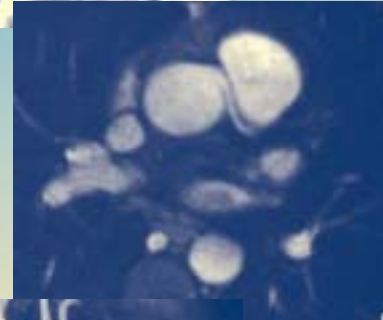


SCMR

*Society for
Cardiovascular
Magnetic
Resonance*



San Francisco

**Eighth Annual
Scientific Sessions
January 21 – 23, 2005
Hyatt Regency Embarcadero
San Francisco, CA**

FINAL PROGRAM BOOK

SOCIETY FOR CARDIOVASCULAR MAGNETIC RESONANCE

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SCMR Program Committee	Inside Front Cover
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WHO SHOULD ATTEND?

The intended audience consists of trainees and clinical practitioners in cardiology, cardiothoracic surgery, and cardiovascular radiology.

The Goals of the Conference are to:

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

ADMISSION TO THE SCIENTIFIC SESSIONS AND OTHER EVENTS

Your name badge is your admission ticket and will be required for access to all annual scientific sessions, including admission to the exhibit hall and the social event and will be included in your registration package. If you have registered for the Pre-Conference Physician Workshop or Technologist Workshop, additional tickets will be included in your registration package and will be required for access into the sessions. Please be sure to wear your name badge at all times.

REGISTRATION HOURS - *Grand Foyer*

Wednesday, January 19	6:00 PM – 9:00 PM
Thursday, January 20	6:30 AM – 7:00 PM
Friday, January 21	6:30 AM – 7:00 PM
Saturday, January 22	7:00 AM – 7:00 PM
Sunday, January 23	7:00 AM – 1:00 PM

EXHIBITS - *Pacific Concourse*

The Eighth Annual Scientific Sessions is expected to be another record setting event, providing educational and informational displays of instrumentation and pharmaceutical companies which will be available for viewing and interaction during the meeting.

EXHIBIT HALL HOURS

Friday, January 21	10:00 AM – 7:00 PM
Saturday, January 22	10:00 AM – 7:00 PM

SPEAKER READY ROOM - *Plaza Room*

The 2005 Program Committee is committed to providing cutting edge technology at the Annual Scientific Meeting with its use of complete AudioVisual Networking capabilities. This will enable each speaker to view/edit their presentation in the speaker ready room in advance and the changes to be available to them in their respective meeting room when they arrive. Each meeting room will have a networked desktop computer at the podium and each presentation will be virtually a click away. Please be sure to visit the speaker ready room 1 day prior to your presentation.

SPEAKER READY ROOM HOURS

Wednesday, January 19	6:00 PM – 9:00 PM
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Saturday, January 22	7:00 AM – 7:00 PM
Sunday, January 23	7:00 AM – 1:00 PM



ACKNOWLEDGMENTS

The Society for Cardiovascular Magnetic Resonance gratefully acknowledges the support of this meeting and its objectives, from the following companies

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MEDIS Medical Imaging Systems

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DESIGNATION STATEMENT

Pre-Conference Physicians Workshop

The University of Minnesota designates this educational activity for a maximum of **7.25** category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those hours of credit actually spent in the educational activity.

2005 Annual Scientific Sessions

The University of Minnesota designates this educational activity for a maximum of **18.0** category 1 credits toward the AMA Physician's Recognition Award. Each physician should claim only those hours of credit actually spent in the educational activity.

Technologists Workshop

The American Society of Radiological Technologists (ASRT) designates the Technologist Workshop for up to 13 hours in category A credit. Each registrant should claim only those hours of credit actually spent in the educational activity.

DISCLOSURE

"It is the policy of the University of Minnesota, Office of Continuing Medical Education to ensure balance, independence, objectivity and a scientific rigor in all its sponsored educational activities. All faculty participating in sponsored programs are expected to disclose to the program audience any real or apparent conflict of interest related to the content of their presentation."

ACCREDITATION STATEMENT

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the University of Minnesota and the Society for Cardiovascular Magnetic Resonance. The University of Minnesota is accredited by the ACCME to provide continuing medical education for physicians.

Physician Pre-conference Workshop Introduction to Cardiovascular MR

Thursday, January 20, 2005



SCMR
Society for Cardiovascular
Magnetic Resonance

		Grand Ballroom
8:00 AM-8:10 AM	Welcome Address Edward Martin, MD <i>Oklahoma Heart Institute, USA</i>	Joerg Barkhausen, MD, PhD <i>University Hospital Essen, Germany</i>
8:10 AM-9:50 AM	MR Physics <i>Moderators</i> Frederick H. Epstein, PhD <i>University of Virginia, USA</i>	Mark Doyle, PhD <i>Allegheny General Hospital, USA</i>
8:10 AM-8:30 AM	CMR Hardware (Scanner, ECG-Systems, Monitoring) Frederick H. Epstein, PhD <i>University of Virginia, USA</i>	
8:30 AM-8:50 AM	Sequences: Turbo Spin Echo Imaging Andre Duerinckx, MD, PhD <i>VA North Texas Healthcare Systems, USA</i>	
8:50 AM-9:10 AM	Sequences: Gradient Echo Imaging (Perfusion, Viability, Velocity Encoding) Mark Doyle, PhD <i>Allegheny General Hospital, USA</i>	
9:10 AM-9:30 AM	Sequences: SSFP-CINE MR Craig Meyer, PhD <i>University of Virginia</i>	
9:30 AM-9:50 AM	Sequences: MRA Matt Bernstein, PhD <i>Mayo Clinic, USA</i>	
9:50 AM-10:20 AM	Break	
10:20 AM-12:35 PM	How To Sessions <i>Moderators</i> Edward Martin, MD <i>Oklahoma Heart Institute, USA</i>	Robert Biederman, MD <i>Allegheny General Hospital, USA</i>
10:20 AM-10:35 AM	Basic Cardiac Exam Edward Martin, MD <i>Oklahoma Heart Institute, USA</i>	
10:35 AM-10:50 AM	LV and RV Function and Wall Motion Robert Biederman, MD <i>Allegheny General Hospital, USA</i>	
10:50 AM-11:05 AM	Dobutamine MRI W. Gregory Hundley, MD <i>Wake Forest University School of Medicine, USA</i>	
11:05 AM-11:20 AM	Myocardial Perfusion Nidal Al-Saadi, MD <i>Charite, Virchow-Clinic, Germany</i>	
11:20 AM-11:35 AM	Myocardial Viability (Hibernation, Stunning, Scar) Robert Judd, PhD <i>Duke University Medical Center, USA</i>	
11:35 AM-11:50 AM	Coronary Artery Imaging Torsten Sommer, MD <i>University of Bonn, Germany</i>	
11:50 AM-12:05 PM	Magnetic Resonance Angiography (Peripheral) Thomas Grist, MD, PhD <i>University of Wisconsin, USA</i>	

- 12:05 PM-12:20 PM** **Magnetic Resonance Angiography (Aorta)**
Martin Prince, MD
Weill Medical College of Cornell University, USA
- 12:20 PM-12:35 PM** **Panel discussion**
- 12:35 PM-2:00 PM** **Lunch**
- 2:00 PM-3:20 PM** **Tricks and Tips**
Moderators
Robert Judd, PhD **Krishna Nayak, PhD**
Duke University Medical Center, USA *University of Southern California, USA*
- 2:00 PM-2:20 PM** **Tissue Characterization Based On T1, T2 and Contrast Enhancement**
Walter J. Rogers, PhD
University of Virginia Health System, USA
- 2:20 PM-2:40 PM** **ECG Triggering (Different ECG Systems, Prospective, Retrospective, Self Gating)**
Hildo J. Lamb, PhD
Leiden University Medical Center, Netherlands
- 2:40 PM-3:00 PM** **Non Cooperative Patients and Arrhythmia: Real Time and Single Shot Imaging**
Krishna Nayak, PhD
University of Southern California, USA
- 3:00 PM-3:20 PM** **Resolution: Spatial, Temporal and Contrast, Parallel Acquisition Techniques**
Bernd Wintersperger, MD
University of Munich-Grosshadern Campus, Germany
- 3:20 PM-3:40 PM** **Break**
- 3:40 PM-5:40 PM** **Clinical Applications of CMR**
Moderators
Peter Buser, MD **Anthon Fuisz, MD**
University Hospital, Switzerland *Washington Hospital Center, USA*
- 3:40 PM-4:00 PM** **Congenital Heart Disease**
Philip Kilner, MD
Royal Brompton Hospital, United Kingdom
- 4:00 PM-4:20 PM** **Cardiac Masses**
Jan Bogaert, MD
University Hospitals, Belgium
- 4:20 PM-4:40 PM** **Valvular Heart Disease**
Ron Peshock, MD
UT Southwestern Medical Center, USA
- 4:40 PM-5:00 PM** **Acute and Chronic Myocardial Infarction**
Anthon Fuisz, MD
Washington Hospital Center, USA
- 5:00 PM-5:20 PM** **Cardiomyopathy and Myocarditis**
Ralf Wassmuth, MD
Humboldt University, Germany
- 5:20 PM-5:40 PM** **Myocardial Ischemia**
Peter Buser, MD
University Hospital, Switzerland

Program Agenda - Eighth Annual SCMR Scientific Sessions

Friday, January 21, 2005



8:00 AM-8:15 AM **Welcome Addresses** **Grand Ballroom**

Warren Manning, MD **Christopher Kramer, MD**
Beth Israel Deaconess Medical Center, USA *University of Virginia Health System, USA*

8:15 AM-10:30 AM **Parallel Session: Clinical Plenary Session I**

CONTROVERSIES IN CMR - STRESS AND VIABILITY **Grand Ballroom**

Moderators

Nathaniel Reichel, MD **Bob Hu, MD**
St. Francis Hospital, USA *Palo Alto Medical Foundation, USA*

8:15 AM-8:35 AM **Value of Rest Perfusion Imaging for the Detection of Ischemia or Infarction**
Rolf Gebker, MD
German Heart Institute, Germany

8:35 AM-8:55 AM **Effects of Acquisition and Analysis Order of Cine, Perfusion, and Viability Images on CAD Determination**
Igor Klem, MD
Duke University Medical Center, USA

8:55 AM-9:15 AM **How Should Cine, Perfusion, and Viability Data Be Combined to Yield a Positive/Negative Test for CAD?**
Raymond Kwong, MD
Brigham & Women's Hospital, USA

9:15 AM-9:35 AM **Is Viability Best Defined by Low Dose Dobutamine or Delayed Enhancement?**
W. Gregory Hundley, MD
Wake Forest University School of Medicine, USA

9:35 AM-9:55 AM **Is a Standardized Acquisition Protocol Needed for Delayed Enhancement Imaging?**
Andrew Arai, MD
NHLBI/National Institutes of Health, USA

9:55 AM-10:15 AM **What Should Be Offered For Routine Diagnosis of Myocardial Ischemia Today: Dobutamine Stress, Adenosine Perfusion, or Coronary Artery Imaging?**
Frank Rademakers, MD, PhD
University Hospitals Leuven, Belgium

10:15 AM-10:30 AM **Discussion**

10:30 AM-11:00 AM **Break**

8:15 AM-10:30 AM **Parallel Session: Basic Oral Abstracts**

THE CUTTING EDGE IN MOLECULAR MRI: NEW TARGETS AND RESULTS **Bayview**

Moderators

Matthias Stuber, PhD **Dwight Nishimura, PhD**
Johns Hopkins University, USA *Stanford University, USA*

8:15 AM - 8:30 AM **Introductory Talk**
Technical Advances in Cardiovascular Molecular MRI
Rene Botnar, PhD
Beth Israel Deaconess Medical Center, USA

8:30 AM - 8:40 AM **101 - Serial Quantification of Targeted Fumagillin Therapy using 3-Targeted Paramagnetic Nanoparticles in Early Atherosclerosis at 1.5T**
Patrick Winter

8:40 AM - 8:50 AM **102 - In Vivo Magnetic Resonance Imaging of Atherosclerotic Plaque Inflammation in Apolipoprotein E Deficient Mice**
David Sosnovik



- 8:50 AM - 9:00 AM** **103 - In vivo Thrombus Detection with Magnetic Resonance Imaging: A Comparative Study using a Fibrin-Targeted Contrast Agent and Gd-DTPA.**
Marc Sirol
- 9:00 AM - 9:10 AM** **104 - Spatial and Temporal Characterization of MRI Contrast Enhancement in Atherosclerotic Lesions with Gadolinium Texaphyrin Complexes**
Henning Steen
- 9:10 AM - 9:20 AM** **105 - CMR Detection of VCAM-1 Expression in Activated Human Endothelial Cells with Targeted SPIO Nanoparticles**
Szilard Voros
- 9:20 AM - 9:30 AM** **106 - Molecular MRI of Left Atrial Thrombi in a Swine Model Using EP-2104R**
Elmar Spuentrup
- 9:30 AM - 9:40 AM** **107 - Non-invasive In Vivo “Histology”: Visualizing Single Immune Cells in Acute Allograft Rejection after Heterotopic Heart Transplantation with Micrometer-sized Iron Oxide Containing Particles**
Yijun Wu
- 9:40 AM - 9:50 AM** **108 - Recombinant HDL-like Nanoparticles, a Specific Contrast Agent for MRI of Atherosclerotic Plaques**
Juan Frias
- 9:50 AM - 10:00 AM** **109 - Detection of Early Atherosclerotic Plaque in vivo by Gadofluorine M-Enhanced Magnetic Resonance Imaging**
Marc Sirol
- 10:00 AM - 10:10 AM** **110 - Detection of macrophage infiltration within atherosclerotic plaques as positive and negative contrast by USPIO MRI: ex vivo rabbit study**
Masahiro Terashima
- 10:10 AM - 10:20 AM** **111 - 3-Dimensional Quantification of Atherosclerotic Injury with MRI Molecular Imaging**
Tillmann Cyrus
- 10:20 AM - 10:30 AM** **112 - Intracellular Sodium MRI during Acute Regional Myocardial Ischemia and Reperfusion**
Maurits Jansen

10:30 AM-11:00 AM Break

11:00 AM-12:00 PM Oral Abstracts (3 Parallel Sessions)

CMR OF MYOCARDIAL ISCHEMIA: NEW PERSPECTIVES

Grand Ballroom A

Moderators

Susan Yeon, MD

Beth Israel Deaconess Medical Center, USA

Juerg Schwitter, MD

University Hospital Zurich, Switzerland

- 11:00 AM - 11:10 AM** **113 - Prognostic Value of High-dose Dobutamine Stress MRI in Coronary Artery Disease: Long-term Follow-up of Cardiac Events in Patients Not Undergoing Revascularization**
Oliver Bruder
- 11:10 AM - 11:20 AM** **114 - Abnormal Rest Cardiac MR Perfusion Identifies Hibernating Myocardium in a Porcine Model of Chronic Myocardial Ischemia**
Evan Appelbaum
- 11:20 AM - 11:30 AM** **115 - Myocardial Blood Flow at Rest is Impaired in Segments with Severe Coronary Artery Disease: An MR Study of Quantitative Perfusion Assessment**
Joseph Selvanayagam
- 11:30 AM - 11:40 AM** **116 - Prediction of Event-Free Survival by Contrast Enhanced Cardiac Magnetic Resonance Imaging in Patients with Symptoms of Coronary Artery Disease**
Carmen Chan
- 11:40 AM - 11:50 AM** **117 - Combined use of Adenosine Stress Perfusion MRI and Multislice CT Coronary Angiography for Detecting Hemodynamically Significant Coronary Artery Disease**
Okan Ekinci

11:50 AM - 12:00 PM	<p>118 - Serial magnetic resonance imaging for the assessment of myocardial perfusion, left ventricular function, and infarct size after application of blood-derived progenitor cells in recanalised chronic coronary total occlusions Holger Thiele</p> <p>NEW WAYS OF UNDERSTANDING VENTRICULAR FUNCTION <i>Grand Ballroom BC</i></p> <p><i>Moderators</i> Leon Axel, MD, PhD <i>NYU School of Medicine, USA</i></p> <p>Anthón Fuisz, MD <i>Washington Hospital Center, USA</i></p>
11:00 AM - 11:10 AM	<p>119 - Real-time Myocardial Function during Arrhythmia Peter Kellman</p>
11:10 AM - 11:20 AM	<p>122 - Matched Cine DENSE and Contrast-Enhanced CMR Identify Heterogeneity of Function in Noninfarcted Regions After Myocardial Infarction Frederick Epstein</p>
11:20 AM - 11:30 AM	<p>121 - Temporal Evolution of Myocardial Dysfunction in Mice after Reperfused Myocardial Infarction: A 3D Deformation Analysis Combined with Delayed Enhancement Infarct Imaging Alistair Young</p>
11:30 AM - 11:40 AM	<p>120 - MR Phase Contrast Velocity Mapping for the Assessment of Regional Function of the Systemic Ventricle in Patients with Transposition of the Great Arteries Oliver Wieben</p>
11:40 AM - 11:50 AM	<p>123 - Comparison of peak velocities in the ascending aorta detected by k-t BLAST accelerated MR-FVE and echocardiography Christof Baltes</p>
11:50 AM - 12:00 PM	<p>124 - Cardiac-Output Measurement in 5 Seconds using Ungated Spiral Phase-Contrast Jong Park</p>
	<p>VENTRICULAR REMODELING: INSIGHTS FROM CMR <i>Bayview</i></p> <p><i>Moderators</i> Michael Jerosch-Herold, PhD <i>Oregon Health & Science University, USA</i></p> <p>Saul Myerson, MD <i>John Radcliffe Hospital, United Kingdom</i></p>
11:00 AM - 11:10 AM	<p>125 - Effect of Optimal Pharmacological Treatment on Left Ventricular Remodeling in Chronic Heart Failure Assessed by Cardiovascular Magnetic Resonance Nikolay Nikitin</p>
11:10 AM - 11:20 AM	<p>126 - Intermediate and Long-Term Remodeling of Remote Left Ventricular Myocardium Following Percutaneous Transcatheter Septal Myocardial Ablation in Hypertrophic Obstructive Cardiomyopathy Detected by Cine MRI John Cahill</p>
11:20 AM - 11:30 AM	<p>127 - Human Infarct Resorption Patterns and Long-term Ventricular Remodeling Following Myocardial Infarctions of Varying Size Paula Tejedor</p>
11:30 AM - 11:40 AM	<p>128 - Left Ventricular Remodeling in Dilated Cardiomyopathy with and without Evidence of Late Gadolinium Enhancement Ravi Assomull</p>
11:40 AM - 11:50 AM	<p>129 - Bradykinin B2 receptor does not mediate the anti-remodeling effects of the angiotensin II type 2 receptor following myocardial infarction David Isbell</p>
11:50 AM - 12:00 PM	<p>130 - CMR Demonstrates Reduced Post-Infarct Left Ventricular Remodeling in Mice with iNOS Inhibition Frederick Epstein</p>
12:00 PM-12:30 PM	<p>SCMR Business Meeting <i>Grand Ballroom A</i></p>
12:30 PM-1:30 PM	<p>Lunch (On Own) / Poster Viewing Session I <i>Pacific Concourse</i> Posters 301-310 and 321-445 Abstracts can be viewed in their entirety in the Journal of Cardiovascular Magnetic Resonance.</p>

1:30 PM-3:00 PM

PARALLEL SESSIONS

PEDIATRIC CMR I

CHILDREN ARE NOT SMALL ADULTS - IMPLICATIONS FOR CMR *Grand Ballroom BC*

Moderators

G. Wesley Vick III, MD, PhD
Baylor College of Medicine, USA

Richard Slaughter, MD
Prince Charles Hospital Health Service District, Australia

1:30 PM-1:50 PM

Overview Of CMR In Congenital and Acquired Pediatric Heart Disease

Tal Geva, MD
Boston Children's Hospital, USA

1:50 PM-2:10 PM

Anesthesia Versus Sedation

Edward Baker, MD
Guy's, King's and St. Thomas' School of Medicine, United Kingdom

2:10 PM-2:30 PM

CMR Versus CT For Vascularanomalies

Shi Joon Yoo, MD
University of Toronto, Canada

2:30 PM-2:50 PM

CMR Guided Interventions

Reza Razavi, MRCP
Guy's, Kings's and St. Thomas' School of Medicine, United Kingdom

2:50 PM-3:00 PM

Discussion

BASIC PARALLEL SESSION

LUMEN, WALL, AND NEW CONTRAST MECHANISMS

Grand Ballroom A

Moderators

Joerg Barkhausen, MD
University Hospital Essen, Germany

Robert Edelman, MD
Evanston Hospital, USA

1:30 PM-1:45 PM

Imaging The Vulnerable Patient

Valentin Fuster, MD, PhD
Mount Sinai Medical Center, USA

1:45 PM-2:00 PM

How To Generate MR Contrast Agents - Coupling, Binding, Etc.

King Li, MD, PhD
Warren Grant Magnuson Clinical Center, NIH, USA

2:00 PM-2:15 PM

Atheroma Characterization and Validation (Preclinical)

Chun Yuan, PhD
University of Washington, USA

2:15 PM-2:30 PM

Atheroma Characterization Using Specific and Nonspecific Contrast Agents (Clinical)

Bruce Wasserman, MD
Johns Hopkins School of Medicine, USA

2:30 PM-2:45 PM

The Near Future: Applications of Intravascular Contrast Agents

Ingo Paetsch, MD
German Heart Institute, Germany

2:45 PM-3:00 PM

Atheroma Evaluation In Clinical Trials

Zahi Fayad, PhD
Mount Sinai Medical Center, USA

CLINICAL PARALLEL SESSION

GUIDELINES AND REIMBURSEMENT

Bayview

Moderators

Eckart Fleck, MD
German Heart Institute, Germany

Raymond Kim, MD
Duke University Medical Center, USA

1:30 PM-1:45 PM

CMR In Clinical Routine - Europe

Eike Nagel, MD
German Heart Institute, Germany

1:45 PM-2:00 PM **CMR In Clinical Routine - USA**
Steven Wolff, MD, PhD
Advanced Cardiovascular Imaging, USA

2:00 PM-2:15 PM **CMR In Clinical Routine - Asia**
Hajime Sakuma, MD, PhD
Mie University Hospital, Japan

2:15 PM-2:30 PM **Training Guidelines**
Gerald Pohost, MD
University of Southern California, USA

2:30 PM-2:45 PM **SCMR and Reimbursement**
Nathaniel Reichek, MD
St. Francis Hospital, USA

2:45 PM-3:00 PM Discussion

3:00 PM-3:30 PM Break

3:30 PM-5:00 PM Oral Abstracts (3 Parallel Sessions)

UNDERSTANDING THE PHENOTYPE OF HEART FAILURE

Bayview

Moderators

Joseph Selvanayagam, MBBS, FRACP
John Radcliffe Hospital, United Kingdom

Robert Biedermann, MD
Allegheny General Hospital, USA

3:30 PM - 3:40 PM **131 - Prevalence of Cardiac Damage in Patients with Sarcoidosis: A Delayed Enhancement Cardiac MRI Study**
Manesh Patel

3:40 PM - 3:50 PM **132 - Myocardial scarring in beta thalassemia major by late gadolinium-enhanced Magnetic Resonance Imaging: correlation with iron overload and ECG-changes**
Alessia Pepe

3:50 PM - 4:00 PM **133 - Baseline Findings of a CMR Driven Randomized Controlled Trial of Iron Chelation Therapy in Thalassaemia Major**
Mark Tanner

4:00 PM - 4:10 PM **134 - Improved R2* measurements in myocardial iron overload**
Nilesh Ghugre

4:10 PM - 4:20 PM **135 - Impaired Aortic Properties in Patients with Chronic Heart Failure as Assessed by Cardiovascular Magnetic Resonance**
Nikolay Nikitin

4:20 PM - 4:30 PM **136 - Regional Differences in Systolic & Diastolic Function in Arrhythmogenic Right Ventricular Dysplasia/Cardiomyopathy using Magnetic Resonance Imaging**
Chandra Bomma

4:30 PM - 4:40 PM **137 - CMR follow up of patients with ARVC**
Sven Plein

4:40 PM - 4:50 PM **138 - Combined Contrast-enhanced and T2-weighted Cardiovascular Magnetic Resonance Accurately Detects Acute Myocarditis**
Hassan Abdel-Aty

4:50 PM - 5:00 PM **139 - Influencing Factors Measuring Left Ventricular Function and Morphology by MRI-Is MRI the Golden Standard?**
Henning Steen

**DELAYED ENHANCEMENT IN MYOCARDIAL INFARCTION:
MORE THAN SCAR VISUALIZATION**

Grand Ballroom A

Moderators

Thorsten Dill, MD
Kerckhoff Heart Center, Germany

Walter Rogers, PhD
University of Virginia, USA

- 3:30 PM - 3:40 PM** **140 - MRI to predict the presence of Q waves on the ECG**
Theodorus Kaandorp
- 3:40 PM - 3:50 PM** **141 - Contrast enhanced magnetic resonance imaging of acute myocardial infarction: optimization of image contrast**
Kai-Uwe Waltering
- 3:50 PM - 4:00 PM** **142 - Resolution of Microvascular Obstruction Occurs Within Days of an Acute Myocardial Infarction**
Timothy Albert
- 4:00 PM - 4:10 PM** **143 - Infarct Size is an Independent Predictor of Mortality in Patients With Coronary Artery Disease**
Rishi Kaushal
- 4:10 PM - 4:20 PM** **144 - Prognostic value of delayed contrast-enhanced cardiovascular magnetic resonance in patients after reperfused acute myocardial infarction**
Matthias Regenfus
- 4:20 PM - 4:30 PM** **145 - Delayed Enhancement Cardiac Magnetic Resonance Imaging Detects Acute Right Ventricular Myocardial Infarction**
Andreas Kumar
- 4:30 PM - 4:40 PM** **146 - Detection of Right Ventricular Infarction by Cardiac Magnetic Resonance Imaging**
D. Paterson
- 4:40 PM - 4:50 PM** **147 - Differences of late Gd-DTPA kinetics and partition coefficient in normal, stunned and necrotic myocardium in patients with acute myocardial infarction**
Christoph Klein
- 4:50 PM - 5:00 PM** **148 - Hypoenhancement on Delayed Contrast-Enhanced MRI following ST-Segment Elevation Myocardial Infarction: an Alternate Approach for Evaluating No-Reflow**
Chiara Bucciarelli-Ducci

**INDIVIDUAL RISK STRATIFICATION:
NEW APPROACHES USING CMR**

Grand Ballroom BC

Moderators

Sven Plein, MD
Leeds General Infirmary, United Kingdom

Cees van Echteld, PhD
University Medical Center Utrecht, Netherlands

- 3:30 PM - 3:40 PM** **149 - Risk Assessed by Framingham and Myocardial Perfusion Measured by MRI Selects Patients for Coronary Artery Angiography: The NHLBI-Sponsored Women's Ischemia Syndrome Evaluation (WISE) Study**
Mark Doyle
- 3:40 PM - 3:50 PM** **150 - Arrhythmic Risk Stratification in the MADIT-II Population**
Sunil Mathew
- 3:50 PM - 4:00 PM** **151 - Pulmonary Vein Diameter Reduction in Early Magnetic Resonance Angiography After Radiofrequency Ablation: Prognostic Significance for Development of Severe Stenosis**
Okan Ekinci
- 4:00 PM - 4:10 PM** **152 - Myocardial perfusion in patients with cardiac syndrome X assessed with Cardiovascular Magnetic Resonance and Positron Emission Tomography**
Andrew Elkington
- 4:10 PM - 4:20 PM** **153 - The Relationship Between Myocardial Iron Deposition and Left Ventricular Dysfunction in Thalassemia using Cardiovascular Magnetic Resonance.**
Mark Westwood
- 4:20 PM - 4:30 PM** **154 - Cardiac Magnetic Resonance Characterization of Patients with Pheochromocytoma**
W. Patricia Ingkanisorn

- 4:30 PM - 4:40 PM** **155 - Prevalence and Structural Risk Factors for Left Ventricular Thrombus in Patients with Systolic Dysfunction as Assessed by Cardiac MRI**
Han Kim
- 4:40 PM - 4:50 PM** **156 - MR imaging of atherosclerosis in aorta and carotid arteries of patients with acute ischemic stroke**
Venkatesh Mani
- 4:50 PM - 5:00 PM** **157 - MR Delayed Enhancement Imaging in Post Cardiac Transplant Patients at Yearly Review**
Richard Slaughter
- 5:00 PM-6:30 PM** **Case Interpretation Panel: Read With The Experts (I)** **Grand Ballroom A**
Moderators
Frank Rademakers, MD, PhD **Michael McConnell, MD**
University Hospitals Leuven, Belgium *Stanford University, USA*
- Discussants*
Udo Sechtem, MD **Art Stillman, MD**
Robert Bosch Krankenhaus, Germany *Cleveland Clinic, USA*
- Ronald Razmi, MD** **Charles Higgins, MD**
The Care Group, USA *UCSF Medical Center, USA*
- 5:00 PM-6:30 PM** **Poster Viewing Session II / Moderated Poster Tour I** **Pacific Concourse**
Wine And Cheese Reception
Moderated poster presenters presenting Posters 301-310
Moderators
Robert Balaban, PhD **Raad Mohaiddin, MD, PhD**
National Institutes of Health, USA *Imperial College School of Medicine, United Kingdom*
- 301 - Cardiac MRI Within One Week Of Coronary Stent Implantation is Safe**
Charles Kim
- 302 - Safety and Feasibility of High-Dose-Dobutamine Stress MRI for Detection of Myocardial Ischemia: Experience in 400 consecutive in - and outpatients.**
Rainer Ott
- 303 - Myocardial Perfusion Improvement Detected by MRI in Patients Undergoing Surgical Revascularization and Bone Marrow Cells Injection - One Year Follow-Up**
Carlos Rochitte
- 304 - Time from symptom onset to reperfusion and influence on infarct size in patients with ST-elevation myocardial infarction reperfused by prehospital fibrinolysis or prehospital initiated facilitated percutaneous intervention**
Holger Thiele
- 305 - Discrimination of Ischemic vs. Non-ischemic Cardiomyopathy Among Patients with Heart Failure Using Combined Coronary MRI and Delayed Enhancement MR.**
Thomas Hauser
- 306 - MR-based Cardiac Electromechanical Mapping in Ischemic Heart**
Hiroshi Ashikaga
- 307 - Determination of Association Between Carotid Atherosclerosis and High Density Lipoprotein Subfractions by High Resolution MRI**
Milind Desai
- 308 - Assessment of Functional Flow Reserve Using Real-Time Global Coherent Free Precession**
Timothy Albert
- 309 - Single-echo versus multiple echo cardiac T2* estimates for cardiac iron estimation in iron overload**
John Wood
- 310 - Phase Train Approach for Very High Temporal Resolution Cardiac Imaging**
Vinay Pai
- 7:00 PM** **User Meetings**

8:00 AM-9:30 AM Basic Plenary Session I

MOLECULAR IMAGING

Grand Ballroom

Moderators

Greg Lanza, MD, PhD

University of Washington St. Louis, USA

Dara Kraitchman, PhD

Johns Hopkins University School of Medicine, USA

8:00 AM-8:20 AM

Targeted Isotopes For Radionuclide Imaging Of Cell Therapy

Joseph Wu, MD, PhD

Stanford University, USA

8:20 AM-8:40 AM

MR Molecular Spectroscopy

Joanne Ingwall, PhD

Brigham & Women's Hospital, USA

8:40 AM-9:00 AM

Cellular Tracking By MR

Jeff Bulte, MD, PhD

Johns Hopkins University School of Medicine, USA

9:00 AM-9:20 AM

Molecular Imaging By CMR

Samuel Wickline, MD

Washington University at St. Louis School of Medicine, USA

9:20 AM-9:30 AM

Discussion

8:00 AM-9:30 AM

Parallel Session: Clinical Oral Abstracts

HEADING FOR NEW CLINICAL GOLD STANDARDS

Bayview

Moderators

Eike Nagel, MD

German Heart Institute, Germany

Joao Lima, MD

Johns Hopkins University School of Medicine, USA

8:00 AM - 8:10 AM

158 - Value of T2-weighted-, first-pass-enhancement and cine-MRI to differentiate between acute and chronic myocardial infarction

Gunnar Lund

8:10 AM - 8:20 AM

159 - Clinical Safety of Cardiac MRI Prior to Discharge in Patients with Acute Myocardial Infarction and Coronary Artery Stenting with both Bare Metal and Drug-Eluting Stents

Manesh Patel

8:20 AM - 8:30 AM

160 - Contrast Enhanced Magnetic Resonance Imaging: A Novel Approach for Identifying The Infarct Related Artery in Patients with Non-ST Elevation Myocardial Infarction

John Heitner

8:30 AM - 8:40 AM

161 - Changes in Left Atrial Geometry and Function After Left Atrial Ablation

Meyer Thomas

8:40 AM - 8:50 AM

162 - Pulmonary Hypertension: Comparison Between Pulmonary-Aortic Transit Time Measured By Cardiac Magnetic Imaging And Right Heart Catheterization

Javier Sanz

8:50 AM - 9:00 AM

163 - Submillimeter Spatial-Resolution Contrast-Enhanced MRA of the Carotid Arteries Using Ferumoxytol in Humans

Vu Mai

9:00 AM - 9:10 AM

164 - Real-time guidance strategy for pulmonary vein ablations : is XMR a feasible approach?

Kawal Rhode

9:10 AM - 9:20 AM

165 - Cartesian Self-Gated Cine MRI: Initial Clinical Experience

David Sandman

9:20 AM - 9:30 AM

166 - Free-breathing whole-heart MRI with 3D-radial SSFP and self-navigated image reconstruction

Christian Stehning

9:30 AM-10:15 AM Platinum Sponsor Presentations

Grand Ballroom

Moderators

Warren Manning, MD

Beth Israel Deaconess Medical Center, USA

Stefan Neubauer, MD

John Radcliffe Hospital, United Kingdom

9:30AM Philips Medical Systems

9:45AM GE Medical Systems

10:00AM Siemens Medical Solutions



10:15 AM-10:45 AM CMR Questionnaire

Grand Ballroom

Gerald Pohost, MD

University of Southern California, USA

10:45 AM-11:15 AM Break

11:15 AM-12:15 PM Oral Abstracts (3 Parallel Sessions)

HOT TOPICS IN CORONARY ARTERY IMAGING

Grand Ballroom A

Moderators

Scott Flamm, MD

Texas Heart Institute

Elmar Spuentrup, MD

Aachen Technical University, Germany

11:15 AM - 11:25 AM **167 - Intraindividual Comparison of Coronary MR Angiography and Coronary CT Angiography in Calcified Coronary Segments**
Murat Ozgun

11:25 AM - 11:35 AM **168 - Feasibility of Single Breath-Hold Whole Heart Coverage Coronary MRA Using Highly Accelerated Parallel Imaging with a 32-Channel MR System**
Thoralf Niendorf

11:35 AM - 11:45 AM **169 - Diagnostic Accuracy of Whole Heart Coronary Magnetic Resonance Angiography for the Detection of Significant Coronary Stenoses in Patients with Suspected Coronary Artery Disease.**
Hajime Sakuma

11:45 AM - 11:55 AM **170 - Quantification of Coronary Artery Stenoses using Interventional MRI: Comparison to X-Ray Angiography**
Jordin Green

11:55 AM - 12:05 PM **171 - Coronary MRA at 3.0 Tesla compared to 1.5 Tesla: Initial results in patients with suspected coronary artery disease**
Matthias Hackenbroch

12:05 PM - 12:15 PM **172 - Coronary Angiography In Vivo Employing PASADENA 13C and 1H Magnetic Resonance Imaging**
Thao Tran

**VASCULAR AND INTERVENTIONAL CMR:
TOWARDS CLINICAL FEASIBILITY**

Bayview

Moderators

Bernhard Gerber, MD

Cliniques Universitaires St. Luc, Belgium

Andre Duerinckx, MD

VA North Texas Healthcare System, USA

11:15 AM - 11:25 AM **173 - Multi-slice Dark-Blood TSE Carotid Imaging at 3T with Regional Saturation and Rapid Extended Coverage - A Feasibility Study**
Ioannis Koktzoglou

11:25 AM - 11:35 AM **174 - MR and CT Imaging of Patients with Atherosclerotic Aortic Plaque and Evaluation of New MR Methods**
Daisy Chien

11:35 AM - 11:45 AM **175 - Interactive Real-Time Magnetic Resonance-Guided Atrial Septal Puncture and Atrial Balloon Septostomy are Feasible in Swine**
Amish Raval

11:45 AM - 11:55 AM **176 - Chronic Total Peripheral Artery Occlusion Recanalization Using Interactive Real-Time Magnetic Resonance Imaging Guidance is Feasible in a Swine Model**
Amish Raval



11:55 AM - 12:05 PM	177 - MR-Compatible Coronary Stent: In-Vitro and First Human MR Imaging Experience With an Absorbable Magnesium-Alloy Stent Peter Hunold	
12:05 PM - 12:15 PM	178 - MR Fluoroscopy For Delivery Of Non-Ionic Dysprosium-DTPA- BMA Into Scarred Myocardium Maythem Saeed	
	IMAGING MYOCARDIAL FIBROSIS AND ITS CLINICAL IMPACT	Grand Ballroom BC
	<i>Moderators</i>	
	Maleah Grover-McKay, MD <i>University of California San Diego, USA</i>	Robert Judd, PhD <i>Duke University Medical Center, USA</i>
11:15 AM - 11:25 AM	179 - Prevalence of incidental non-cardiac findings detected by cardiac MRI Kai-Uwe Waltering	
11:25 AM - 11:35 AM	180 - Demonstration and Prediction of the Potential Reversible Nature of Thinned Myocardium by CMR. Olga James	
11:35 AM - 11:45 AM	181 - Comparison of Contrast Enhanced Magnetic Resonance Imaging to Positron Emission Tomography with F-18 Fluorodeoxyglucose and Rb-82 for the Detection of Myocardial Viability Using Left Ventricular Bullseye Analysis Robert Eisner	
11:45 AM - 11:55 AM	182 - Myocardial Viability Assessment by Contrast-Enhanced MRI Before CABG Surgery - Impact of Late Enhancement Extent in MRI on Coronary Graft Flow Peter Hunold	
11:55 AM - 12:05 PM	183 - CMR contrast-enhanced study of dilated cardiomyopathy Sandra Pujadas	
12:05 PM - 12:15 PM	184 - Detection of Intraventricular Thrombi by Contrast Enhanced Magnetic Resonance Imaging of the Heart Okan Ekinci	
12:15 PM-1:30 PM	Lunch (On Own) / Poster Viewing III Posters 311-320 and 446-564. Abstracts can be viewed in their entirety in the Journal of Cardiovascular Magnetic Resonance	Pacific Concourse
12:15 PM-1:30 PM	SCMR Trainees And Students Hour <i>Moderators</i>	Grand Ballroom A
	Uma Valeti, MD <i>Mayo Clinic, USA</i>	Saul Myerson, MD <i>John Radcliffe Hospital, United Kingdom</i>
12:15PM-12:20PM	Welcome Address Warren Manning, MD <i>Beth Israel Deaconess Medical Center, USA</i>	
12:20PM-12:35PM	Why Choose CMR For Your Career Andrew Arai, MD <i>NHLBI/National Institutes of Health, USA</i>	
	Clinical	Basic
	Grand Ballroom A	Grand Ballroom BC
	<i>Moderators</i>	<i>Moderators</i>
	Uma Valeti, MD <i>Mayo Clinic, USA</i>	Leon Axel, MD, PhD <i>NYU School of Medicine, USA</i>
	Saul Myerson, MD <i>John Radcliffe Hospital, United Kingdom</i>	Daisy Chien, PhD <i>Cedars-Sinai Medical Center, USA</i>
12:35PM-12:50PM	How To Become An Expert And What To Look For In A Training Program Raymond Kim, MD <i>Duke University Medical Center, USA</i>	How To Become An Expert And What To Look For In A Training Program Elliot McVeigh, PhD <i>National Institutes of Health, USA</i>

12:50 PM-1:05 PM **How To Transition To The Real World**
Dipan Shah, MD
Nashville Cardiovascular Magnetic Resonance Institute, USA

How To Transition To The Real World
Krishna Nayak, PhD
University of Southern California, USA

1:05 PM-1:30 PM **Panel discussion**

Panel Discussion

1:30 PM-3:00 PM Parellel Sessions

**CLINICAL PARALLEL SESSION
CMR IN CHF**

Grand Ballroom A

Moderators

Michael Poon, MD
Cabrini Medical Center, USA

Udo Sechtem, MD
Robert Bosch Krankenhaus, Germany

1:30 PM-1:45 PM **Overview Of The Problem**
Kanu Chatterjee, MBBS
University of California San Francisco, USA

1:45 PM-2:00 PM **CMR in DCM**
Christopher Kramer, MD
University of Virginia Health System, USA

2:00 PM-2:15 PM **CMR in HCM**
Albert van Rossum, MD, PhD
VU Medical Center, Netherlands

2:15 PM-2:30 PM **CMR in Myocarditis**
Heiko Mahrholdt, MD
Robert Bosch Medical Center, Germany

2:30 PM-2:45 PM **CMR in Infiltrative Diseases**
Dudley Pennell, MD
Royal Brompton Hospital, United Kingdom

2:45 PM-3:00 PM **CMR in ARVC**
David Bluemke, MD
Johns Hopkins Hospital, USA

**BASIC PARALLEL SESSION
NEW TECHNIQUES IN CMR**

Bayview

Moderators

Frederick Epstein, PhD
University of Virginia, USA

David Firmin, PhD
Royal Brompton Hospital, United Kingdom

1:30 PM-1:45 PM **Advances In Interventional CMR**
Elliot McVeigh, PhD
National Institutes of Health, USA

1:45 PM-2:00 PM **3T Cardiac MRI and Beyond**
John Oshinski, PhD
Emory University, USA

2:00 PM-2:15 PM **Massive Parallel CMR**
Daniel Sodickson, PhD
Beth Israel Deaconess Medical Center, USA

2:15 PM-2:30 PM **Non-Rectilinear Trajectories In CMR**
Craig Meyer, PhD
University of Virginia, USA

2:30 PM-2:45 PM **Cardiac Spectroscopy In 2005**
Paul Bottomley, PhD
Johns Hopkins Hospital, USA





2:45 PM-3:00 PM

Strain Encoded Cardiac Imaging
Nael Osman, PhD
Johns Hopkins University, USA

**PEDIATRIC CMR II
 ADVANCES IN CMR OF CONGENITAL DISEASE**

Grand Ballroom BC

Moderators

Taylor Chung, MD
Texas Children's Hospital, USA

John Wood, MD
University of Southern California, USA

1:30 PM - 1:40 PM

185 - Myocardial Scarring and Fibrosis Cause Abnormal Contractile Mechanics in Single Ventricle after Fontan Operation: A New Insight by MRI Studies
Gautam Singh

1:40 PM - 1:50 PM

186 - Atrial Septal Defect Flow Measured by Cardiac Magnetic Resonance Imaging Predicts Right and Left Ventricular Remodeling After Amplatzer Device Closure
Anna Lisa Crowley

1:50 PM - 2:00 PM

187 - Magnetic Resonance Myocardial Delayed Enhancement in Infants With Anomalous Origin of Left Main Coronary Artery From Pulmonary Artery
Carlos Rochitte

2:00 PM - 2:10 PM

188 - Initial Experience with 3 Tesla Cardiac MRI Studies for Small Infants and Children: The Advantages and Problems
Michael Silberbach

2:10 PM - 2:20 PM

189 - Normal Aortic Compliance and Left Ventricular Mass Late After Repair of Aortic Coarctation
Isabelle Vonder Muhll

2:20 PM - 2:30 PM

190 - Variability In Secondary Flow Patterns In The Aorta of Single Ventricle Patients After Bidirectional Cavo-Pulmonary Connection
Mark Fogel

2:30 PM - 2:40 PM

191 - Cardiac Magnetic Resonance Imaging in Congenital Heart Disease Using Free Breathing with Deep Sedation
Emily Wessler

2:40 PM - 2:50 PM

192 - CMR Assessment of Pulmonary Regurgitation and Right Ventricular Function After Repair of Tetralogy of Fallot
Karen Ordovas

2:50 PM - 3:00 PM

193 - Impaired left ventricular function in patients with severe dilatation of the right ventricle late after total repair of tetralogy of Fallot
Alexander vanStraten

3:00 PM-3:30 PM

Break

3:30 PM-5:30 PM

Parallel Sessions: Clinical Plenary Session II

CMR AND CT

Grand Ballroom A

Moderators

Tom Brady, MD
Massachusetts General Hospital, USA

Jan Bogaert, MD
University Hospital Leuven, Belgium

3:30 PM-3:45 PM

Safety In MR - Pacers And Defibrillators
Ariel Roguin, MD, PhD
Rambani Medical Center, Israel

3:45 PM-4:00 PM

Safety In CT - Radiation/Contrast
Joerg Barkhausen, MD, PhD
University Hospital Essen, Germany

4:00 PM-4:10 PM

Discussion

4:10 PM-4:25 PM

MR In The Assessment Of Pulmonary Veins
Thomas Hauser, MD
Beth Israel Deaconess Medical Center, USA

4:25 PM-4:40 PM **CT In The Assessment Of Pulmonary Veins**
Albert de Roos, MD, PhD
Leiden University Medical Center, Netherlands

4:40 PM-4:50 PM **Discussion**

4:50 PM-5:05 PM **MR Coronary Angiography**
Scott Flamm, MD
St. Luke's Episcopal Hospital, USA

5:05 PM-5:20 PM **CT Coronary Angiography**
Peter Pattynama, MD, PhD
Rotterdam University Hospital, Netherlands

5:20 PM-5:30 PM Discussion

3:30 PM-5:30 PM Parallel Session: Basic Oral Abstracts

NEW CMR METHODS AND EXPERIMENTS

Bayview

Moderators

Hildo Lamb, PhD
Leiden University Medical Center, Netherlands

John Ridgway, PhD
Leeds General Infirmary, United Kingdom

3:30 PM - 3:40 PM **194 - STEAM Localization for Short Echo Time Cardiac Proton Spectroscopy at 3.0 Tesla**
Michael Schär

3:40 PM - 3:50 PM **195 - In vivo Magnetic Resonance Imaging of Inflammation in Myocardial Infarct Mouse Model**
Takayasu Arai

3:50 PM - 4:00 PM **196 - Selective cerebral overexpression of growth hormone alters cardiac function, morphology, energy metabolism and catecholamines in transgenic mice**
Elmir Omerovic

4:00 PM - 4:10 PM **197 - Obesity is Associated with Abnormal Myocardial Energetics as Detected by Cardiovascular Magnetic Resonance Spectroscopy**
Monique Robinson

4:10 PM - 4:20 PM **198 - Lipid Identification by Image-guided (1H) Proton Magnetic Resonance Spectroscopy of Human Carotid Atherosclerosis**
Frederick Ruberg

4:20 PM - 4:30 PM **199 - Obesity is Associated with Abnormal Skeletal Muscle Energetics- A Magnetic Resonance Spectroscopy Study**
Monique Robinson

4:30 PM - 4:40 PM **200 - P31 MRS and delayed recovery of phosphocreatine after exercise: a new diagnostic test for peripheral arterial disease?**
David Isbell

4:40 PM - 4:50 PM **201 - Multi-Contrast Delayed Enhancement Imaging for Improved Detection of Subendocardial Infarcts**
Peter Kellman

4:50 PM - 5:00 PM **202 - Characterizing Radial Undersampling Artifacts For Cardiac Applications**
Dana Peters

5:00 PM - 5:10 PM **203 - Assessment of Labeled Mesenchymal Stem Cell Biodistribution and Homing in a Canine Model of Myocardial Infarction by MRI and SPECT/CT**
Wesley Gilson

5:10 PM - 5:20 PM **204 - Myocardial Strain-Rate Improvements After Transmyocardial Fluoroscopic Delivery Of Feridex-Labeled Mesenchymal Stem Cells In Acute Canine Myocardial Infarction**
Asif Mahmood

5:20 PM - 5:30 PM **205 - Angiotensin II Type 2 Receptor Overexpression Adds to Knockout of the Type 1a Receptor in the Attenuation of Post-Infarction Remodeling, Independent of Blood Pressure**
Szilard Voros

3:30 PM-5:30 PM

Parallel Session

PEDIATRIC CMR III HOT TOPICS

Grand Ballroom BC

Moderators

Matthias Gutberlet, MD
Klinik für Strahlenheilkunde, Germany

James Nielson, MD
Mt. Sinai Medical Center, USA

3:30 PM-3:45 PM

Flow And Function By Real-Time MRI

Erik M. Pedersen, MD
MR-Center, Aarhus, Denmark

3:45 PM-4:00 PM

Myocardial Perfusion And Delayed Enhancement In CHD

Ashwin Prakash, MD
Columbia University, USA

4:00 PM-4:15 PM

CMR In Pulmonary Valve Replacement

Naeem Merchant, MD
Toronto General Hospital, Canada

4:15 PM-4:30 PM

CMR Assessment Of Fontan

Mark Fogel, MD
Children's Hospital Philadelphia, USA

4:30 PM-4:45 PM

Pre-Bidirectional Glenn

Andrew J. Powell, MD
Children's Hospital Boston, USA

4:45 PM-5:00 PM

Tetralogy Of Fallot

Willem Helbing, MD
Erasmus McSophia, Netherlands

5:00 PM-5:15 PM

Coarctation

Gautham Reddy, MD
University of California San Francisco, USA

5:15 PM-5:30 PM

Discussion

5:30 PM-7:00 PM

Case interpretation panel: Read with the experts (II)

Grand Ballroom

Moderators

Peter Buser, MD
University Hospital Basel, Switzerland

Victor Ferrari, MD
University of Pennsylvania, Philadelphia, USA

Discussants

Steven Wolff, MD, PhD
Lenox Hill Hospital, USA

Carlos Rochitte, MD
University of Sao Paulo, Brazil

Guillem Pons-Llado, MD
Hospital de Sant Creu I Sant Pau, Spain

Jan Bogaert, MD, PhD
University Hospital Leuven, Belgium

5:30 PM-7:00 PM

**Poster viewing session IV / Moderated poster tour II
Moderated poster presenters presenting Posters 311-320**

Pacific Concourse

Moderators

Ron Peshock, MD
UT Southwestern Medical Center, USA

Albert van Rossum, MD, PhD
VU Medical Center, Netherlands

311 - MRI of acute myocardial infarction: evaluation of functional recovery.
Alessandra Porcelli

312 - Delayed Contrast-enhanced MRI Using a 3D Inversion Recovery Sequence Combined with Parallel Imaging Techniques (SENSitivity Encoding-SENSE)
Alexandra Schmiedel

313 - Cardiac Energetics are Related to Plasma Metabolites and Insulin Resistance in Patients with Heart Failure
Michaela Scheuermann-Freestone

314 - Rapid Cardiovascular MRI 3D Quantitation of Aortic Stenosis Velocities in Comparison with Echocardiography: Who is Correct?

Vikas Rathi

315 - The Histological Basis of Late Gadolinium Enhancement in Anderson-Fabry Disease

James Moon

316 - Faster Flow Quantification Using Sensitivity Encoded Phase Velocity Magnetic Resonance Imaging:

Ashwin Prakash

317 - A non-invasive method of calculating Pulmonary Vascular Resistance using MR flow data.

Vivek Muthurangu

318 - Assessment of Differential Branch Pulmonary Blood Flow: A Comparative Study of Phase-Contrast Magnetic Resonance Imaging and Radionuclide Lung Perfusion Imaging

Andrew Taylor

319 - Cardiac 1H-MR Spectroscopy In Normal And Guanidinoacetate N-Methyltransferase (GAMT) Deficient Mice In Vivo

Jargen Schneider

320 - Prevalence of Malignant Ventricular Arrhythmias in the Fibrotic form of Arrhythmogenic Right Ventricular Dysplasia/Cardiomyopathy as assed by Contrast-Enhanced Cardiovascular Magnetic Resonance.

Joao Petriz

7:00 PM

Social Event/Award Presentations

Grand Ballroom

Join your colleagues for hors d'oeuvres and cocktails before experiencing nightlife in San Francisco!

Presentations of:

Best Clinical Oral/Poster Abstract Award

Best Basic Science Oral/Poster Abstract Award

Sunday, January 23, 2005

8:00 AM-9:30 AM

Parallel Sessions

**Clinical Parallel Session *Grand Ballroom*
CMR IN A HIGH-THROUGHPUT SETTING**

Moderators

Matthias Friedrich, MD

University of Calgary, Canada

Oliver Strohm, MD

MRT Zentrum Berlin, Germany

8:00 AM-8:15 AM

Ischemic Heart Disease

Edward Martin, MD

Oklahoma Heart Institute, USA

8:15 AM-8:30 AM

Nonischemic Heart Disease

Sanjay Prasad, MD

Royal Brompton Hospital, United Kingdom

8:30 AM-8:45 AM

Valvular Heart Disease

Jeannette Schulz-Menger, MD

Franz-Volhard-Klinik, Germany

8:45 AM-9:00 AM

Congenital Heart Disease And Masses

Aernout Beek, MD

VU University Medical Center, Netherlands

**Basic Parallel Session *Bayview*
MURINE CMR**

Moderators

Robin Choudhury, MD

John Radcliffe Hospital, United Kingdom

Brent French, PhD

University of Virginia, USA

MR Evaluation Of CHF Models

Victor Ferrari, MD

University of Pennsylvania Medical Center, USA

**Imaging Intramyocardial Function:
How does it add?**

Frederick Epstein, PhD

University of Virginia, USA

**The Failing Heart -
An engine out of fuel?**

Stefan Neubauer, MD

John Radcliffe Hospital, United Kingdom

**Nitric Oxide - An Essential
Regulator Of Cardiac Function**

Ulrich Decking, MD

Heinrich-Heine University, Germany

9:00 AM-9:15 AM	Maintaining The Workflow Dipan Shah, MD <i>Nashville Cardiovascular Magnetic Resonance Institute, USA</i>	Early Cardiac Phenotypes - CMR In Newborn Mice Frank Wiesmann, MD <i>Medizinische Universitaetsklinik, Germany</i>
9:15 AM-9:30 AM	Discussion	Discussion
9:30 AM-10:00 AM	Break	
10:00 AM-12:00 PM	Basic/Clinical Plenary Session 3T/Interventional CMR <i>Moderators</i> John M. Pauly, PhD <i>Stanford University, USA</i> Albert Lardo, PhD <i>Johns Hopkins University School of Medicine, USA</i>	Grand Ballroom
10:00 AM-10:15 AM	MR Compatible And Friendly Hardware, Catheters, And Devices Harald Quick, PhD <i>University Hospital Essen, Germany</i>	
10:15 AM-10:30 AM	Gene And Stem Cell Delivery To Myocardium Robert Lederman, MD <i>National Institutes of Health, USA</i>	
10:30 AM-10:45 AM	Electrophysiologic Interventions Henry Halperin, MD, PhD <i>Johns Hopkins University, USA</i>	
10:45 AM-11:00 AM	Interventions In Congenital Heart Disease Charles Higgins, MD <i>University of California San Francisco, USA</i>	
11:00 AM-11:15 AM	Coronary MRA at 3T Matthias Stuber, PhD <i>Johns Hopkins University, USA</i>	
11:15 AM-11:30 AM	Is CMR Trending Toward Performance At 3T Rather Than 1.5T? Gerald Pohost, MD <i>University of Southern California, USA</i>	
11:30 AM-11:45 AM	Discussion	
11:45 AM-12:00 PM	Closing Remarks Warren Manning, MD <i>Beth Israel Deaconess Medical Center, USA</i> Christopher Kramer, MD <i>University of Virginia Health System, USA</i>	
12:00 PM	Adjournment until 2006 in Miami, FL USA	

Technologist Workshop



Friday, January 21, 2005

- 5:00 PM-5:05 PM** **Opening Remarks**
Seacliff AB
Jane Francis
University of Oxford, United Kingdom
- 5:05 PM-6:45 PM** **Session 1: Pre-Meeting Education Session-Back to Basics**
Moderator
Jane Francis
University of Oxford, United Kingdom
- 5:05 PM-5:35 PM** Preparation of the patient and physiological monitoring
Todd Williams, RT
Washington University Medical Center, USA

- 5:40 PM-6:10 PM** How to acquire the basic views for CMR
Tim Cannell
Royal Brompton Hospital, United Kingdom
- 6:15 PM-6:45 PM** Fundamental Cardiac MR Terms & Techniques
Cindy Comeau
Cardiovascular Research Foundation, USA
- 6:45 PM** **CLOSE**
- 7:00 PM** **Adjourn to Users Meeting**

Saturday, January 22, 2005

- 8:00 AM-1:15 PM** **Session 2: Fundamentals of CMR and Current Applications**
Seacliff AB
Moderator
Mary Watkins
Washington University Medical Center, USA
- 8:00 AM-8:50 AM** Cardiac MR Pulse Sequences, Blood Flow Appearances & Quantification
Frederick Epstein, PhD
University of Virginia, USA
- 8:55 AM-9:45 AM** Parallel Imaging and its applications in CMR:
John Ridgway, PhD
Leeds General Infirmary, United Kingdom
- 9:50 AM-10:40 AM** Cardiac MR safety up to 3T
Frank Shellock, PhD
University of Southern California, USA
- 10:45 AM-11:00 AM** **Break**
Moderator
Kraig Kissinger, BS, RT
Beth Israel Deaconess Medical Center, USA
- 11:00 AM-11:50 AM** CMR in acquired heart disease
Robert Rollings, MD
Savannah Cardiology, USA
- 11:55 AM-12:45 PM** CMR in congenital heart disease
Andrew Taylor, MRCP
Great Ormond Street Hospital, United Kingdom

- 12:45 PM-1:15 PM** **Abstract presentations**
- 1: A Quantitative Method for Determining Asynchrony and Asymmetry in Wall Motion by Cardiovascular Magnetic Resonance Imaging and MASS Analysis**
T. Tran
Huntington Medical Research Institutes, Pasadena, CA
- 2: Delayed contrast enhancement and no-reflow phenomenon in acute myocardial infarction**
K. Reiter
Department of Diagnostic and Interventional Radiology, University Hospital Essen.
- 3: Artifact-Free MR-Compatible Coronary Stent: First Human MR Imaging Experience With an Absorbable Mg-Alloy Stent**
M Jökel, K. Reiter
Department of Diagnostic and Interventional Radiology, University Hospital Essen.
- 1:15 PM-2:15 PM** **Lunch (on own)**
- 2:15 PM-6:15 PM** **Session 3: Accepted Applications II**
Seacliff AB
Moderator
Jack Roy
University of Virginia, USA
- 2:15 PM-3:05 PM** CMR in the assessment of valvular heart disease
Saul Myerson, MD
University of Oxford, United Kingdom

Saturday, January 22, 2005 (continued)

3:10 PM-4:00 PM Vascular Imaging and function
Zahi Fayad, PhD
Mount Sinai Medical Center, USA

4:05 PM-4:20 PM Break

4:20 - 4:50 PM Abstract Presentations

1: Three dimensional volume rendered pulmonary vein MRA aids in the planning of left atrial ablation
SL Eder
Emory Crawford Long Hospital, Atlanta, GA, USA.

2: Magnetic Resonance Coronary Angiography using an Intravascular Contrast Agent: Comparison of two different Inversion Recovery Sequences.
M Jökel, K. Reiter
Department of Diagnostic and Interventional Radiology, University Hospital Essen.

3: Gad-Enhanced Cardiovascular MR Imaging to Identify Left Ventricular Pseudoaneurysm.
T. Tran
Huntington Medical Research Institutes, Pasadena, CA

4:55 PM-5:45 PM Left and right ventricular function: Introduction to post processing
Gillian Smith
Royal Brompton Hospital, United Kingdom

5:50 PM-6:15 PM Case quiz
Mary Watkins, RT
Washington University Medical Center, USA

6:15 PM Adjourn

Sunday, January 23, 2005

8:00 AM-10:55 AM **Session 4: Developing Applications-Coronary Imaging and Ischemic Heart Disease**
Seacliff AB
Moderator
John Christopher, RT
University of Virginia, USA

8:00 AM-8:30 AM Coronary Imaging
Kraig Kissinger, BS, RT
Beth Israel Deaconess Medical Center, USA

8:35 AM-9:05 AM By-pass graft imaging and flow
Oliver Mohrs, MD
Cardiovascular Center Bethanien, Germany

9:10 AM-10:00 AM Stress Function and myocardial perfusion
Jeannette Schulz-Menger, MD
Franz-Volhard Klinik, Germany

10:05 AM-10:35 AM Myocardial Viability
Mercedes Pereyra, RT
Texas Heart Institute, USA

10:40 AM-10:55 AM **Best abstract award**
Phase Sensitive Inversion Recovery: An Innovative Technique to Assess Myocardial Infarction by Delayed Enhancement
P.S. Vincent
Laboratory of Cardiac Energetics; National Heart, Lung, and Blood Institute; National Institutes of Health, Bethesda, MD. USA.

10:55 AM-11:10 AM Break

11:10 AM-1:30 PM **Session 5: Basic Science and Emerging technologies**
Seacliff AB
Moderator
Mercedes Pereyra, RT
Texas Heart Institute, USA

11:10 AM-11:40 AM Mouse Imaging
Frank Wiesmann, MD
University of Wurzburg, Germany

11:45 AM-12:15 PM Contrast agents
Jack Roy
University of Virginia, USA

12:20 PM-12:50 PM Myocardial Tissue Phase Mapping and Tagging
Steffen Petersen, MD
University of Oxford, United Kingdom

12:55 PM-1:25 PM New innovations in CMR
John Christopher
University of Virginia, USA

1:30 PM **Closing Remarks and Presentations**
Jane Francis
University of Oxford, United Kingdom

1:35 PM **Adjournment until January 19, 2006 in Miami, FL, USA**

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Eighth Annual SCMR Scientific Sessions



The Annual Scientific Sessions Program Committee is responsible for selecting abstracts and meets at the annual sessions to set the agenda for the subsequent annual scientific meeting. Again, scientists from all over the world were invited to submit abstracts to the 2005 meeting. Abstract submission information was mailed to SCMR members in July 2004, and was available on the SCMR website, from August 2, 2004. Abstracts could be submitted to one of the following ten categories: Experimental MRI, Clinical and Experimental MRI, New Methods-Coronary and Vascular, New Methods - Cardiac, Clinical MRI - Ischemic Heart Disease – Ischemia, Clinical MRI - Ischemic Heart Disease – Viability, Clinical MRI - Ischemic Heart Disease – Other, Clinical MRI - Nonischemic Heart Disease, Clinical MRI - Vascular Disease, Congenital Heart Disease. This year, a total of 419 abstracts from 27 countries were submitted, clearly demonstrating worldwide expansion both of scientific interest and clinical use of CMR. Graders reviewed abstracts electronically according to scores (1-5, with 5 being the highest and 1 the lowest score), with instructions and authors anonymized. Each abstract was reviewed by at least 3 referees. The top scoring abstracts were selected for either an oral presentation or moderated poster presentation. Additional excellent abstracts were accepted for poster presentations. We believe that this has resulted in a highly attractive scientific program that should be of interest to a wide audience interested in CMR, including clinical and basic scientists as well as practicing clinicians. However, suggestions for improving the review process are always welcome. Comments and suggestions should be addressed to the Chair of the Annual Scientific Sessions Committee.

The Program Committee would like to thank the following Abstract Grading Consultants:

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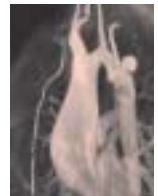
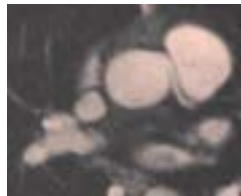
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