

5th Annual Cardiovascular Magnetic Resonance and Computed Tomography

June 23 - 26, 2007

The Ritz Carlton

Washington, DC (Tyson's Corner)

General Session Schedule

Saturday, June 23

7:00 a.m. – 8:00 a.m. **Registration**
Continental Breakfast

8:00 a.m. – 8:10 a.m. **Opening Remarks**
Drs. Hundley, Kramer

See Separate Agenda:

8:00 a.m. – 2:00 p.m. **Technologist Program**
Steve Darty
Cindy Comeau
Dan Entrikin
Rhonda Blackmon
Benjamín Cheong
Han Kim

12:50 a.m. – 2:00 p.m. **Technologist Lunch**
Cross Vendor Discussion

Session I: Basic Principles of Cardiovascular Magnetic Resonance and Computed Tomography Moderator: *Dr. Hundley*

8:10 a.m. – 8:35 a.m. **CMR Physics and Instrumentation**
Dr. Epstein

8:35 a.m. – 9:00 a.m. **CMR Scan Basics**
Dr. Hundley

9:00 a.m. – 9:25 a.m. **CCT Physics and Instrumentation**
Dr. Halliburton

9:25 a.m. – 9:50 a.m. **CCT Scan Basics**
Dr. Carr

9:50 a.m. – 10:10 a.m. **Refreshment Break**

10:10 a.m. – 10:30 a.m. **MR Safety and Implanted and Temporary Cardiovascular Devices**
Dr. Levine

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Saturday, June 23 *cont.*

10:30 a.m. – 10:50 a.m. **CCT Radiation Safety**
Dr. Halliburton

11:00 a.m. – 1:00 p.m. **Workshops**
CMR Physics *Drs. Epstein and Levine*
CMR Imaging *Dr. Kramer*
CCT Physics *Drs. Halliburton and Weigold*
CCT Imaging *Drs. Carr and Rajagopalan*

1:00 p.m. – 2:00 p.m. **Lunch**

1:15 p.m. – 2:00 p.m. **Optional Lunch Presentation**
Image Management: Databases, Storage, Interpretation
Dr. Rajagopalan

Session II: Basic Applications of CMR and CCT

Moderator: Dr. Kramer

2:00 p.m. – 2:25 p.m. **CCT - LV Size and Function/Cardiomyopathies/Pericardium/Masses**
Dr. Weigold

2:25 p.m. – 3:05 p.m. **CMR - LV Size and Function/Valvular
Disease/Cardiomyopathies/Pericardium/Masses**
Dr. Kramer

3:05 p.m. – 3:30 p.m. **CCT/CMR - Congenital Heart Disease**
Dr. Geva

3:30 p.m. – 4:00 p.m. **Refreshment Break**

4:00 p.m. – 5:00 p.m. **Case Presentations**
Drs. Kramer, Weigold and Geva

Adjourn

5:00 p.m. – 6:00 p.m. **Wine & Cheese Reception**

5:30 p.m. – 6:30 p.m. **Optional Presentation**
Advanced MR Analyses
Tagging/Strain
Dr. Epstein

5:30 p.m. – 7:15 p.m. **Optional**
Industry: Hands-on Labs

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Sunday, June 24

Session III: Coronary Angiography by CCT and CMR

Moderator: *Dr. Taylor*

- 7:00 a.m. – 8:00 a.m. **Continental Breakfast**
- 8:00 a.m. – 8:30 a.m. **MR Coronary Imaging Techniques and Clinical Results**
Dr. Manning
- 8:30 a.m. – 8:50 a.m. **Whole Heart Coronary Artery MRA**
Dr. Sakuma
- 8:50 a.m. – 9:10 a.m. **CCT Coronary Imaging — Techniques**
Dr. Carr
- 9:10 a.m. – 9:30 a.m. **CCT Coronary/Bypass Graft Clinical Results**
Dr. Abbara
- 9:30 a.m. – 9:45 a.m. **CT Soft and Hard (Calcified) Plaque**
Dr. Carr
- 9:45 a.m. – 10:00 a.m. **CMR Plaque Imaging**
Dr. Kramer
- 10:00 a.m. – 10:20 a.m. **Panel Discussion**
Drs. Manning, Carr, Abbara and Kramer
- 10:20 a.m. – 10:45 a.m. **Refreshment Break**
- 10:45 a.m. – 12:15 p.m. **Workshops**
MR Coronary Angiography *Drs. Manning and Sakuma*
CT Plaque Assessment *Drs. Carr and Taylor*
CT Coronary Angiography *Drs. Weigold and Abbara*
- 12:30 p.m. – 1:30 p.m. **Lunch Presentation**
Troubleshooting Cardiac and Vascular MR Imaging Artifacts
Mr. Darty and Ms. Comeau
- 12:30 p.m. – 1:30 p.m. **Optional**
Industry: Hands-on Labs
- 12:15 p.m. – 1:45 p.m. **Optional Mentored Cases (MRI 1)**
Dr. Hundley

Session IV: Myocardial Ischemia and Viability

Moderator: *Dr. Hundley*

- 1:45 p.m. – 2:25 p.m. **CMR - Stress Testing**
Dr. Arai

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Sunday, June 24 cont.

2:25 p.m. – 2:50 p.m. **CMR - Viability**
Dr. R. Kim

2:50 p.m. – 3:15 p.m. **PET CT, SPECT CT**
Dr. Dorbala

3:15 p.m. – 3:35 p.m. **Refreshment Break**

3:35 p.m. – 5:05 p.m. **Workshops**
CMR - Stress Testing *Drs. Arai and Hundley*
CMR – Viability *Drs. Kim and Kramer*
CCT – Perfusion/Viability *Drs. Abbara and Dorbala*

Adjourn

5:15 p.m. – 5:45 p.m. **Optional Presentation**
Advanced MR Analyses
Endothelial Assessments, Distensibility, Pulse Wave Velocity
Dr. Hundley

5:15 p.m. – 6:45 p.m. **Optional**
Mentored Cases (MRI 2)
Dr. Kim

7:00 p.m. – 8:30 p.m. **Optional**
Mentored Cases (MRI 3)
Dr. Kramer

Monday, June 25

Session V: Noncoronary Angiography by CMR and CCT **Moderator: Dr. Carr**

7:00 a.m. – 8:00 a.m. **Continental Breakfast**

8:00 a.m. – 8:25 a.m. **Noncoronary MRA**
Dr. Bluemke

8:25 a.m. – 8:50 a.m. **Noncoronary CTA**
Dr. Rubin

8:50 a.m. – 9:15 a.m. **CTA vs. MRA for Vascular Disease**
Dr. Hagspiel

9:15 a.m. – 9:45 a.m. **Case Presentations**

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Drs. Bluemke, Rubin and Hagspiel

- 9:45 a.m. – 10:15 a.m.** **Refreshment Break**
- 10:15 a.m. – 11:45 a.m.** **Workshops**
CMR Flow Measures in Cardiac and Valve Disease *Dr. Hundley*
MRA *Drs. Bluemke and Hagspiel*
CTA *Drs. Carr and Rubin*
- 11:45 a.m. – 1:15 p.m.** **Lunch**
- 11:45 a.m. – 1:15 p.m.** **Optional
Hands-on Laboratories**
Industry
- 11:45 a.m. – 1:15 p.m.** **Optional
Mentored Cases (CT)**
Dr. Abbara

Session VI: Integration of CMR and CCT into the Practice of Cardiovascular Medicine

Moderator: Dr. Kramer

- 1:15 p.m. – 1:40 p.m.** **CMR in Acute Chest Pain**
Dr. Arai
- 1:40 p.m. – 2:05 p.m.** **CCT in Acute Chest Pain**
Dr. Taylor
- 2:05 p.m. – 2:30 p.m.** **CMR in Cardiomyopathy**
Dr. Hundley
- 2:30 p.m. – 2:55 p.m.** **CCT in Cardiomyopathy**
Dr. Taylor
- 2:55 p.m. – 3:10 p.m.** **Refreshment Break**
- 3:10 p.m. – 3:30 p.m.** **CMR/CCT and Electrophysiology**
Dr. Halperin
- 3:30 p.m. – 4:00 p.m.** **The Unstable Coronary Plaque**
Dr. Fuster
- 4:00 p.m. – 4:30 p.m.** **Panel Discussion**
Drs. Arai, Taylor, Hundley, Halperin and Fuster
- Adjourn**
- 4:30 p.m. – 5:30 p.m.** **Optional
Advanced MR Analyses
Quantitative MR Perfusion**
Dr. Arai

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4:30 p.m. – 6:00 p.m. **Optional
Mentored Cases (CT)**
Dr. Taylor

6:15 p.m. – 7:45 p.m. **Optional
Mentored Cases (CT)**
Dr. Carr

Tuesday, June 26

Session VII: Getting Started in Clinical Practice Moderator: *Dr. Hundley*

7:00 a.m. – 8:00 a.m. **Continental Breakfast**

8:00 a.m. – 8:25 a.m. **Training and Credentialing — CMR/CCT**
Dr. Kramer

8:25 a.m. – 8:50 a.m. **Economics of CMR in Private Practice**
Dr. Martin

8:50 a.m. – 9:15 a.m. **Economics of CCT in Private Practice**
Mr. Attebery

9:15 a.m. – 9:40 a.m. **Legal Aspects of Joint Ventures and Self-Referral**
Mr. Sarraille

9:40 a.m. – 10:00 a.m. **Refreshment Break**

10:00 a.m. – 10:25 a.m. **Incidental Findings in CMR/CCT**
Dr. Taylor

10:25 a.m. – 10:50 a.m. **Integrated Noninvasive Imaging: Echocardiography, Magnetic
Resonance, Computed Tomography**
Dr. Hundley

10:50 a.m. – 11:15 a.m. **Integrating Cardiology and Radiology in a Cardiovascular Imaging Center**
Dr. Ziffer

11:15 a.m. – 11:40 a.m. **The Need for Appropriateness Criteria**
Dr. Kramer

11:40 a.m. – 12:05 p.m. **Panel Discussion**
Drs. Kramer, Martin, Taylor, Hundley, Ziffer, and Mr. Attebery and Sarraille

Adjourn

Credit statements and evaluations will be collected at this time.

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Technologist Session Agenda

Saturday, June 23

Technologist Session - 8:00 am – 2:00 pm

- 8:00 a.m. – 8:30 a.m.** **Cardiac Anatomy/Scanning Planes by CMRI and CCT**
Ms. Pereyra and Dr. Entrikin
- 8:30 a.m. – 9:00 a.m.** **Adenosine and Dobutamine Stress Testing by CMR**
Ms. Comeau
- 9:00 a.m. – 9:30 a.m.** **Delayed Enhancement**
Dr. Kim
- 9:30 a.m. – 10:00 a.m.** **Cardiac CT, The Basics**
Dr. Entrikin and Ms. Blackmon
- 10:00 a.m. – 10:30 a.m.** **Coronary Angiography by MRI**
Dr. Kim
- 10:30 a.m. – 10:50 a.m.** **Refreshment Break**
- 10:50 a.m. – 11:20 a.m.** **Coronary Angiography and Myocardial Function by CCT**
Dr. Entrikin
- 11:20 a.m. – 11:50 a.m.** **Congenital Heart Disease from The Technologists Perspective**
Mr. Darty
- 11:50 a.m. – 12:20 p.m.** **Non-ischemic Heart Disease by CMRI**
Ms. Comeau
- 12:20 p.m. – 12:50 p.m.** **Non-ischemic Heart Disease by CCT**
Dr. Entrikin
- 12:50 p.m. – 2:00 p.m.** **Lunch Presentation**
Cross Vendor Discussion: Forum with technologists to discuss differences in vendors to help technologists translate scanning parameters from one vendor to another.
Ms. Comeau - GE
Mr. Darty - Siemens
Ms. Pereyra - Philips