will better be able to:

- Identify the role of MR in the characterisation of common pericardial diseases
- Select the MR imaging sequence and technique to be used in the investigation of pericardial disease
- Describe the typical MR appearance of common pericardial pathologies

11:30 AM

Cardiac Masses

Stephen Harden, MD (University Hospital Southampton)

At the conclusion of this session, the participant will better be able to:

- Recognise the utility of CMR in imaging myocardial masses
- Generate a protocol for imaging cardiac tumours
- Develop an approach to the initial interpretation of these scans

12:00 PM – 1:10 PM

LUNCH ON OWN

1:10 PM – 2:40 PM

Session 8 – Emerging Technology

Moderator: Elizabeth Jenista, PhD (uke University Medical Center)

1:10 PM

T1 and T2 Mapping – Where Are We Now

Stefan Piechnik, PhD (Oxford University)

TECHNOLOGIST TRACK MUSES AREA - CALLIOPE

At the conclusion of this session, the participant will better be able to:

- Generalize the principles of quantitative magnetic resonance imaging,
- Differentiate between the common cardiovascular techniques and their variants,
- Understand the limitations, recognise basic artefacts and application strategies in daily imaging

1:40 PM *3T Cardiac Imaging – How to Do it Well and Safely*
Rajesh Dash, MD, PhD (Stanford University)

At the conclusion of this session, the participant will better be able to:

- Review safety measures for working in strong magnetic fields; absolute and relative contraindications to cardiac MRI
- Acquire strategies to obtain high quality cardiac MR images at 3T
- Identify solutions to common 3T CMR pitfalls

2:10 PM *Cardiac Spectroscopy*
Paul Bottomley, PhD (Johns Hopkins University)

At the conclusion of this session, the participant will better be able to:

- Say/know what technology and protocols are required to do cardiac MRS
- Say/know what are the most promising applications of cardiac MRS
- Understand its potential for assessing cardiac energetics in heart failure

2:40 PM – 3:40 PM **Session 9 – Case Review Session**
Moderator: Alison Fletcher, DCRR, PG Dip (Paperworth Hospital)

2:40 PM Case Review – Non-congenital
James Shambrook, MD (University Hospital Southampton)

At the conclusion of this session, the participant will be better able to:

- Compare and differentiate the variety of CMR sequences available, and their role in diagnosis
- Recognize how CMR works as a problem solving tool
- Contrast the benefit of CMR compared to other imaging modalities

3:10 PM Case Review – Congenital
Marina Hughes, MD (Great Ormond Street Hospital)

At the conclusion of this session, the participant will better be able to:

- Describe the techniques for optimising image planes for diagnostic scanning of the volume-loaded RV
- Recognise some basic techniques for optimising temporal and spatial resolution, and slice position, to more accurately quantify flow data from the aortic arch, pulmonary arteries, systemic and pulmonary veins
- Comprehend some of the technical complexities of scanning a paediatric patient with a functionally single ventricle and cavo-pulmonary shunt (BCPC), prior to surgical conversion to a Fontan-type circulation (Total cavo-pulmonary connection (TCPC))

3:40 PM – 4:00 PM **Closing Plenary**
Alison Fletcher, DCRR, PG Dip (Papworth Hospital)

At the conclusion of this session, the participant will better be able to:

- Comprehend the importance the role the technologist plays in using CMR as a diagnostic tool
- Understand the importance of accurate image acquisition
- Be able to use clinical knowledge to aid in the technical aspects of image acquisition

TECHNOLOGIST POSTERS

T 4	<i>Lawton, Chris</i>	Positioning the First Short Axis Slice for Ventricular Volume Analysis
T 5	<i>Lawton, Chris</i>	How to measure vessel flow with CMR phase contrast imaging.
T 6	<i>Kissinger, Kraig</i>	A greater incidence of Nausea/Vomiting Reactions to Multihance® is Seen Among Those of African Descent
T 7	<i>Wage, Ricardo</i>	The Utility of Magnetic Resonance Imaging in a Trial to Assess the Effect of Renal Denervation in Heart Failure with Preserved Ejection Fraction
T 8	<i>Yamrozik, June</i>	Imaging the PM/AICD patient; Is it Evolving into a Routine Procedure? An Evolutionary Report of our first 100 Patients.
T 9	<i>Yamrozik, June</i>	Imaging the PM/AICD patient; Is it beneficial to the final diagnosis?
T 10	<i>Wormleighton, Joanne</i>	CMR at 3.0T in Routine Clinical Practice - Tips and Tricks to Optimise Image Quality and Enhance Patient Flow
T 11	<i>Cao, Jian</i>	Feasibility study of a novel acquisition technique of cardiac cine magnetic resonance imaging in patients with atrial fibrillatio
T 12	<i>Norman, Wendy</i>	High throughput cardiac imaging in awake young children: Tips and Tricks

POSTERS

Thursday, February 5, 2015

6:00 PM – 7:00 PM POSTER SESSION 1 Not accredited for CME

You are invited to meet the poster authors of the following categories on Thursday evening during the Wine and Cheese Reception

Categories Being Presented In Poster Session 1 Are:

- Basic Translational – New Techniques Ready for Clinical Application
- Basic Translational – Post-Processing and Workflow
- Basic Translational – Pre-Clinical Validation of Existing Technique
- CAD Ischemia and Viability
- CAD Other

Friday, February 6, 2015

12:30 PM – 1:30 PM POSTER SESSION 2 Not accredited for CME

You are invited to meet the poster authors of the following categories on Friday during the break for lunch

CATEGORIES BEING PRESENTED IN POSTER SESSION 2 ARE:

- Clinical Outcome and Prognosis
- Congenital Heart Disease
- Cost Effectiveness and Comparison to Other Modalities
- EP and Interventional Applications
- Metabolism, Spectroscopy, and Hyperpolarized MRI

Saturday, February 7, 2015

12:00 PM – 1:00 PM POSTER SESSION 3 Not accredited for CME

You are invited to meet the poster authors of the following categories on Saturday during the break for lunch

CATEGORIES BEING PRESENTED IN POSTER SESSION 3 ARE:

- Molecular Imaging; Contrast Agents
- Non-Ischemic Heart Disease – Primary and Secondary CMP
- Non-Ischemic Heart Disease – Other
- Rapid, Efficient Imaging
- Vascular MRI

POSTER DIRECTORY



BASIC TRANSLATIONAL - NEW TECHNIQUES READY FOR CLINICAL APPLICATION

P 001	<i>Zhou, Zhengwei</i>	First-Pass Perfusion CMR with Reduced Dark-Rim Artifact and Instantaneous Image Reconstruction Using Optimized Cartesian Sampling and Apodization
P 002	<i>Schmidt, Michaela</i>	Multi-Contrast Scar CINE: Sparsely sampled Real-Time Inversion-Recovery bSSFP CINE combined with Iterative Reconstruction and Motion Propagation
P 003	<i>Fernandes, Juliano</i>	Accuracy and feasibility of a free-breathing cine technique sparsely sampled with iterative reconstruction for rapid evaluation of left ventricular function in adults and children
P 004	<i>Bhuva, Anish</i>	Precision and reproducibility of blood T1 estimation: implications of T1 star on ECV calculation.
P 005	<i>Rao, Anupama</i>	Variability of T1 in Purpose Recruited Normal Volunteers and Patients as a Function of Shim (B0), Flip Angle (B1) and Myocardial Sector at 3T
P 006	<i>Evin, Morgane</i>	Left atrium dysfunction by CMR in aortic valve stenosis
P 007	<i>Stoll, Victoria</i>	Reproducibility and variability of left ventricular 4D flow in healthy volunteers.
P 008	<i>Bulluck, Heerajnarain</i>	Quantification of the area-at-risk by T1 and T2 mapping CMR at 3T
P 009	<i>von Knobelsdorff-Brenkenhoff, Florian</i>	Detailing the role of parametric T1- and T2-mapping for differentiation of acute and chronic myocardial infarction
P 010	<i>Phinikaridou, Alkystis</i>	Multi-sequence non-contrast MRI characterization of deep vein thrombosis in man
P 011	<i>Bhuva, Anish</i>	Clinical application of MOLLI T1* for extracellular volume calculation in healthy volunteers and aortic stenosis
P 012	<i>Maceira, Alicia</i>	Reference values for regional and global myocardial T2 mapping with cardiovascular magnetic resonance at 1.5T and 3T
P 013	<i>Klix, Sabrina</i>	On the Subjective Acceptance during Cardiovascular Magnetic Resonance Imaging at 7.0 Tesla
P 014	<i>Fenster, Brett</i>	Left Ventricular Vorticity is Marker of Ventricular Interdependency in Pulmonary Arterial Hypertension
P 015	<i>Froeling, Martijn</i>	Whole heart DTI using asymmetric bipolar diffusion gradients
P 016	<i>Mekkaoui, Choukri</i>	Infarct Delineation in Patients with Acute Myocardial Infarction Using the Tractographic Propagation Angle and Late Gadolinium Enhancement
P 017	<i>PERDRIX, Ludivine</i>	3D Myocardial Wall Stress assessed by Cardiac Magnetic Resonance and non invasive aortic blood pressure in patients with severe aortic valve stenosis
P 018	<i>Avery, Ryan</i>	Comparison of Image Quality and Acquisition Time of Free-Breathing (FB) Motion Corrected (MOCO) SSFP to Current PSIR sequences: Is One Sequence Superior?
P 019	<i>Zemrak, Filip</i>	Quantification of the Relationship Between Two Cardiac Magnetic Resonance Techniques: Fast Gradient Echo and Steady-State Free Precession for Determination of Left Atrial Volumes.
P 020	<i>Kim, Pan-ki</i>	Respiratory motion navigated Look-Locker imaging for small animal myocardial T1 mapping
P 021	<i>Garg, Pankaj</i>	Assessment of interventricular systolic relationship and infarct location in acute myocardial infarction
P 022	<i>Han, Q. Joyce</i>	Accuracy and Reproducibility of T1rho Mapping Sequences

POSTER DIRECTORY

P 023	<i>Piechnik, Stefan</i>	Inversion time calculations have varying impact on short, intermediate and long MOLLI T1 values: implications for studies using T1-mapping sequences
P 024	<i>EIBaz, Mohammed S. M.</i>	Impact of disturbed diastolic vortex formation on viscous energy loss in the left ventricle: Quantitative 4D Flow MRI analysis of healthy controls and repaired atrioventricular septal defect patients
P 025	<i>Scott, Andrew</i>	Directions vs. averages: An in-vivo comparison for cardiac DTI
P 026	<i>Francois, Christopher</i>	Exercise Cardiac MR Assessment of Diastolic Function
P 027	<i>Zhu, Meng Yuan</i>	Fetal haemodynamic assessment in a case of late-onset intrauterine growth restriction by phase contrast MRI and T2 mapping
P 028	<i>Coats, Louise</i>	Variations in Right Atrial Flow Patterns in the Normal Heart A Potential Contributor to Cryptogenic Stroke in the setting of Patent Foramen Ovale
P 029	<i>Atweh, Lamya</i>	Comparison of Respiratory-Triggered (RT) 3D Cine Steady-State Free Precession Cardiac MRI with Standard 2D Cine Imaging and Magnetic Resonance Angiography in Congenital Heart Disease (CHD)
P 030	<i>Steding-Ehrenborg, Katarina</i>	Atrial and ventricular kinetic energy is higher in athletes compared to healthy controls and contributes to improve diastolic filling of the ventricles
P 031	<i>Muthurangu, Vivek</i>	Segmented whole body haemodynamic responses to a high calorie meal – a novel MR approach
P 032	<i>Gregory, T. Stan</i>	Rapid Quantification of Stroke Volume using Magnetohydrodynamic Voltages in 3T MRI: A Feasibility Study
P 033	<i>Satriano, Alessandro</i>	Multiplanar 4D strain analysis with spatial mapping to 3D LGE quantification: relationships in chronic Ischemic Cardiomyopathy.
P 034	<i>Nguyen, Christopher</i>	In Vivo Diffusion-Weighted MRI Detection of Myocardial Fibrosis in Hypertrophic Cardiomyopathy Patients
P 035	<i>Mazumder, Ria</i>	In-Vivo Waveguide Cardiac Magnetic Resonance Elastography
P 036	<i>Hedjazi Moghari, Mehdi</i>	High-resolution Whole-heart Angiography with Compressed Sensing and 3D Respiratory Motion Compensation in 5 Minutes
P 037	<i>Contijoch, Francisco</i>	Continuous adaptive radial sampling of k-space from real-time physiologic feedback in MRI
P 038	<i>Töger, Johannes</i>	Phantom validation of 4D flow: independent validation of vortex ring volume quantification using planar laser-induced fluorescence

BASIC TRANSLATIONAL - POST-PROCESSING AND WORKFLOW

P 039	<i>Garcia, Julio</i>	4D flow MRI of the aorta demonstrates age- and gender-related differences in aortic size and blood flow velocity in healthy subjects
P 040	<i>Dorniak, Karolina</i>	A novel tool for phase contrast MR-derived pulse wave velocity measurement - validation against applanation tonometry and phantom studies
P 041	<i>Tobon-Gomez, Catalina</i>	Standardised unfold map of the left atrium: regional definition for multimodal image analysis
P 042	<i>Charles, Roux</i>	CMR left atrial characterization in Cushing's syndrome: a feature tracking study.
P 043	<i>Goetschalckx, Kaatje</i>	Shared versus non-shared prepulse perfusion MR sequence in absolute myocardial perfusion quantification.
P 044	<i>Ananth Narayan, Srinivas</i>	Comparison of great artery dimensions in 3-D Dual-phase SSFP, compared with 3D CE-MRA and Phase-contrast imaging (Magnitude image)
P 045	<i>Broadbent, David</i>	Comparison of Non-Linearity Correction Methods for Quantitative Myocardial Perfusion MRI
P 046	<i>Tao, Qian</i>	Myocardial Scar Surface Area Identified by LGE MRI is an Independent Predictor of Mortality in Post-Infarction Patients
P 047	<i>Ibrahim, El-Sayed</i>	Detection of LV Function Abnormality Using Temporal Patterns of Normalized Wall Thickness
P 048	<i>Kantasis, Georgios</i>	Simulating MR imaging for the human embryonic heart
P 049	<i>Child, Nicholas</i>	T1 values by conservative septal postprocessing approach are superior in relating to the interstitial myocardial fibrosis: findings from patients with severe aortic stenosis
P 050	<i>Biglands, John</i>	A comparison of dual-bolus and dual-sequence quantitative myocardial perfusion techniques
P 051	<i>Javed, Ahsan</i>	Motion correction facilitates the automation of cardiac ASL perfusion imaging.
P 052	<i>Bidhult, Sebastian</i>	A new validated T2* analysis method with certainty estimates for cardiac and liver iron load determination.
P 053	<i>Moghaddam, Abbas</i>	Effect of segmentation of k-space in SSFP flow artifacts
P 054	<i>Suzuki, Munemura</i>	A qualitative and quantitative assessment of cardiac cine Phase contrast MRI: comparison of image quality between 2D and 3D acquisition
P 055	<i>Bricq, Stéphanie</i>	Segmentation of compacted and non compacted left ventricular mass with a semi-automatic method
P 056	<i>Rosmini, Stefania</i>	Performance of automated ECV maps versus conventionally calculated ECV

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P 057	<i>Almutairi, Haifa</i>	A comparison of cardiac motion analysis software packages: application to left ventricular deformation analysis in hypertensive patients
P 058	<i>Goetschalckx, Kaatje</i>	Cardiac magnetic resonance dual bolus myocardial perfusion quantification superior to the single bolus analysis method.
P 059	<i>Calkoen, Emmeline</i>	Disturbed Left Ventricular inflow and ejection pattern in corrected atrioventricular septal defect patients assessed by 4DFlow MRI and particle tracing.
P 060	<i>Peters, Dana</i>	Simulations for Determining the Optimal Enhancement Ratio Threshold for Segmentation of Left Atrial Fibrosis
P 061	<i>Marchesseau, Stephanie</i>	Comparison of Four Short Axis Cine Acquisition Protocols for the Evaluation of Left Ventricular Cardiac Function
P 062	<i>Ibrahim, El-Sayed</i>	Estimation of Eulerian Strain from Tagged CMR Images using Band-pass Optical Flow and HARP
P 063	<i>Tavolaro, Sébastien</i>	Feasibility and comparison of left ventricular ejection flow acceleration recorded by cardiac magnetic resonance in patients with dilated cardiomyopathy: a case-control study
P 064	<i>Dubin, Brian</i>	Cardiac MR reliably identifies patients with clinically significant left ventricular noncompaction using a novel mass quantification technique
P 065	<i>Nickander, Jannike</i>	Background phase correction in phase contrast velocity encoded CMR reduces gender differences and improves the accuracy and precision of Qp/Qs
P 066	<i>Kowallick, Johannes</i>	Quantification of Left Atrial Strain and Strain Rate using Cardiovascular Magnetic Resonance Myocardial Feature Tracking
P 067	<i>Hussaini, Syed</i>	Left and right ventricular kinetic energy using time-resolved versus time-average ventricular volumes
P 068	<i>Tufvesson, Jane</i>	Validation and development of a new automatic algorithm for time resolved segmentation of the left ventricle in magnetic resonance imaging

BASIC TRANSLATIONAL - PRE-CLINICAL VALIDATION OF AN EXISTING TECHNIQUE

P 069	<i>Camargo, Gabriel</i>	Initial Experience with a Cardiac Multi-Contrast Real-Time Cine Prototype Integrating Sparse Sampling and Iterative Reconstruction
P 070	<i>Gabbert, Dominik Daniel</i>	Comprehensive fluid dynamic quantification in congenital heart disease - Introduction of a new software tool -
P 071	<i>Yang, Lin</i>	Monitoring the Progression of Atherosclerotic Plaque and Disruption with Contrast-enhancement MR Imaging: An Experimental Study
P 072	<i>Bietenbeck, Michael</i>	External targeted navigation of ultra-small iron-oxide (U/SPIO) nanoparticles by an external permanent magnet – proof-of-principle as a prerequisite for magnetic drug delivery using U/SPIO
P 073	<i>Inage, Akio</i>	Impacts of Right Ventricular Trabeculae and Papillary Muscles on Volumes and Function Assessed by Cardiovascular Magnetic Resonance Using a Novel Software: Semi-automatic Threshold-based Segmentation Algorithm
P 074	<i>van Ooij, Pim</i>	Reproducibility and inter-observer variability of velocity and 3D wall shear stress derived from 4D flow MRI in the healthy aorta
P 075	<i>Moghaddam, Abbas</i>	Estimation of the Flow Motion in SSFP Images Using Moving shadows; Reliable or Not?
P 076	<i>Stoeck, Christian</i>	Direct comparison of in-vivo and post-mortem spin-echo based diffusion tensor imaging in the porcine heart
P 077	<i>Tantongco, John-Paul</i>	Comparison of GLS via echocardiography and tissue tracking by Cardiac Magnetic Resonance Imaging
P 078	<i>Hamlet, Sean</i>	Patient-specific variability in breath-hold positions during cardiac magnetic resonance imaging has a negligible effect on measures of cardiac mechanics
P 079	<i>Maksuti, Elira</i>	Hydraulic forces contribute to left ventricular diastolic filling
P 080	<i>Garg, Pankaj</i>	T2-mapping and T2*-mapping for detection of intramyocardial haemorrhage: a head-to-head comparison with T2-weighted imaging
P 081	<i>Stoeck, Christian</i>	Second Order Motion Compensated Spin-Echo Diffusion Tensor Imaging of the Human Heart
P 082	<i>Naresh, Nivedita</i>	Cardiac MR Detects the Progression of Impaired Myocardial Perfusion Reserve in a Mouse Model of Obesity-Related Cardiomyopathy
P 083	<i>Zhang, Huan</i>	Evaluate the Effects of Statins on Myocardial Remodeling in ApoE ^{-/-} Mice at 3T Cardiac Magnetic Resonance

CAD ISCHEMIA AND VIABILITY

P 084	<i>Klem, Igor</i>	Sources of variability in quantification of CMR infarct size and their impact on sample size calculations - reproducibility among three core laboratories.
P 085	<i>Henningsson, Markus</i>	Coronary MR Angiography in patients with coronary artery disease using image-based respiratory motion compensation

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P 086	<i>Steel, Kevin</i>	Cardiovascular Effects and Tolerance of Adenosine versus Regadenoson during Cardiac MRI Perfusion Testing
P 087	<i>Giusca, Sorin</i>	Prediction of functional recovery by cardiac magnetic resonance feature tracking imaging in first time ST-elevation myocardial infarction. Comparison to infarct size and transmuralty by late gadolinium enhancement.
P 088	<i>Gotschy, Alexander</i>	Fusion of 3D-CMR-perfusion with 3D-MR-coronary angiography
P 089	<i>Jablonowski, Robert</i>	<i>withdrawn</i>
P 090	<i>Engblom, Henrik</i>	Design of clinical cardioprotection trials using CMR: Impact of myocardial salvage index and a narrow inclusion window on sample size
P 091	<i>Bryant, Jennifer</i>	Early clinical experience with 'splenic switch-off' in adenosine stress CMR
P 092	<i>Lighton, Alice</i>	Splenic switch-off, a potential novel marker of lack of adenosine response: relationship to heart rate response and demographic factors
P 093	<i>Biglands, John</i>	Quantitative myocardial perfusion performs as well as visual analysis in diagnosing myocardial ischaemia: A CE-MARC sub-study
P 094	<i>Patel, Mita</i>	Diagnostic Performance of Regadenoson Stress CMR for Detection of Coronary Artery Disease
P 095	<i>Buckert, Dominik</i>	Total Ischemic Myocardium is a Powerful Predictor for Adverse Cardiac Events
P 096	<i>Parikh, Kalindi</i>	Regadenoson Stress Induced Wall Motion Abnormalities during Cardiac MRI
P 097	<i>Bizino, Maurice</i>	Free-breathing 3D phase-sensitive inversion recovery late gadolinium enhancement at 3.0 Tesla: reliability and image quality in ischemic and non-ischemic cardiomyopathy in comparison with multiple breath-hold 3D imaging
P 098	<i>Dyckmanns, Nils</i>	Which cardiac magnetic resonance parameters predict outcome in acutely reperfused Non-ST-elevation myocardial infarction?
P 099	<i>Fuernau, Georg</i>	Impact of Oxidative Stress on Myocardial Damage Visualized by Cardiac Resonance Imaging in Acute ST-Elevation Myocardial Infarction
P 100	<i>Fair, Merlin</i>	Through-plane dark-rim artefacts in 3D first-pass myocardial perfusion
P 101	<i>Tahir, Enver</i>	Serial native T1- and T2-mapping to quantitatively monitor resorption of myocardial edema following acute myocardial infarction
P 102	<i>Khan, Jamal</i>	Comparison of cardiovascular magnetic resonance feature tracking and tagging for the assessment of left ventricular systolic strain in acute myocardial infarction
P 103	<i>PHAM, MINH</i>	Assessment of Myocardial Blood Flow, Viability and Diffuse Fibrosis in Patients after Arterial Switch and Ross Operation with Magnetic Resonance Imaging
P 104	<i>Mangion, Kenneth</i>	Left ventricular outcomes following multivessel PCI vs. infarct artery-only PCI in patients with acute STEMI: the Glasgow PRAMI CMR sub-study.
P 105	<i>Sörensson, Peder</i>	Myocardium at risk quantified by contrast enhanced steady-state free precession does not differ in extent or severity when comparing patients with ST-elevation myocardial infarction treated with standard reperfusion or postconditioning
P 106	<i>Ibrahim, El-Sayed</i>	Fully-automatic Synthesis of Cine Viability CMR Images with Minimal Estimation Error
P 107	<i>Liu, Alexander</i>	Myocardial T1 Responds to Adenosine – Normal Values of Stress T1 Reactivity at 1.5T and 3T
P 108	<i>Luecke, Christian</i>	Preliminary Results of Synchronous Acquired PET/MRI for Viability Assessment in Patients with Reduced Cardiac Function prior Revascularization.
P 109	<i>Lee, Seung-Ah</i>	Prognostic Value of Late Gadolinium Enhanced MRI in Patients Underwent Coronary Artery Bypass Graft Surgery; Long term follow up data
P 110	<i>Range, Felix</i>	Feasibility and results of acute cardiac stress MRI with regadenoson for risk stratification of COPD-patients with NSTEMI
P 111	<i>Ghugre, Nilesh</i>	Hemorrhage contributes to chronic adverse remodeling in acute myocardial infarction: Insights from a novel preclinical model
P 112	<i>Sinn, Martin</i>	Ability of extracellular volume imaging to serially measure infarct size compared to LGE within six months after acute myocardial infarction
P 113	<i>Allen, Bradley</i>	Stress Perfusion Cardiac MRI with Regadenoson and Gadofoveset Trisodium
P 114	<i>Gerbay, Antoine</i>	Prediction of recovery after revascularization in chronic Coronary Total Occlusion (CTO) patients. Adenosine or low-dose dobutamine stress with LGE CMR: which is the best combination?
P 115	<i>Illindala, Uday</i>	Cardiac MRI Detection of Infarct Size Reduction with Hypothermia in Porcine Ischemia Reperfusion Injury Model
P 116	<i>Parnham, Susie</i>	Myocardial Oxygenation is Impaired in Advanced Chronic Kidney Disease and Renal Transplant Patients
P 117	<i>Kidambi, Ananth</i>	Clinical validation of susceptibility-weighted cardiovascular magnetic resonance in comparison to T2 and T2* imaging for detection of intramyocardial hemorrhage following acute myocardial infarction

POSTER DIRECTORY

P 118	<i>Roghi, Alberto</i>	Evidence of Non-Transferrin-Bound Iron in patients with ST-elevation Myocardial Infarction: relationship with microvascular obstruction and post-reperfusion myocardial hemorrhage.
P 119	<i>Hedeer, Fredrik</i>	Head-to-head comparison of myocardial perfusion SPECT and CMR for assessment of myocardial ischemia.
P 120	<i>Nezafat, Maryam</i>	A Segmented Modified Look-Locker Inversion Recovery (MOLLI) Sequence for High Heart Rate T1 Mapping of Mice
P 121	<i>Palazzuoli, Alberto</i>	The impact of infarct size on regional and global left ventricular systolic function: a cardiac magnetic resonance imaging study.
P 122	<i>Koulourodias, Marinos</i>	Splenic switch-off, a potential novel marker of lack of adenosine response: prevalence and measurement reproducibility
P 123	<i>Goetschalckx, Kaatje</i>	Lower myocardial stress perfusion in infarct-adjacent than in remote myocardium four months after revascularized myocardial infarction.
P 124	<i>Ghosh Dastidar, Amardeep</i>	Safety, tolerability and feasibility of adenosine stress CMR in high-risk patients
P 125	<i>Mayr, Agnes</i>	Exercise stress CMR in patients with coronary heart disease - preliminary results
P 126	<i>McAlindon, Elisa</i>	Timing of post contrast T1 values affects the extracellular volume fraction in ST segment elevation myocardial infarction
P 127	<i>Feistritzer, Hans-Josef</i>	Aortic stiffness as a predictor of high-sensitivity cardiac troponin T levels at a chronic stage after ST-segment elevation myocardial infarction
P 128	<i>Goetschalckx, Kaatje</i>	Lower myocardial perfusion in borderzones in the area at risk than out of the area at risk in acute myocardial infarction.
P 129	<i>Patel, Mita</i>	Semi-Quantitative Assessment of Resting Perfusion in Chronic Myocardial Infarction
P 130	<i>Sinn, Martin</i>	Development of cardiac remodeling in patients with acute myocardial infarction studied by cardiac MRI (CMR)
P 131	<i>Marques, Hugo</i>	Stress Cardiac MR beyond ischemia - prevalence and characterization of previously unknown incidental findings with potential clinical implications
P 132	<i>Chen, Xiuyu</i>	Mesenchymal stem cells improve cardiac function after myocardial infarction in rats without long-term survival: a serial 7.0T MRI study
P 133	<i>Douglas, Hannah</i>	Myocardial viability in preserved or mildly impaired left ventricular function prior to revascularization – findings from a 3 year experience
P 134	<i>Feistritzer, Hans-Josef</i>	Association of high-sensitivity cardiac troponin T concentrations with the left ventricular global function index after ST-segment elevation myocardial infarction
P 135	<i>Pershina, Ekaterina</i>	Delayed Dual-Energy CT (DECT) and conventional cardiac CT angiography (CCTA) in detection of chronic myocardial scar tissue: do we need delayed acquisition? Comparison with MRI.
P 136	<i>Al-Mallah, Mouaz</i>	Temporal Trends in the Referral Pattern to and Yield of Cardiac MRI: An Analysis from Saudia Arabia
P 137	<i>Khan, Tina</i>	Use of CMR imaging to assess the effect of Lipoprotein Apheresis in Patients with Refractory Angina and raised Lipoprotein(a)
P 138	<i>McAlindon, Elisa</i>	T2 values of the acutely infarcted myocardium following primary PCI: the relationship with infarct characteristics and gadolinium extracellular volume of distribution
P 139	<i>Nordlund, David</i>	The Extent of Myocardium at Risk for LAD, RCA and LCx using Contrast Enhanced SSFP and T2-weighted imaging
P 140	<i>Cole, Ben</i>	The impact of cardiac magnetic resonance viability assessment on the management of patients with ischaemic heart disease and left ventricular dysfunction

CAD OTHER

P 141	<i>Shaw, Jaime</i>	Native myocardial T1 is elevated in subjects with coronary microvascular dysfunction and no obstructive CADA
P 142	<i>Peters, Dana</i>	Left Atrial Function after Myocardial Infarction in Swine
P 143	<i>Pérez-David, Esther</i>	Assessment of regional and global left ventricular function with electromechanical mapping: validation against MRI. A PRECISE substudy.
P 144	<i>Adebo, Dilachew</i>	Magnetic Resonance Evaluation of Coronary Anatomy, First-pass myocardial perfusion and Late Gadolinium Enhancement in children with acquired and congenital heart disease
P 145	<i>Do, Hung</i>	Arterial Spin Labeling CMR Perfusion Imaging is Capable of Continuously Monitoring Myocardial Blood Flow during Stress
P 146	<i>Reinstadler, Sebastian</i>	Biomarkers of hemodynamic stress and aortic stiffness post-STEMI: A cross-sectional analysis
P 147	<i>Roifman, Idan</i>	Diabetes Mellitus is an Independent Predictor of Right Ventricular Dysfunction

POSTER DIRECTORY

P 148	<i>Shaw, Peter</i>	High resolution CMR perfusion imaging demonstrates reduced flow reserve and endo/epi ratio in microvascular coronary disease.
P 149	<i>Siddiqi, Nishat</i>	The impact of methodological and temporal variation on infarct size quantification in acute myocardial infarction with late enhancement CMR
P 150	<i>Zia, Mohammad</i>	Prognostic Value of Myocardial T2 Mapping Post Reperfused Acute Myocardial Infarction
P 151	<i>Karwat, Krzysztof</i>	Left atrial contractile strain is the independent predictor of LV remodeling after ST-segment elevation myocardial infarction
P 152	<i>Capranzano, Piera</i>	Impact Of P2Y12-Mediated Platelet Reactivity On myocardial perfusion Of Patients with ST-Segment Elevation Myocardial Infarction Undergoing Primary Percutaneous Coronary Intervention: a Cardiac Magnetic Resonance study.
P 153	<i>Aldrovandi, Annachiara</i>	Diagnostic value of cardiac magnetic resonance imaging in patients with suspected acute myocardial infarction without significant coronary stenosis
P 154	<i>van der Pals, Jesper</i>	Temporal and Spatial Characteristics of the Area at Risk Investigated using Computed Tomography and T1-weighted Magnetic Resonance Imaging
P 155	<i>Heer, Tobias</i>	Positive effect of sublingual nitroglycerin on performance of non-contrast enhanced magnetic resonance coronary angiography
P 156	<i>Garg, Pankaj</i>	Is signal intensity of late gadolinium enhancement a substitute for extracellular volume mapping in acute myocardial infarction?
P 157	<i>Butzbach, Britta</i>	Role of myocardial scar on 30day outcome after TAVI
P 158	<i>MOHD AMIN, NOR HANIM</i>	Comprehensive Right Heart Systolic Function Assessment Using Cardiac Magnetic Resonance Imaging After Inferior ST Elevation Myocardial Infarction
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M 02	<i>Macdonald, Jacob</i>	MRI characterization of peripheral arterial chronic total occlusions at 7 Tesla with microCT and histologic validation
M 03	<i>Markl, Michael</i>	First-pass stress perfusion MR Imaging findings of apical hypertrophic cardiomyopathy: with relation to LV wall thickness and late Gadolinium-enhancement
M 04	<i>Jackson, Laurence</i>	Myocardial fibrosis detected with Gadolinium Delayed Enhancement in Cardiac Magnetic Resonance Imaging is related with ArterioVentricular Coupling alterations in patients with Acute Myocarditis.
M 05	<i>Zhang, Bing</i>	Appropriateness and Diagnostic Yield of Cardiac Magnetic Resonance Imaging from a Tertiary Referral Center in the Middle East
M 06	<i>Ainslie, Mark</i>	Asymmetric myocardial thickening in aortic stenosis
M 07	<i>Khanji, Mohammed</i>	Temporal and Spatial Characteristics of the Area at Risk Investigated using Computed Tomography and T1-weighted Magnetic Resonance Imaging
M 08	<i>Jakicic, John</i>	Quantification of Left Atrial Strain and Strain Rate using Cardiovascular Magnetic Resonance Myocardial Feature Tracking
M 09	<i>Lim, Jessie Mei</i>	Cardiac MRI vs. Myocardial 18F-FDG PET/CT in patients with Clinical Concern for Cardiac Sarcoid
M 10	<i>Zhou, Xiao</i>	Splenic switch-off, a potential novel marker of lack of adenosine response: prevalence and measurement reproducibility
M 11	<i>de Marvao, Antonio</i>	Cardiovascular Magnetic Resonance TE-Averaged Susceptibility Weighted Imaging of Reperfused Intramyocardial Hemorrhage
M 12	<i>Wong, James</i>	Reproducibility of Functional Aortic Analysis using MRI: The Multi-Ethnic Study of Atherosclerosis

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Q002	<i>Emmanuel Ako</i>	MR augmented cardiopulmonary exercise testing – a novel method of assessing cardiovascular function
Q003	<i>Borja Ibanez</i>	Myocardial native T1 relaxation times are highly dependent on the blood T1 values.
Q004	<i>Alexandru Fredriksson</i>	4D flow CMR can detect subtle right ventricular dysfunction in primary left ventricular disease
Q005	<i>Rohan Wijesurendra</i>	Systolic ShMOLLI T1-mapping is feasible in tachyarrhythmia, with improved image quality compared to diastolic readout
Q006	<i>Vincent Wu</i>	Global diastolic function in endurance athletes: three-dimensional volume tracking of the mitral annulus with cine-CMR.
Q007	<i>Adrienne Siu</i>	Characterization of the ultra-short echo time magnetic resonance (UTE MR) collagen signal associated with myocardial fibrosis
Q008	<i>Jeremy Collins</i>	Cardiac MR feature tracking identifies abnormal biventricular global strain values in biopsy-proven non-ischemic cardiomyopathies
Q009	<i>Johannes Riffel</i>	Standardized assessment of global longitudinal and circumferential strain – A modality independent software approach
Q010	<i>Philip Kilner</i>	Histology of human myocardial laminar microstructure and consideration of its cyclic deformations with respect to interpretation of in vivo cardiac diffusion tensor imaging
Q011	<i>Zixin Deng</i>	Reproducibility of Phase-Contrast MRI in the Coronary Artery: Towards Noninvasive Pressure Gradient Measurement and Quantification of Fractional Flow Reserve
Q012	<i>Britta Butzbach</i>	Detection of myocardial scar using T2* in a clinical setting

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Q013	<i>Sotirios Tsaftaris</i>	Dictionary learning for unsupervised identification of ischemic territories in CP-BOLD Cardiac MRI at rest
Q014	<i>Noor Ali</i>	Risk stratification of post-MI patients for ICD implantation using texture analysis to quantify heterogeneity of scar
Q015	<i>Adrienne Campbell-Washburn</i>	Positive contrast spiral imaging of a nitinol guidewire
Q016	<i>Michael Markl</i>	Impact of Cardiac Arrhythmia on Velocity Quantification by ECG gated Phase Contrast MRI
Q017	<i>Mikael Kanski</i>	Whole-heart 4D flow can be acquired with preserved quality without respiratory gating facilitating clinical use
Q018	<i>Florence PONTNAU</i>	Associations between native myocardial T1 and diastolic function evaluated by PC-CMR in patients with severe aortic valve stenosis
Q019	<i>Gerald Wisenberg</i>	Imaging of Post-Infarction Myocardial Inflammation with Hybrid FDG PET/MR: Feasibility and Preliminary Findings in a Canine Model
Q020	<i>Jan Paul</i>	Left Ventricular Motion Quantification Parameters from Tissue Phase Mapped MRI: Influence of Gender
Q021	<i>Junfei Lu</i>	Improved 2D slice-interleaved flow-independent cardiac black blood imaging using Ferumoxytol
Q022	<i>Zhe Wang</i>	The Effect of Free-breathing on Left Ventricular Rotational Mechanics in Normal Subjects and Patients with Duchenne Muscular Dystrophy
Q023	<i>Ee Ling Heng</i>	Pilot data of right ventricular myocardial T1 quantification by free-breathing fat-water separated dark blood saturation-recovery imaging
Q024	<i>Himanshu Gupta</i>	Left Ventricular Diastolic Dysfunction Index Based on Non-Invasive Measurements
Q025	<i>Michael Markl</i>	Real Time Flow Imaging in Atrial Fibrillation
Q026	<i>Shams Rashid</i>	Modified Wideband 3D Late Gadolinium Enhancement (LGE) MRI for Patients with Implantable Cardiac Devices
Q027	<i>Julio Sotelo</i>	3D quantification of hemodynamics parameters of pulmonary artery and aorta using finite-element interpolations in 4D flow MR data
Q028	<i>Shazia Hussain</i>	Quantitative assessment of myocardial mechanics in patients with cardiac amyloid using cardiovascular magnetic resonance myocardial feature tracking
Q029	<i>Aurelien BUSTIN</i>	Joint Denoising and Motion Correction: Initial Application in Single-Shot Cardiac MRI
Q030	<i>El-Sayed Ibrahim</i>	Evaluation of Ventricular Global Function from Tagged CMR Images
Q031	<i>Anca Florian</i>	Myocardial extracellular volume fraction (ECV) measurements based on T1-mapping in healthy monozygotic twins – another similarity or rather disagreement in twins?
Q032	<i>Shahryar Saba</i>	Characterization of cardiac masses with T1 mapping
Q033	<i>Daniel Giese</i>	In vitro evaluation of flow patterns and turbulent kinetic energy in trans-catheter aortic valve prostheses
Q034	<i>Zhe Wang</i>	Quantitative Left Ventricular Rotational Mechanics in Duchenne and Becker Muscular Dystrophy Patients
Q035	<i>Pierre Monney</i>	single breathhold, three-dimensional measurement of left atrial volume and function using sparse CINE CMR imaging with iterative reconstruction
Q036	<i>Peng Lai</i>	Sub-8-Minute Cardiac Four Dimensional Flow MRI using kat ARC and Variable Density Signal Averaging
Q037	<i>James Goldfarb</i>	Cardiovascular Magnetic Resonance TE-Averaged Susceptibility Weighted Imaging of Reperfused Intramyocardial Hemorrhage
Q038	<i>Emmeline Calkoen</i>	High-temporal velocity-encoded MRI for the assessment of left ventricular inflow propagation velocity: head-to-head comparison with Color M-mode echocardiography.
Q039	<i>Jennifer Keegan</i>	Inter-study reproducibility of interleaved spiral phase velocity mapping of renal artery haemodynamics
Q040	<i>Stephan Altmayer</i>	Increased reproducibility in RV mass measurement at end-systole

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Q041	<i>Jesse Hamilton</i>	Reducing scan time for calibration of through-time radial GRAPPA using PCA coil compression
Q042	<i>Markus Huellebrand</i>	Analysis of aortic blood-flow from ECG-free realtime PC MRI
Q043	<i>Gabriel Camargo</i>	Real-time Magnetic Resonance Cine Imaging with Sparse Sampling and Iterative Reconstruction for Ventricular Measures: Comparison with Gold-Standard Segmented Steady-State Free Precession
Q044	<i>J. Tim Marcus</i>	Increased native T1-values at the interventricular insertion regions of precapillary pulmonary hypertension patients
Q045	<i>Yang Yang</i>	Single breath-hold 3D LGE using stack of spiral trajectory
Q046	<i>Arash Haghikia</i>	Characterization of Peripartum Cardiomyopathy by cardiovascular magnetic resonance Imaging
Q047	<i>Jannike Nickander</i>	Native myocardial T1 precision is increased by correcting for myocardial blood variation
Q048	<i>Suzanne de Waha</i>	Impact of multivessel coronary artery disease on reperfusion success in patients with ST-elevation myocardial infarction - insights from cardiac magnetic resonance imaging
Q049	<i>Calvin Chin</i>	Asymmetric myocardial thickening in aortic stenosis
Q050	<i>Ify Mordi</i>	The Combined Incremental Prognostic Value of Left Ventricular Ejection Fraction, Late Gadolinium Enhancement and Global Circumferential Strain Assessed by Cardiovascular Magnetic Resonance
Q051	<i>Robert Jablonowski</i>	Regional adenosine-induced hypoperfusion without hyperenhancement on LGE-MRI in young HCM patients: comparison to subjects at risk of HCM and healthy volunteers
Q052	<i>David Carrick</i>	Pathophysiology of myocardial remodeling in survivors of ST-elevation myocardial infarction revealed by native T1 mapping: inflammation, remote myocardium and prognostic significance.
Q053	<i>Andrew Choi</i>	Clinical Impact of Cardiovascular Magnetic Resonance In Evaluation for Possible Arrhythmogenic Right Ventricular Dysplasia/Cardiomyopathy
Q054	<i>Lysann Reinhardt</i>	Diagnostic Performance of T1- and T2-Mapping in HTx Patients to identify Acute Cellular Rejection (ACR) in Comparison to Conventional CMR Techniques and Endomyocardial Biopsy (EMB) as the Standard of Reference
Q055	<i>Eylem Levelt</i>	Adenosine stress native T1 mapping detects microvascular disease in diabetic cardiomyopathy, without the need for gadolinium-based contrast
Q056	<i>Alessandro Satriano</i>	4-Dimensional Strain Imaging of the Right Ventricle: Application in Patients with Severe Pulmonary Hypertension
Q057	<i>Cassi Binkley</i>	Children with obesity have cardiac remodeling and dysfunction: a cine DENSE magnetic resonance imaging study
Q058	<i>Alejandro Roldán-Alzate</i>	Non – Invasive Right Ventricular Efficiency using 4D flow MRI
Q059	<i>Raymond Chan</i>	Late Gadolinium Enhancement Score (LGE-Score) for Prediction of Extensive Late Gadolinium Enhancement in Hypertrophic Cardiomyopathy
Q060	<i>Adelina Doltra</i>	Assessment of wall-shear stress pre and post renal sympathetic nerve denervation in patients with resistant hypertension
Q061	<i>David Chen</i>	Three Slice Myocardial Coverage using Non-ECG-Triggered Perfusion Imaging with Integrated T1 Mapping for Quantifying Myocardial Blood Flow
Q062	<i>Jan Bogaert</i>	Impact of active smoking on myocardial infarction severity in reperfused ST-segment elevation myocardial infarction patients. The smoker's paradox revisited by CMR
Q063	<i>Ananth Kidambi</i>	Myocardial extracellular volume estimation by CMR predicts functional recovery following acute myocardial infarction
Q064	<i>Masashi Nakamura</i>	Quantitative Circumferential Strain Analysis using ATP-Stress/rest 3-Tesla Tagged Magnetic Resonance to Evaluate Regional Contractile Dysfunction in Ischemic Heart Disease
Q065	<i>Ntobeko Ntusi</i>	Impaired myocardial perfusion in rheumatoid arthritis is associated with impaired strain, strain rate, disease activity and myocardial oedema: a cardiovascular magnetic resonance study

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Q066	<i>Jin Young Yoo</i>	First-pass stress perfusion MR Imaging findings of apical hypertrophic cardiomyopathy: with relation to LV wall thickness and late Gadolinium-enhancement
Q067	<i>Andreas Schuster</i>	Assessment of cardiovascular physiology using magnetic resonance myocardial stress testing reveals impaired contractile reserve in patients with cirrhotic cardiomyopathy
Q068	<i>Djeven Deva</i>	CMR demonstration of multiple morphological phenotypes in Anderson-Fabry disease
Q069	<i>Andreas Ochs</i>	LV rotational mechanics in patients with dilated cardiomyopathy compared to healthy individuals: Experience from the European CMR Registry
Q070	<i>Orly Goitein</i>	The Accuracy of Cardiac MRI in Differentiating between Intra Cardiac Tumors and Thrombi
Q071	<i>Ntobeko Ntusi</i>	Impaired myocardial perfusion is associated with extracellular volume expansion, disease activity and impaired strain and strain rate in systemic sclerosis: a cardiovascular magnetic resonance study
Q072	<i>Claire Raphael</i>	Wave intensity analysis and assessment of myocardial perfusion abnormalities in patients with hypertrophic cardiomyopathy
Q073	<i>Yumiko Kanzaki</i>	Low T2-star (T2*) Signals in Cardiac MR imaging in Patients with Dilated Cardiomyopathy and Sarcoidosis
Q074	<i>Eloisa Feliu</i>	Arrhythmogenic Cardiomyopathy. Let's have a closer look to the left ventricle: Report of our experience
Q075	<i>Constanze Merten</i>	Cardiac Involvement in Hypereosinophilic Syndromes Detected by Cardiac Magnetic Resonance Imaging
Q076	<i>Riikka Rydman</i>	Predicting atrial tachycardia and major cardiovascular events in adults with unrepaired Ebstein's anomaly of the tricuspid valve
Q077	<i>Christian Meierhofer</i>	Importance of hemodynamic RV and LV parameters and CPET-results in patients with Tetralogy of Fallot
Q078	<i>Julio Sotelo</i>	Pressure Gradient Prediction in Aortic Coarctation Using a Computational-Fluid-Dynamics Model: Validation against invasive pressure catheterization at rest and pharmacological stress.
Q079	<i>Inga Voges</i>	Evidence for aortopathy of the native descending aorta in children with hypoplastic left heart syndrome
Q080	<i>Nicholas Burris</i>	Aortic Stiffness with Bicuspid Aortic Valve Is Variable and Not Predicted By Conventional Parameters in Young Patients
Q081	<i>Shiraz Maskatia</i>	Improved Right Ventricular Outflow Tract Function in Patients with Tetralogy of Fallot after Infundibular Sparing Compared to Transventricular Repair
Q082	<i>Kai Laser</i>	Impact of Oxygen as a Vasodilator on Respiration-related Fontan Hemodynamics assessed by Real-time Phase-velocity MRI
Q083	<i>Anca Florian</i>	Cardiac abnormalities in patients with two different mitochondrial myopathy syndromes as detected by cardiovascular magnetic resonance imaging
Q084	<i>Shelby Kutty</i>	Abnormal Right Atrial Performance in Surgically Repaired Tetralogy of Fallot: The German Competence Network for Congenital Heart Defects Investigators
Q085	<i>Sigurdur Stephensen</i>	Factors determining exercise capacity in patients with atrial septal defect: assessment of heart function with CMR during dobutamine stress
Q086	<i>Sigurdur Stephensen</i>	Alterations in right ventricular pumping in patients with atrial septal defect at rest and during dobutamine stress
Q087	<i>Naira Mkrtchyan</i>	Collateral flow quantification by cardiovascular magnetic resonance during continuous submaximal exercise in patients with total cavo-pulmonary connection
Q088	<i>Gerald Greil</i>	Technical and anatomical factors affecting the size of the branch pulmonary arteries following first stage Norwood palliation for HLHS.
Q089	<i>Eugenie Riesenkampff</i>	Left ventricular extracellular volume is associated with loss of exercise tolerance in children after Tetralogy of Fallot repair, but not with ventricular dysfunction
Q090	<i>Anca Florian</i>	Differences in cardiac involvement between carriers of Duchenne and Becker muscular dystrophy – a cardiovascular magnetic resonance study

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Q091	<i>Abdullah AL Bulushi</i>	Analysis of RV components after reoperation of the right ventricular outflow tract in patients with Tetralogy of Fallot
Q092	<i>Shabnam Madadi</i>	Pulmonary artery end-diastolic forward flow as a predictor of Pulmonary valve replacement surgery complication in patients with tetralogy of fallot total correction
Q093	<i>Albert Hsiao</i>	Improved quantification of absolute and differential pulmonary flow with highly-accelerated 4D-PC MRI
Q094	<i>Magalie Ladouceur</i>	Atrio-ventricular coupling in patients with transposition of the great arteries after atrial switch by Magnetic Resonance Imaging.
Q095	<i>Attila Tóth</i>	Detecting trabecules of the systemic right ventricle during quantification yields better correlation with flow measurement derived data
Q096	<i>Ines Kristo</i>	Left ventricular remodeling in children and young adults with aortic coarctation two decades after surgical repair
Q097	<i>Alejandro Roldán-Alzate</i>	Kinetic Energy Efficiency of Single Ventricle and TCPC using 4D Flow MRI
Q098	<i>Tim Slesnick</i>	3D Contrast Enhanced Self Navigated Inversion Recovery Gradient Echo Coronary Imaging in Pediatric Patients
Q099	<i>Jimmy Lu</i>	Use of a 1.0 Tesla open scanner for cardiovascular magnetic resonance evaluation of pediatric and congenital heart disease
Q100	<i>Israel Valverde</i>	NT-proBNP as a biomarker of right ventricular dilatation and pulmonary regurgitation in Tetralogy of Fallot
Q101	<i>Pierluigi Festa</i>	Evaluation of Aorto-Pulmonary Collaterals in Glenn and Fontan Patients
Q102	<i>Anne Marie Valente</i>	Cardiac Magnetic Resonance Imaging Predictors of Atrial Arrhythmias in Patients with Repaired tetralogy of Fallot
Q103	<i>Joseph Camarda</i>	Co-Registered MR Tissue Phase Mapping and Speckle Tracking Echocardiography: Inter-Modality Comparison of Regional Myocardial Velocities in Pediatric Patients
Q104	<i>Gianluca Trocchio</i>	The right atrium value in patients operated for tetralogy of Fallot.
Q105	<i>Johannes Kowallick</i>	Noninvasive estimation of pulmonary outflow tract obstruction: A comparative study of phase contrast CMR and Doppler echocardiography versus cardiac catheterization.
Q106	<i>Ikechukwu (Ikay) Okafor</i>	A physiologic flow phantom for the evaluation of 4D flow MRI in the left ventricle
Q107	<i>Sean Hamlet</i>	The effect of respiratory gating strategy on left ventricular cardiac strains with DENSE
Q108	<i>Marcel Prothmann</i>	Cardiovascular Magnetic Resonance at 7.0 Tesla in Patients with Hypertrophic Cardiomyopathy - A Pilot Study
Q109	<i>Laura Iacuzio</i>	Initial Experience for First Pass Cardiac Perfusion with Iterative Reconstruction in Patients
Q110	<i>Gobinath Nadeshalingam</i>	The relationship of hemoglobin concentration and signal intensity changes in oxygenation-sensitive cardiovascular magnetic resonance imaging
Q111	<i>Alkystis Phinikaridou</i>	Increased vascular permeability is a surrogate marker of atherosclerotic plaque instability
Q112	<i>Constantin von Deuster</i>	A reference dataset of in-vivo human left-ventricular fiber architecture in systole and diastole
Q113	<i>Gergely Szantho</i>	Cardiac pre-load alteration with MRI-compatible lower body suction device
Q114	<i>Christopher Haggerty</i>	Left ventricular mechanical dysfunction in obesity is exacerbated during inotropic stress cine DENSE CMR in mice
Q115	<i>Tiago Teixeira</i>	Breathing maneuvers as a metabolic coronary vasodilator for first-pass perfusion MR imaging
Q116	<i>Mohamad Ghosn</i>	Examining the Relationship between Cardiac Troponin T and Cardiac Morphology, Function, and Fibrosis – A Cardiac Magnetic Resonance Study
Q117	<i>Archontis Giannakidis</i>	Transmural gradients of preferential diffusion motility in the normal rat myocardium characterized by diffusion tensor imaging

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Q118	<i>Jonathan Grabau</i>	Low encoding frequencies accurately quantify cardiac mechanics while minimizing phase wrapping in 2D cine DENSE with through-plane dephasing
Q119	<i>Morteza Mahmoudi</i>	In vivo multi-modality tracking of the regenerative effects of the human induced pluripotent stem cell-derived cardiomyocytes (iCMs)
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Seiberlich, Nicole: Dr. Seiberlich has received grant and/or research funding from Siemens Medical Solutions.

Shambrook, James: Dr. Shambrook has nothing to disclose.

Simonetti, Orlando: Dr. Simonetti has received grant and/or research funding from Cook Medical and Siemens Medical Solutions. He has an equity interest in EXCMR, Inc.

Simprini, Lauren: Dr. Simprini has nothing to disclose.

Sommer, Philipp: Dr. Sommer has received consulting fees and/or honoraria from Siemens Medical Solutions and St. Jude Medical. He has received grant and/or research funding from Imricor Medical Systems, Inc.

Sosnovik, David: Dr. Sosnovik has nothing to disclose.

Springer, Charles: Dr. Springer has nothing to disclose.

Stuber, Mathias: Dr. Stuber has nothing to disclose.

Taylor, Andrew: Dr. Taylor has received grant and/or research funding from Siemens Medical Solutions.

Thiele, Holger: Dr. Thiele has nothing to disclose.

Tweed, Katherine: Dr. Tweed has nothing to disclose.

Uribe, Sergio: Dr. Uribe has nothing to disclose.

Valsangiacomo, Emanuela: Dr. Valsangiacomo has nothing to disclose.

van Heeswijk, Ruud: Dr. van Heeswijk has nothing to disclose.

Viallon-Croisille, Magalie: Dr. Viallon-Croisille has received grant and/or research funding from CARESTREAM, Siemens Medical Solutions and SupersonicImagine.

Vogel-Claussen, Jens: Dr. Vogel-Claussen has nothing to disclose.

Volpe, Gustavo: Dr. Volpe has nothing to disclose.

Wassilew, Katharina: Dr. Wassilew has nothing to disclose.

Wedan, Steve: Dr. Wedan is an employee, receives a salary and has equity interest and/or stock options from Imricor Medical Systems, Inc.

Weingartner, Sebastian: Dr. Weingartner has nothing to disclose.

Wieben, Oliver: Dr. Wieben has nothing to disclose.

Wright, Graham: Dr. Wright has received research grants from GE Healthcare. He also receives royalty income from Circle Cardiovascular Imaging, Inc.

Xue, Hui: Dr. Xue has nothing to disclose.

Yang, Philip: Dr. Yang has nothing to disclose.

Yuan, Chun: Dr. Yuan has received consulting fees and/or honoraria from Bristol Myers Squibb Medical Imaging and Philips Healthcare. He has received research grants from Philips Healthcare.

Zemrak, Filip: Dr. Zemrak has nothing to disclose.

Zimmerman, Stefan: Dr. Zimmerman has nothing to disclose.

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Ennis, Daniel: Dr. Ennis has received research and/or grant funding from Siemens Medical Solutions.

Kellman, Peter: Dr. Kellman has nothing to disclose.

Messroghli, Daniel: Dr. Messroghli has nothing to disclose.

Nezafat, Reza: Dr. Zezafat has received speaking fees from Biosense Webster. He has received royalty income from Philips Healthcare and Samsung Electronics. He has received research grants from Medtronic, Samsung and Biosense Webster. He has intellectual property rights at Beth Israel Deaconess Medical Center and the NIH.

Robson, Matthew: Dr. Robson has nothing to disclose.

Salerno, Michael: Dr. Salerno has nothing to disclose.

Stuber, Matthias: Dr. Stuber has nothing to disclose.

Thompson, Richard: Dr. Thompson has nothing to disclose.

Wright, Graham: Dr. Wright has received research grants from GE Healthcare. He also receives royalty income from Circle Cardiovascular Imaging, Inc.

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Alpendurada, Fancisco: Dr. Alpendurada has nothing to disclose.

Arai, Andrew: Dr. Arai has received received research grants from Siemens Medical Solutions.

Arheden, Håkan: Dr. Arheden has received consulting fees and/or honoraria from Imacor AB. He has an equity interest in IMITS AB.

Bremerich, Jens: Dr. Bremerich has nothing to disclose.

Bruder, Oliver: Dr. Bruder has received consulting fees and/or honoraria from Biotronik, Novartis and Siemens Healthcare.

Bryant, Jennifer: Dr. Bryant has nothing to disclose.

FACULTY/ABSTRACT AUTHOR DISCLOSURES

Bucciarelli-Ducci, Chiara: Dr. Bucciarelli-Ducci has received consulting fees and/or honoraria from Circle Cardiovascular Imaging, Inc. She also is an expert witness for Brachers LLP.

Carr, James: Dr. Carr has received research grant and/or research funding from Siemens and Bayer. He has received speaking fees and/or honoraria from Siemens. He has received consulting fees and/or honoraria from Guerbet.

Chan, Carmen: Dr. Chan has nothing to disclose.

Choi, Byoung Wook: Dr. Choi has nothing to disclose.

Croiselle, Pierre: Dr. Croiselle has nothing to disclose.

de Roos, Albert: Dr. de Roos has nothing to disclose.

Deluigi, Christina: Dr. Deluigi has nothing to disclose.

Ennis, Daniel: Dr. Ennis has received research grants from Siemens Medical Solutions.

Ferrari, Victor: Dr. Ferrari is an officer or has a fiduciary role on the board of the American College of Cardiology.

Fletcher, Alison: Ms. Fletcher has nothing to disclose.

Francis, Jane: Ms. Francis has nothing to disclose.

Frank, Herbert: Dr. Frank has nothing to disclose.

Fratz, Sohrab: Dr. Fratz has received consulting fees and/or honoraria from Nano4Imaging.

Friedrich, Matthias: Dr. Friedrich has ownership/partnership or is a principal for Circle Cardiovascular Imaging, Inc. He has also received consulting fees and/or honorarias from Circle Cardiovascular Imaging, Inc.

Gerber, Bernhard: Dr. Gerber has nothing to disclose.

Greenwood, John: Dr. Greenwood has nothing to disclose.

Grosse-Wortmann, Lars: Dr. Grosse-Wortmann has nothing to disclose.

Hays, Allison: Dr. Hays has nothing to disclose.

Herzka, Daniel: Dr. Herzka has nothing to disclose.

Hussain, Tarique: Dr. Hussain has nothing to disclose.

Jacquier, Alexis: Dr. Jacquier has nothing to disclose.

Jagpal, Baljit: Dr. Jagpal has nothing to disclose.

Jenista, Elizabeth: Dr. Jenista has nothing to disclose.

Kawel-Boehm, Nadine: Dr. Kawel-Boehm has nothing to disclose.

Kellman, Peter: Dr. Kellman has nothing to disclose.

Kholmovski, Eugene: Dr. Kholmovski has received consulting fees and/or honoraria and research grants from Marrek, Inc. He also has an equity interest/stock in Marreck, Inc.

Kissinger, Kraig: Mr. Kissinger has nothing to disclose.

Kozerke, Sebastian: Dr. Kozerke has nothing to disclose.

Kramer, Christopher: Dr. Kramer has received consulting fees and/or honoraria from St. Jude Medical, Merck and Company, and MyoKardia. He has received research grants from Novartis and Siemens Healthcare.

Krishnamurthy, Rajesh: Dr. Krishnamurthy has received research grant funding from Koninklijke Philips Electronics.

Kutty, Shelby: Dr. Kutty has nothing to disclose.

Lawton, Chris: Dr. Lawton has nothing to disclose.

Lederman, Robert: Dr. Lederman has intellectual property rights with the National Institutes of Health.

Lombardi, Massimo: Dr. Lombardi has nothing to disclose.

Martin, Edward: Dr. Martin has received consulting fees and/or honoraria from Astellas Pharma. He has received grant and/or research funding from Medis Medical Imaging and Siemens Medical Solutions.

McCann, Gerald: Dr. McCann has nothing to disclose.

McConnell, Michael: Dr. McConnell has nothing to disclose.

Messroghli, Daniel: Dr. Messroghli has nothing to disclose.

Mohiaddin, Raad: Dr. Mohiaddin has nothing to disclose.

Moon, James: Dr. Moon has nothing to disclose.

Muthurangu, Vivek: Dr. Muthurangu has nothing to disclose.

Nezafat, Reza: Dr. Zezafat has received speaking fees from Biosense Webster. He has received royalty income from Philips Healthcare and Samsung Electronics. He has received research grants from Medtronic, Samsung and Biosense Webster. He has intellectual property rights at Beth Israel Deaconess Medical Center and the NIH.

Nielles-Vallespin, Sonia: Dr. Nielles-Vallespin has nothing to disclose.

O'Hanlon, Rory: Dr. O'Hanlon has nothing to disclose.

Ordovas, Karen: Dr. Ordovas has nothing to disclose.

Patel, Amit: Dr. Patel has received research and/or grant funding from Astellas Pharma and Philips Healthcare.

Petersen, Steffen: Dr. Petersen has received consulting fees and/or honoraria from Circle Cardiovascular Imaging, Inc.

Pitcher, Alex: Dr. Pitcher has nothing to disclose.

Plein, Sven: Dr. Plein has nothing to disclose.

Prasad, Sanjay: Dr. Prasad is on the Speaker's Bureau of Bayer Schering.

Raman, Subha: Dr. Raman has nothing to disclose.

Rathi, Vikas: Dr. Rathi has nothing to disclose.

Razavi, Reza: Dr. Razavi has nothing to disclose.

Reddy, Gautham: Dr. Reddy has nothing to disclose.

Robson, Matthew: Dr. Robson has nothing to disclose.

Roest, Arno: Dr. Roest has nothing to disclose.

Rogers, Ian: Dr. Rogers has nothing to disclose.

Salerno, Michael: Dr. Salerno has nothing to disclose.

Schaeffter, Tobias: Dr. Schaeffter has nothing to disclose.

Schwittler, Juerg: Dr. Schwittler has nothing to disclose.

Selvanagayam, Joseph: Dr. Selvanagayam has nothing to disclose.

Shah, Dipan: Dr. Shah has nothing to disclose.

Shanbhag, Sujata: Dr. Shanbhag has nothing to disclose.

Simonetti, Orlando: Dr. Simonetti has received grant and/or research funding from Cook Medical and Siemens Medical Solutions. He has an equity interest in EXCMR, Inc.

Soleimanifard, Sahar: Dr. Soleimanifard has nothing to disclose.

Steele, Kevin: Dr. Steele has nothing to disclose.

Stuber, Mathias: Dr. Stuber has nothing to disclose.

Taylor, Andrew: Dr. Taylor has received grant and/or research funding from Siemens Medical Solutions.

Thompson, Richard: Dr. Thompson has nothing to disclose.

Valsangiacomo, Emanuela: Dr. Valsangiacomo has nothing to disclose.

van Rossum, Albert: Dr. van Rossum has nothing to disclose.

Walkden, Michelle: Dr. Walkden has nothing to disclose.

Wendell, David: Dr. Wendell has nothing to disclose.

Westwood, Mark: Dr. Westwood has nothing to disclose.

Wilke, Norbert: Dr. Wilke has nothing to disclose.

Wright, Graham: Dr. Wright has received research grants from GE Healthcare. He also receives royalty income from Circle Cardiovascular Imaging, Inc.

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Cardiovascular Imaging Solutions develop CMRtools – a software package that is widely used for the viewing and analysis of cardiovascular magnetic resonance images. It provides a range of plug-in tools for specialized cardiovascular assessment including ventricular, TZ*, first pass perfusion and flow assessment.

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The EACVI (European Association of Cardiovascular Imaging) is a registered branch of the European Society of Cardiology (ESC). It is the largest multimodality imaging organization in the world and aims at promoting patient-centered use of imaging modalities, including CMR. Its objectives are excellence in clinical diagnosis research, technical development and education in cardiovascular imaging. More information on the EACVI stand at www.escardio.org/EACVI.

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Imricor Medical Systems**Booth# 8**

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Fax (952) 818-8401
Email info@imricor.com
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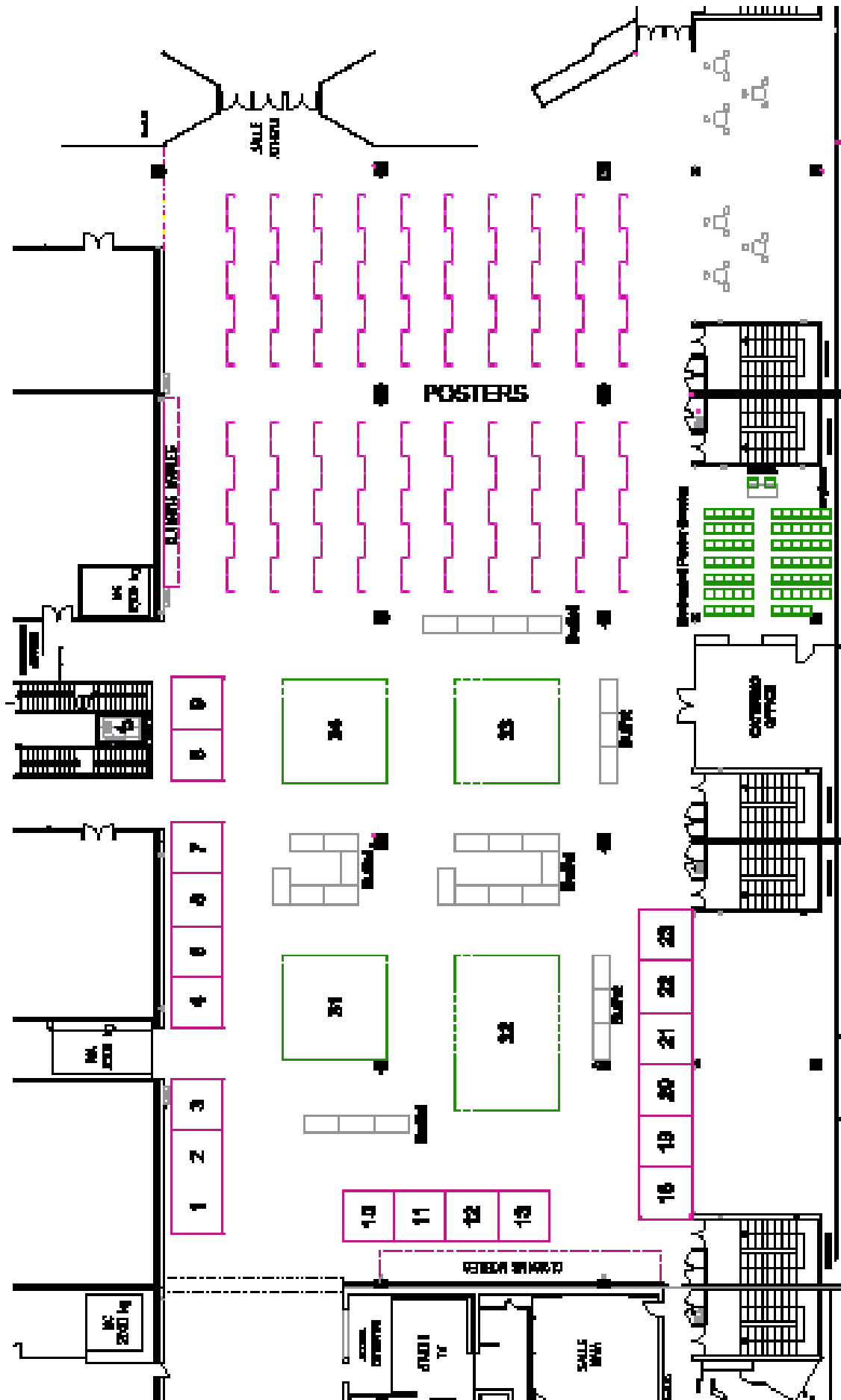
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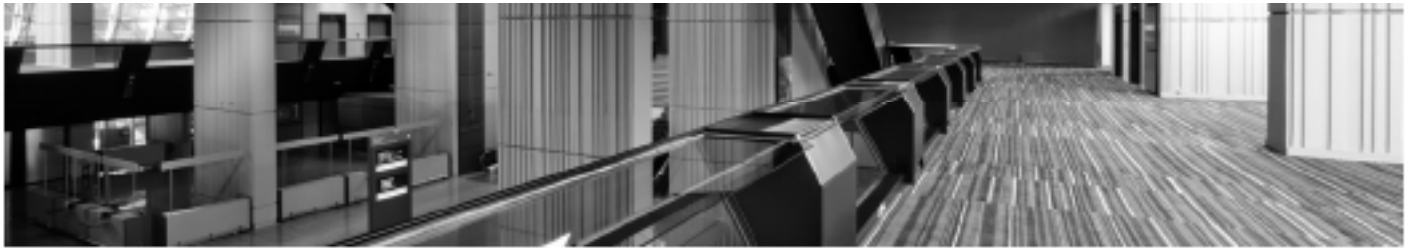
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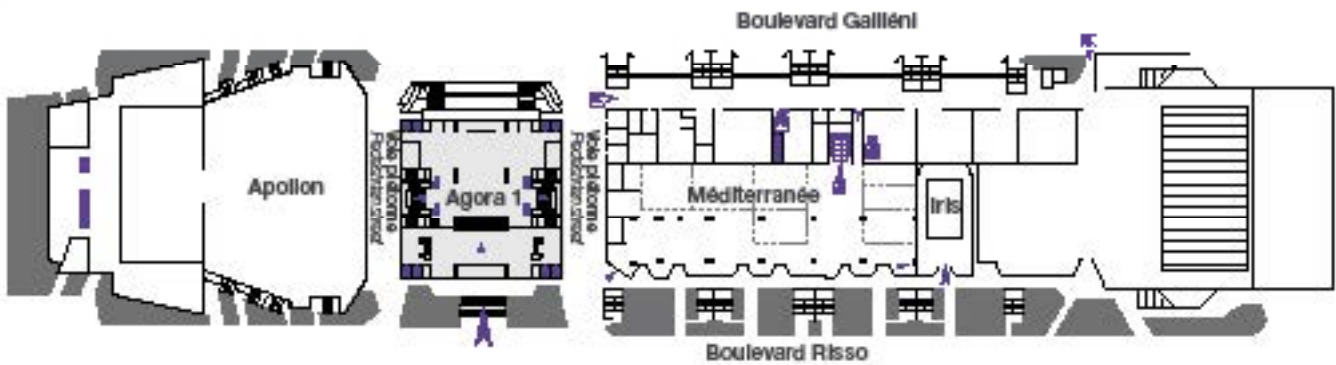
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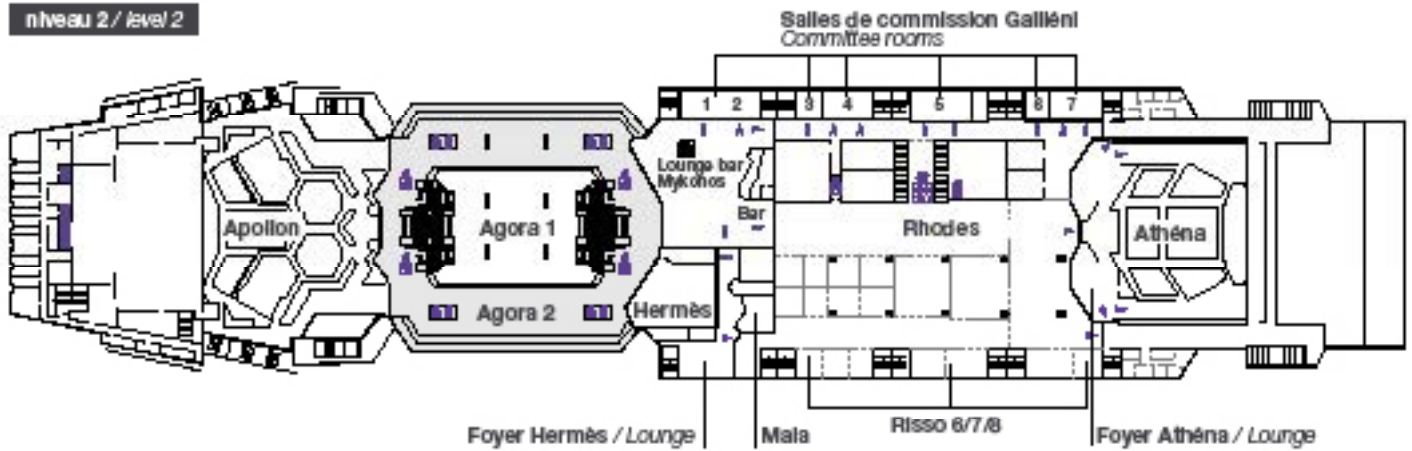
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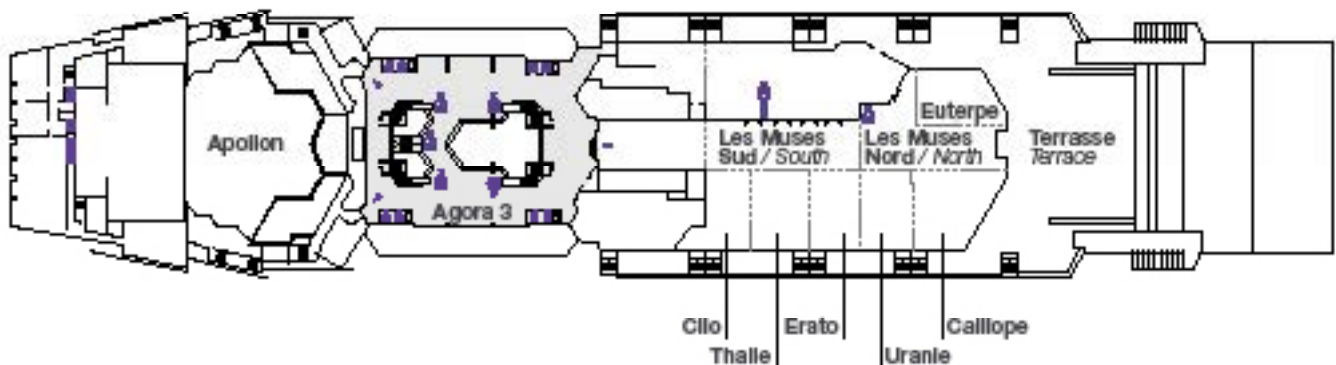
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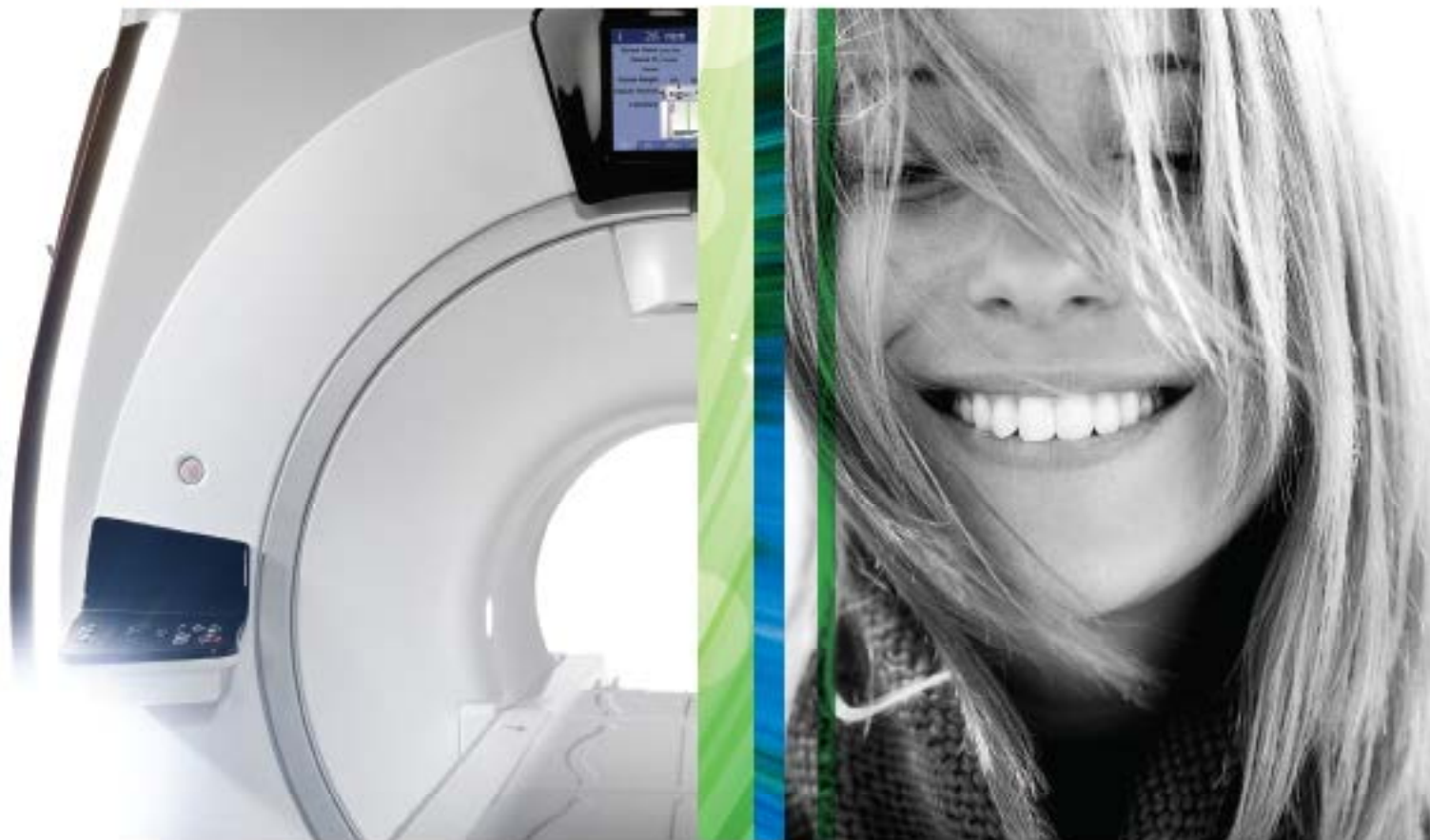
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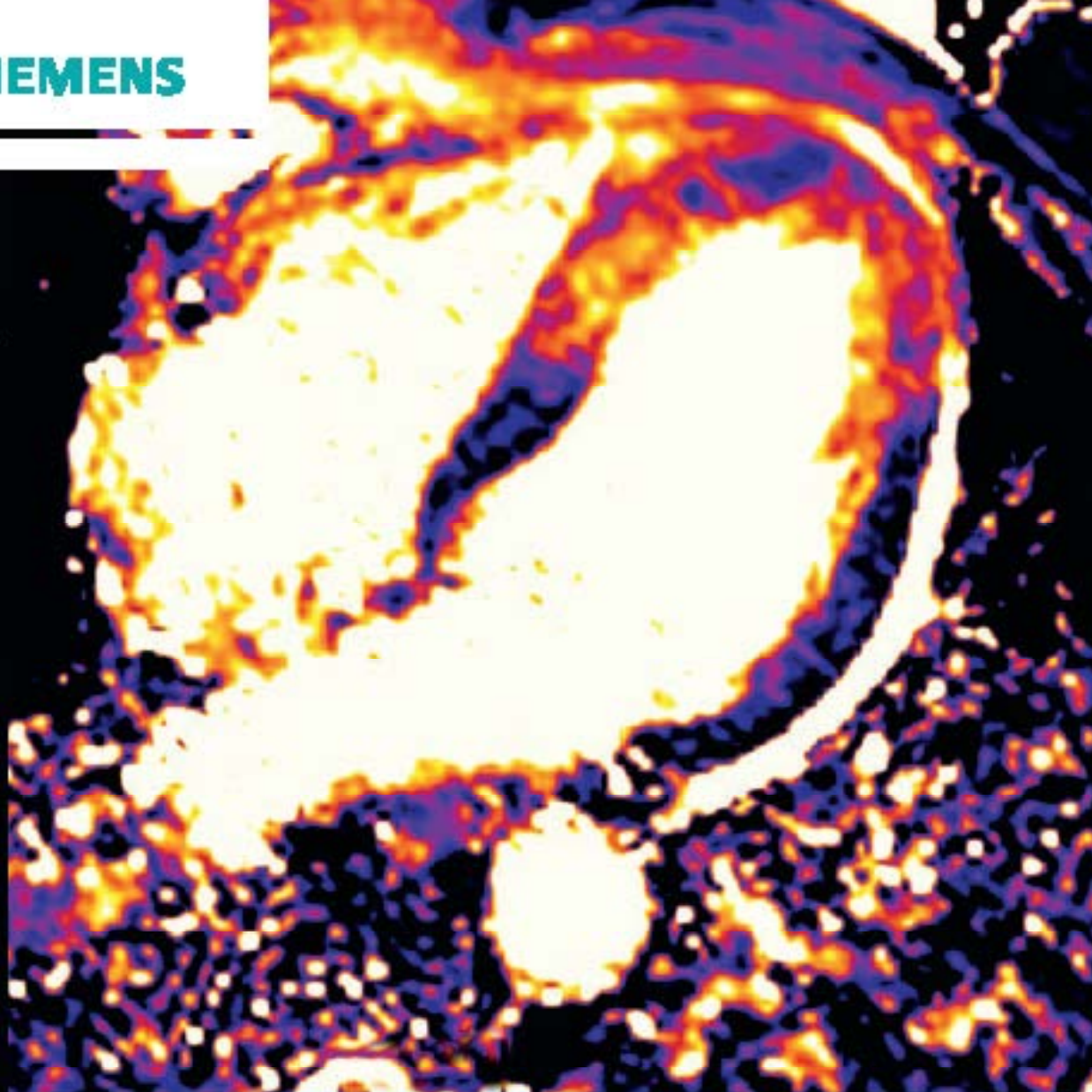
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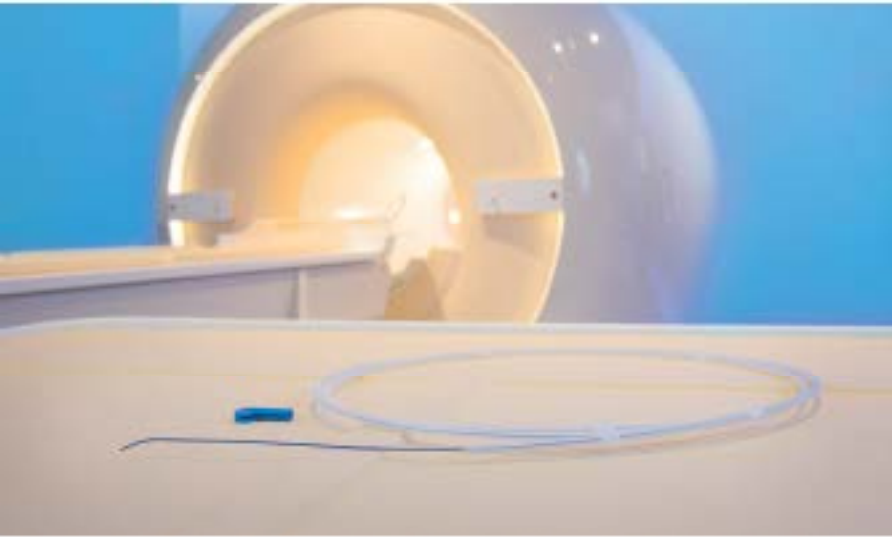
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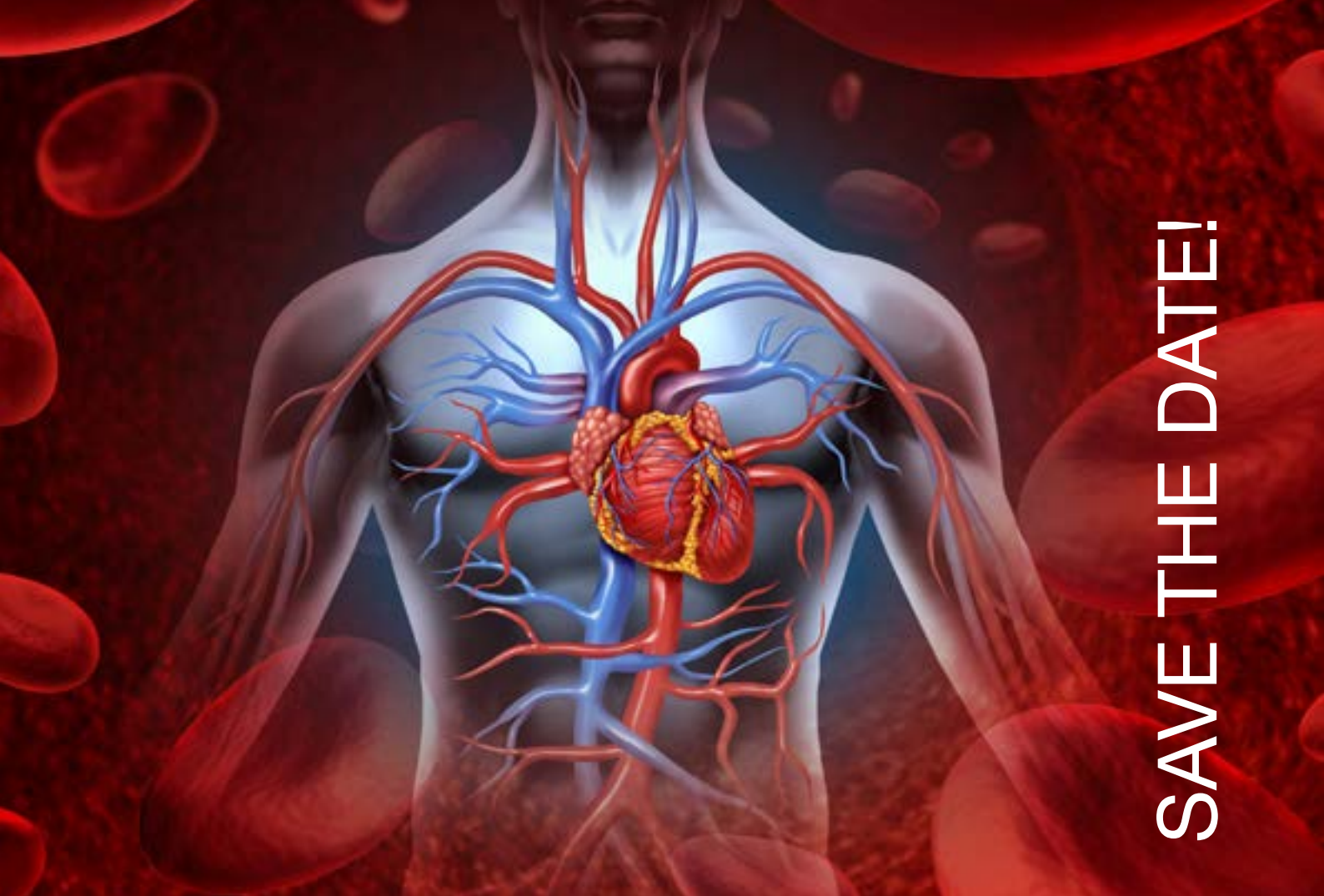
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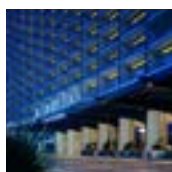
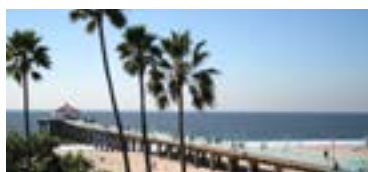
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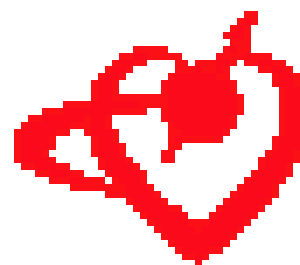


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