

THE STANFORD DEPARTMENT OF RADIOLOGY PRESENTS THE
10TH ANNUAL INTERNATIONAL SYMPOSIUM ON

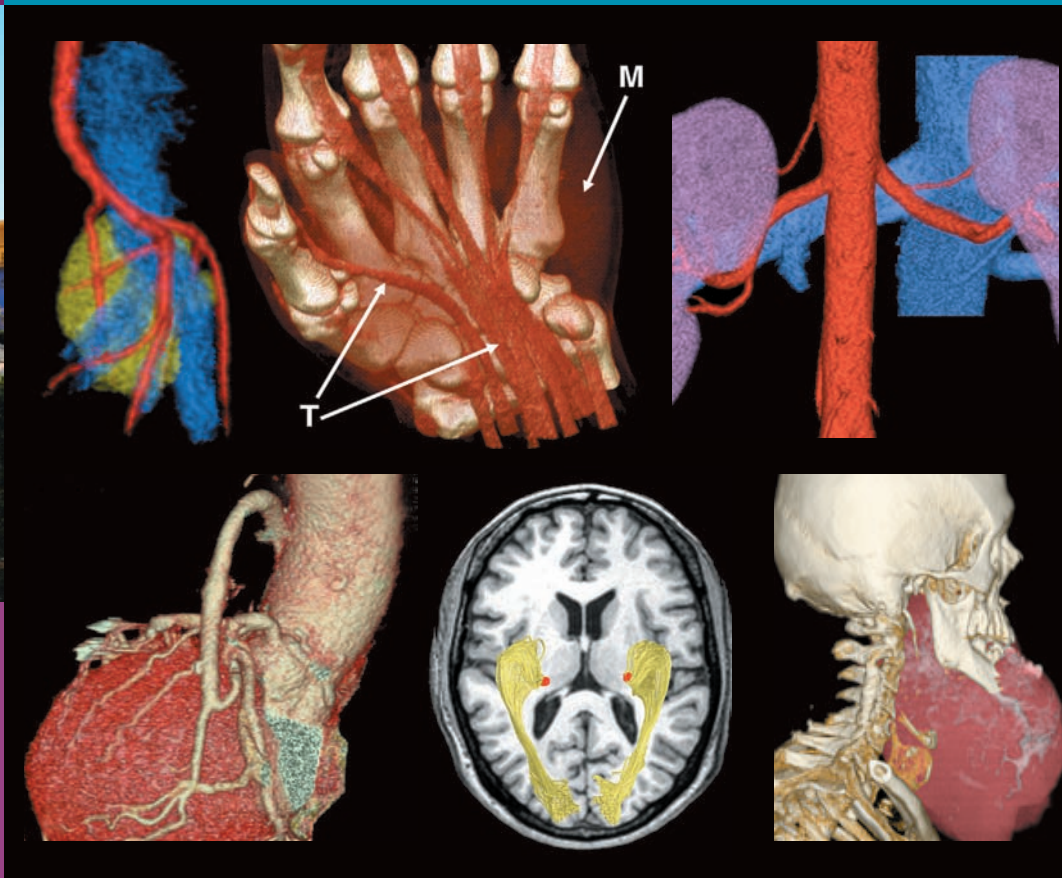
2008

Multidetector-Row CT



May 13-16, 2008

Wynn Las Vegas



PROGRAM HIGHLIGHTS

1. **Hot Topics Presented in Highly Focused 10 Minute Lectures**
2. **Hands-On Workstation Training**
Learn techniques for post processing in one-on-one sessions available throughout the course.
3. **Relevant and Extensive Exhibits**
Manufacturers of all major equipment, workstations and contrast, plus book vendors.

4. 6th Annual Original Workstation Face-Off

Observe physician-operators navigate the same diverse clinical datasets to identify key clinical findings.

5. Case Conference with the Professor

New interactive sessions led by our course faculty. Replicate the experience of reading a case with expert feedback!

NEW!

Course Directors:

Gary M. Glazer, M.D. and
Geoffrey D. Rubin, M.D.

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LEARNING OBJECTIVES

This course is intended for radiologists, medical imaging scientists, non-radiologist physicians, and other medical professionals such as radiologic technologists, nurses, and physician's assistants who are interested in CT technology and its applications.

At the conclusion of this activity, participants should be able to:

- Describe the present and future of CT technology
- Optimize new techniques for contrast medium delivery and understand how to manage contrast medium risks
- Implement current pediatric MDCT applications
- Implement new MDCT techniques for Trauma and Musculoskeletal imaging
- Optimize MDCT techniques for abdominal imaging in the liver, pancreas, kidneys and bowel
- Discuss the latest techniques and tools for workflow and image processing
- Optimize MDCT for the chest including evaluation of pulmonary nodules and understand the benefits of CAD
- Utilize MDCT for current neuro applications, including evaluation of cerebro-vascular disease, stroke, neuro CTA and CT perfusion
- Implement current methods and applications of vascular MDCT
- Utilize new techniques, indications and interpretations for Cardiac MDCT
- Identify uses of cardiac PET/CT and non-coronary applications
- Optimize coronary CTA for detection and characterization of coronary artery disease

STATEMENT OF NEED

Substantial developments in MDCT technology have resulted in a broad spectrum of new and improved clinical applications. These developments and techniques include wide-area detectors, whole-organ perfusion imaging, and dual energy imaging. This program aims to discuss the impact of new MDCT developments on clinical practice and help physicians learn how to advance their acquisition protocols and interpretations to take full advantage of these advances.

ACCREDITATION

The Stanford University School of Medicine is accredited by the Accreditation Council for Con-

tinuing Medical Education (ACCME) to provide continuing medical education for physicians.

CREDIT DESIGNATION

The Stanford University School of Medicine designates this educational activity for a maximum of **36.50 AMA PRA Category 1 Credits™**. Physicians should only claim credit commensurate with the extent of their participation in this activity.

Technologists: CE Category A credits have been applied for. Please check our website for updates.

ACCOMMODATIONS

Opening its doors to the public in 2005, the five star, five diamond Wynn hotel quickly gained its reputation as a leader in quality and luxury on the Las Vegas strip. Each room features 640 plus feet of floor space, complete with floor to ceiling windows, separate sitting area, 320 thread count sheets, and soaking tub with separate glass enclosed shower. Rooms come equipped with cordless phone, fax, high speed wireless internet, and flat screen LCD televisions in the bedroom and bathroom.

A special rate of **\$269.00** per room per night for a Resort Room have been reserved for our conference participants. This rate is for single or double occupancy and is subject to tax. To receive this special rate, please make your reservation no later than April 9, 2008. Rooms at this special rate have been reserved for attendees on a *first-come, first-served basis* and **may sell out before the cut-off date**.

Don't be disappointed by waiting too long; reserve your room now by contacting Wynn Room Reservations Department. Phone: 1-888-320-9966, or Fax: (702) 770-1571. Please identify yourself as a participant of the Stanford Radiology conference. For more information on the Wynn Las Vegas Resort, please visit their website at <http://www.wynnlasvegas.com/> or call (702) 770-7000, toll free: 1-888-320-7123.

TRAVEL

Palo Alto Village Travel has been chosen as the official travel agency for this conference. Palo Alto Village Travel's knowledgeable staff are at your service Monday-Friday, 8:30 am-5:30 pm PST. Call Palo Alto Village Travel at 1-800- 245-3260 (within U.S. or Canada) or (650) 326-0510.

Special airfare and discount car rentals:

Special meeting discounts on airfare and car rentals have been arranged for our attendees and their guests.

Call United Airlines at 1-800-521- 4041 and reference Meeting ID Code 502BH.

Call American Airlines at 1-800-433-1790 and reference Authorization Number A0618SS.

Call Avis Car Rental at 1-888-754-8878, and refer to AWD # D004951, or book online at <http://www.avis.com/>, and enter the AWD number on the reservation page.

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TUESDAY, MAY 13, 2008

6:30-7:00 am	Registration, Check-In, and Continental Breakfast
7:00-7:10	Course Welcome Gary M. Glazer, MD
7:10-7:20	Program Introduction Geoffrey D. Rubin, MD
SESSION I: <i>Moderator</i> 7:20-7:30	TECHNOLOGY: PRESENT AND FUTURE <i>Geoffrey D. Rubin, MD</i> A Few Useful Analogies for Understanding Multi-Detector Row Technology Dianna Cody, PhD
7:30-7:40	Technical Comparison of 64 Slice CT Scanners: X-Ray Source and Detectors James A. Brink, MD
7:40-7:50	The Importance of Adaptive Z-Collimation in Spiral CT Scanning Willi Kalender, PhD
7:50-8:00	Lessons from Lot's Wife: Looking Back May Not Be So Bad – Principles of Spatial and Contrast Resolution in Everyday CT Imaging Jay Cinnamon, MD
8:00-8:10	A Stroll Down Multi-Detector Row CT Artifact Lane Dianna Cody, PhD
8:10-8:20	Cardiac and Thoracic CT Should Be Carried Out at Low Voltages Willi Kalender, PhD
8:20-8:30	First Clinical Experience with a Novel Adaptive CT Scanner U. Joseph Schöpf, MD
8:30-8:40	The Scatter Environment in MDCT Rebecca Fahrig, PhD
8:40-8:50	Relative Sensitivity of Dual Energy CT Norbert J. Pelc, ScD
8:50-9:00	LSO, BGO, TOF: Sorting Through the Latest PET/CT Designs Andrew Quon, MD
9:00-9:15	Questions and Answers
9:15-9:35	Coffee Break & View Exhibits
SESSION II: <i>Moderator</i> 9:35-9:45	RADIATION EXPOSURE <i>Geoffrey D. Rubin, MD</i>
9:45-9:55	Trends in MDCT Utilization and Technique: Mandate for Radiation Dose Control James A. Brink, MD
9:55-10:05	Estimating Radiation Dose to Glandular Breast Tissue: The Effect of Tube Current Modulation Michael F. McNitt-Gray, PhD
10:05-10:15	Characteristics and Radiation Dose of Area Detector CT Kazuhiro Katada, MD
10:15-10:25	Improved Control of the Dose vs. Image Quality Trade-Off with a "Virtual Bowtie" in Inverse Geometry CT Norbert J. Pelc, ScD
10:25-10:35	Ionizing Radiation: Good For What Ails You Cynthia H. McCollough, PhD
10:35-10:45	What are the Realistic Radiation Risks from Cardiac CT in Clinical Patient Populations? U. Joseph Schöpf, MD
10:45-10:55	Ionizing Radiation as a Carcinogen Cynthia H. McCollough, PhD
10:55-11:05	Radiation Dose Monitoring and Reporting for MDCT: Local, National, and Global Initiatives James A. Brink, MD
11:05-11:20	Is CT Safe for Patients With Implantable Cardiac Devices? Cynthia H. McCollough, PhD
SESSION III: <i>Moderator</i> 11:20-11:30	Questions and Answers CONTRAST MEDIUM RISK <i>Dominik Fleischmann, MD</i>
	How Common is Clinically Significant Contrast-Induced Nephropathy Following Computed Tomography? Steven D. Weisbord, MD, MSc, FASN



11:30-11:40 **Reducing The Risk of Contrast Induced Nephropathy: Data From Recent Trials**
Jonathan S. Reiner, MD

11:40-11:50 **The Role of Intravenous Fluids for the Prevention of Contrast-Induced Nephropathy**
Steven D. Weisbord, MD, MSc, FASN

11:50-12:00 pm **Iodine vs Gadolinium: An Update**
Robert J. Herkens, MD

12:00-12:10 **Is Oral Hydration Effective for the Prevention of Contrast-Induced Nephropathy?**
Steven D. Weisbord, MD, MSc, FASN

12:10-12:25 **Questions and Answers**

12:25-1:55 **Lunch Break**

SESSION IV: PEDIATRICS
Moderator

1:55-2:05 **Pediatric MDCT Techniques: What Doesn't Work and Why**
Donald P. Frush, MD

2:05-2:15 **Low Dose CT Imaging in CF Patients**
Beverley Newman, BSc, MB, BCh, FACR

2:15-2:25 **Sedation and Anesthesia for Pediatric CTA**
Francis Chan, MD, PhD

2:25-2:35 **MDCT Craniofacial Anatomy: Beyond Sagittal and Coronal Craniosynostosis**
Dianna M. E. Bardo, MD

2:35-2:45 **Common Vascular Rings – The ABC's of Imaging Interpretation**
Beverley Newman, BSc, MB, BCh, FACR

2:45-2:55 **MDCT of the Pediatric Cervical Spine: Normal Anatomy is Often Mistaken for Pathology**
Dianna M. E. Bardo, MD

2:55-3:05 **Pediatric Non Cardiac CTA: A Primer**
Donald P. Frush, MD

3:05-3:15 **Choose Between MRA and CTA: A Rational Approach**
Francis Chan, MD, PhD

3:15-3:25 **Small Child, Wide Detector: Are They Simpatco?**
S. Bruce Greenberg, MD

3:25-3:35 **Pediatric Appendicitis and MDCT: What We Have Learned**
Donald P. Frush, MD

3:35-3:50 **Questions and Answers**

3:50-4:10 **Coffee Break & View Exhibits**

SESSION V: TRAUMA/MUSCULOSKELETAL
Moderator

4:10-4:20 **The Use of the Dual Source CT in the Emergency Polytrauma Patient**
Savvas Nicolaou, MD, FRCP

4:20-4:30 **MDCT of Active Arterial Bleeding – What Does It Mean?**
Lewis K. Shin, MD

4:30-4:40 **Polytrauma: Integration of Lower Extremity CTA With Torso CT**
Jorge A. Soto, MD

4:40-4:50 **Automated Computer Assessment of Non-Contrast CT Studies in Head Trauma Patients**
Max Wintermark, MD

4:50-5:00 **Emerging role for Computer Aided Detection (CAD) with MDCT in the ER**
Dushyant Sahani, MD

5:00-5:10 **CTA of Traumatic Injuries of the Extracranial Carotid and Vertebral Arteries**
W. Dennis Foley, MD

5:10-5:20 **Curved Reformatted Imaging in the Evaluation of Mandibular Trauma**
Jay Cinnamon, MD

5:20-5:30 **Characterizing Spinal Injury at the Cranio-Cervical Junction: Who, What, Where?**
Megan Strother, MD

5:30-5:40 **Characterization of Hip and Pelvic Fractures**
Garry E. Gold, MD

5:40-5:50 **Pelvic CT Angiography in Trauma: When and How**
Jorge A. Soto, MD

5:50-6:00 **The Utilization of the Dual Source CT for Musculoskeletal Applications: Confirming the Pattern of Distribution of Gout**
Savvas Nicolaou, MD, FRCP

6:00-6:10 **Orthopedic Hardware**
Garry E. Gold, MD

6:10-6:25 **Questions and Answers**

WEDNESDAY, MAY 14, 2008

6:30-7:00 am **Registration, Check-In, and Continental Breakfast**

SESSION VI: ABDOMEN I: LIVER, AND PANCREAS
Moderator

7:00-7:10 **10 Tips for Performing MDCT in Large Patients**
Rendon C. Nelson, MD

7:10-7:20 **Grey or White – What is Right? Oral Contrast Media Choices for MDCT, Protocol Optimization and Radiation Dose**
Dushyant Sahani, MD

7:20-7:30 **Optimal Scan Technique of Early and Late Arterial Phase MDCT Imaging of the Liver Tumor**
Takamichi Murakami, MD, PhD

7:30-7:40 **Dual Energy CT: Use of the Virtual Un-Enhanced Image for Quantifying Enhancement**
Rendon C. Nelson, MD

7:40-7:50 **Clinical Utility of 4D Volumetric Data of MDCT for Upper Abdominal Disease**
Takamichi Murakami, MD, PhD

7:50-8:00 **Perfusion in CT Oncology Imaging: A New Mainstream Application?**
Axel McKenna-Küttner, MD

8:00-8:10 **Pearls and Pitfalls of Using Contrast in PET/CT**
Andrew Quon, MD

8:10-8:20 **How Should We Manage Incidental Small Pancreatic Cystic Lesions?**
R. Brooke Jeffrey, MD

8:20-8:30 **What Are the Established Criteria for Resectability of Pancreatic Carcinoma?**
R. Brooke Jeffrey, MD

8:30-8:40 **Is There a Benefit of Dual Energy CT in Patients with Pancreatic Tumors?**
Anno Graser, MD

8:40-8:50 **Evaluation of Hypervascular Liver Lesions with a Low kV, High mA CT Technique**
Rendon C. Nelson, MD

8:50-9:00 **Detection of Hepatocellular Carcinoma (HCC) in Patients with Cirrhosis: Intraindividual Comparison of Multiphasic 64-Slice CT and Contrast Enhanced MR Imaging with Explantation Correlation**
Carlo Catalano, MD

9:00-9:10 **Budd-Chiari Syndrome: More Common and Important than You Thought**
Michael P. Federle, MD

9:10-9:20 **Rotational C-Arm CT of the Liver**
Christoph R. Becker, MD

9:20-9:35 **Questions and Answers**

9:35-9:55 **Coffee Break & View Exhibits**

SESSION VII: GENITOURINARY AND GASTROINTESTINAL
Moderator

9:55-10:05 **How to Miss a Renal Mass: Guide to Pitfalls and Solutions**
Elliot K. Fishman, MD

10:05-10:15 **Subtraction MDCT of the Kidneys: Technique, Applications and Pitfalls**
Dushyant Sahani, MD

10:15-10:25 **The Utilization of the Dual Source CT to Characterize Renal Stones and Effects on Patient Management**
Savvas Nicolaou, MD, FRCP

10:25-10:35 **Dual Energy CT of Renal Tumors: Can Virtual Non-Contrast Images Replace the Un-Enhanced Phase?**
Anno Graser, MD

10:35-10:45 **Slice Renal Perfusion – New Application with New Insights?**
Patrik Rogalla, MD

10:45-10:55 **Technical Pitfalls in CT Urography**
Lawrence C. Chow, MD

10:55-11:05 **Interpretive Pitfalls in CT Urography**
Lawrence C. Chow, MD

11:05-11:15 **Omental Infarction: An Overlooked Cause of RLQ Pain**
Michael P. Federle, MD

11:15-11:25 **Understanding and Diagnosing Internal Hernias**
Michael P. Federle, MD

11:25-11:35 **Oral Tagging for CT Colonography: Why and How**
Jorge A. Soto, MD

11:35-11:45 **CT Colonography: Key Recent Studies**
Lewis K. Shin, MD

11:45-12:00 pm **Questions and Answers**

12:00-1:30 **Lunch Break**

SESSION VIII: WORKFLOW/IMAGE PROCESSING
Moderator

1:30-1:40 **Tumor Volumetry in Oncology: Beyond Rescist**
Elliot K. Fishman, MD

1:40-1:50 **Simple Methods for Processing-64 MDCT Data on Scanner Console for Presurgical Planning in the Abdomen**
Dushyant Sahani, MD

1:50-2:00 **How Differences in 3D Workstations Impact Work Flow**
Laura Pierce, MPA, RT(CT)

2:00-2:10 **Dual Energy CT Imaging – Subtraction and Advanced Post-Processing**
Johnny Vlahos, MB, BS, BSc

2:10-2:20 **Current Post-processing Responsibilities of CT Technologists**
Laura Pierce, MPA, RT(CT)

2:20-2:30 **Future Tools for Visualization and Discovery**
Sandy Napel, PhD

2:30-2:40 **Enterprise-Wide 3D: Evolving Models**
Geoffrey D. Rubin, MD

2:40-2:55 **Questions and Answers**

2:55-3:25 **Coffee Break & View Exhibits**

3:25-6:20 **6th Annual Workstation Face-Off**
Moderator

THURSDAY, MAY 15, 2008

6:30-7:00 am **Registration, Check-In, and Continental Breakfast**

SESSION IX: CHEST
Moderator

7:00-7:10 **Dual Energy CT of Lung Perfusion**
Christoph R. Becker, MD

7:10-7:20 **PIOPED II and Other Recent Thromboembolism Imaging Trials: Impact on Clinical Practice**
Ann N. Leung, MD

7:20-7:30 **Ventilation CT: Competing with Perfusion Scintigraphy**
Patrik Rogalla, MD

7:30-7:40 **CT Venography and Therapeutic Options for Venous Occlusion in the Chest**
Bart Dolmatch, MD

7:40-7:50 **Missed Lung Cancer on Chest Radiograph and CT**
Charles S. White, MD

7:50-8:00 **Ground Glass Nodules: Can We Ignore Them?**
Ann N. Leung, MD

8:00-8:10 **Who Benefits From Lung CAD?**
Justus E. Roos, MD

8:10-8:20 **Update on the Lung Image Database Consortium (LIDC): Current and Future Status of Public Image Databases**
Michael F. McNitt-Gray, PhD

8:20-8:30 **Lung CAD and the LIDC**
Geoffrey D. Rubin, MD

8:30-8:40 **Computer Aided Diagnosis – Nodule Characterization**
Johnny Vlahos, MB, BS, BSc

8:40-8:50 **CT Imaging as a Biomarker: The Role of CT in Evaluating Lung Cancer Treatment Efficacy**
Michael F. McNitt-Gray, PhD

8:50-9:00 **Strategies for Efficient Chest CT Interpretation**
Justus E. Roos, MD

9:00-9:10 **Automated Computer Scoring of the Extent and Severity of Bronchiectasis: A Novel Approach**
David P. Naidich, MD

9:10-9:20 **MDCT Adaptations for HRCT Imaging**
Johnny Vlahos, MB, BS, BSc

9:20-9:30 **New Drugs – New Pulmonary Toxicities**
Johnny Vlahos, MB, BS, BSc

9:30-9:40 **Usual Interstitial Pneumonia (UIP/IPF) vs. Nonspecific Interstitial Pneumonia (NSIP): Can We Tell the Difference on HRCT?**
David P. Naidich, MD

9:40-9:50 **Virtual Bronchoscopic – CT Guided Transbronchial Needle Biopsy in Patients with Diffuse Infiltrative Lung Disease: Is There a Role?**
David P. Naidich, MD

9:50-10:05 **Questions and Answers**

10:05-10:25 **Coffee Break & View Exhibits**

SESSION X: NEURO
Moderator
Greg Zaharchuk, MD, PhD

10:25-10:35 **Minimizing Radiation Risks with MDCT in Neuroradiology**
Megan K. Strother, MD

10:35-10:45 **Intracranial CT Angiography Pearls**
Jay Cinnamon, MD

10:45-10:55 **Use of Area Detector CT in the Diagnosis of Cerebrovascular Diseases**
Kazuhiro Katada, MD

10:55-11:05 **320-Slice Dynamic Volume Neuro CT Angiography**
Kieran J. Murphy, MD

11:05-11:15 **Dural Venous Sinus Thrombosis: What's Clot and What's Not?**
Megan K. Strother, MD

11:15-11:25 **CTA of Arteriovenous Malformation**
Greg Zaharchuk, MD, PhD

11:25-11:45 **Questions and Answers**

11:45-1:15 pm **Lunch Break**

1:15-1:25 **Cervical CT Angiography Pearls**
Jay Cinnamon, MD

1:25-1:35 **High-Resolution CT Imaging of Carotid Atherosclerotic Plaques and Associated Risk of Stroke**
Max Wintermark, MD

1:35-1:45 **Interpreting CT Brain Perfusion in Acute Ischemic Stroke**
Greg Zaharchuk, MD, PhD

1:45-1:55 **Perfusion-CT Imaging of the Blood-Brain Barrier in Stroke Patients**
Max Wintermark, MD

1:55-2:05 **CT Brain Perfusion: How Quantitative Is It?**
Greg Zaharchuk, MD, PhD

2:05-2:15 **320-Slice Dynamic Volumetric Stroke Evaluation**
Kieran J. Murphy, MD

2:15-2:25 **Cardiac CT Imaging in Acute Stroke Patients: The Triple Rule-Out (Cerebral, Carotids, Cardiac)**
Max Wintermark, MD

2:25-2:35 **Diagnosis of Brain Tumor Using Area Detector CT**
Kazuhiro Katada, MD

2:35-2:45 **Breathing Maneuvers and Bolus Techniques: MDCT Protocols for the Soft-Tissue Neck**
Megan K. Strother, MD

2:45-3:00 **Questions and Answers**

3:00-3:20 **Coffee Break & View Exhibits**

Session XI: Vascular
Moderator
Dominik Fleischmann, MD

3:20-3:30 **Low Contrast Volume Abdominal CTA**
Constantino S. Pena, MD

3:30-3:40 **CT Thoracic Angiography: Prospective versus Retrospective Gating**
W. Dennis Foley, MD

3:40-3:50 **Penetrating Atherosclerotic Ulcers and Other Ulcer-Like Lesions of the Aorta**
Dominik Fleischmann, MD

3:50-4:00 **Intramural Hematoma Is Not a Disease**
Dominik Fleischmann, MD

4:00-4:10 **CTA for Planning Treatment of Abdominal Aortic Aneurysm**
Constantino S. Pena, MD

4:10-4:20 **CTA Assessment of Endovascular Treatment for Aortic Dissection**
Bart Dolmatch, MD

4:20-4:30 **CTA in the Evaluation of Endoleaks**
Constantino S. Pena, MD

4:30-4:40 **Dual Energy CT for the Detection of Endoleaks**
Christoph R. Becker, MD

4:40-4:50 **Imaging the Aorta After Trauma**
Charles S. White, MD

4:50-5:00 **Dual Energy CT Imaging of the Aorta and Pulmonary Vasculature**
Johnny Vlahos, MB, BS, BSc

5:00-5:10 **CTA of the SMA and Celiac Axis: Non-Neoplastic Disease**
Elliot K. Fishman, MD

5:10-5:20 **Lower Extremity CTA in 2008: When Is it Most Useful?**
Dominik Fleischmann, MD

5:20-5:30 **Evaluation of In-Stent Restenosis in Extremity Arteries**
W. Dennis Foley, MD

5:30-5:40 **Lower Extremity Swelling and Phlegmasia: The Role of CT Venography**
Bart Dolmatch, MD

5:40-5:50 **Metabolic Syndrome and Accelerated Atherosclerosis: From Clinical Data to Quantitative Arterial Involvement**
Carlo Catalano, MD

5:50-6:00 **PET-CT Imaging of Atherosclerotic Plaques**
Max Wintermark, MD

6:00-6:15 **Questions and Answers**

FRIDAY, MAY 16, 2008

6:30-7:00 am **Registration, Check-In, and Continental Breakfast**

SESSION XII: CARDIAC I: TECHNIQUE, INDICATIONS, AND INTERPRETATION
Moderator
Geoffrey D. Rubin, MD

7:00-7:10 **Coronary CTA Technique Fundamentals for 64-Row Scanners**
Charles S. White, MD

7:10-7:20 **Dual-Energy CT Imaging of the Heart for Diagnosing Coronary Artery Stenosis and Myocardial Ischemia**
U. Joseph Schöpf, MD

7:20-7:30 **Prospective Gating: 18 Months Experience in 2000 Patients**
James P. Earls, MD

7:30-7:40 **Prospectively ECG-triggered Dual-Source CT of the Heart: Patient Selection, Image Quality, Radiation Dose**
U. Joseph Schöpf, MD

7:40-7:50 **Beta Blockers: Review of Success in 1800 Serial Patients**
James P. Earls, MD

7:50-8:00 **Are Beta Blockers Still Needed in the Emergency Setting for Patients with Chest Pain Undergoing Coronary CT Angiography with the Dual Source CT?**
Savvas Nicolaou, MD, FRCP

8:00-8:10 **Strategies for Dose Reduction in Cardiac CT: Lessons We Learnt From Clinical Practice**
Axel McKenna-Küttner, MD

8:10-8:20 **Cardiac Imaging – CMR and CCT: What Are Their Safety Records, What Are the Potential Risks?**
J. Jeffrey Carr, MD

8:20-8:30 **Patient Based Contrast Media Dosing for Optimizing Diagnostic Quality and Minimizing Contrast Load at Coronary CTA**
U. Joseph Schöpf, MD

8:30-8:40 **How to Contrast the Right Ventricle in Cardiac CTAs for Functional Diagnosis**
Axel McKenna-Küttner, MD

8:40-8:50 **Theoretical Effect of Contrast Bolus Duration on Myocardial Perfusion Imaging by MDCT**
Andrew Arai, MD

8:50-9:00 **Cardiac Imaging in the Interventional Suite**
Rebecca Fahrig, PhD

9:00-9:10 **Comparison of Semi-Automated Ejection Fraction Software**
Laura Pierce, MPA, RT (CT)

9:10-9:20 **TBA**
Mathias Prokop, MD

9:20-9:35 **Questions and Answers**

9:35-9:50 **Coffee Break and View Exhibits**

SESSION XIII: CARDIAC II: NON-CORONARY CARDIAC CT
Moderator
Geoffrey D. Rubin, MD

9:50-10:00 **Surgically Important Aortic Root Anatomy**
Scott Alexander, MD

10:00-10:10 **Technical Tips for Aortic Root Imaging**
Dominik Fleischmann, MD

10:10-10:20 **Imaging Mechanical Valves: How and Why**
Humberto Wong, MD

10:20-10:30 **Low Dose Cardiac CTA for Ventricular Function**
Francis Chan, MD, PhD

10:30-10:40 **CTA Perfusion – The New Frontier**
João A. C. Lima, MD

10:40-10:50 **CT Myocardial Perfusion Imaging: 64 to 256 Rows**
Richard T. George, MD

10:50-11:00 **Myocardial Perfusion and Enhancement: Nuc and Cath Correlation**
Dianna M. E. Bardo, MD

11:00-11:10 **Adenosine Stress MDCT Myocardial Perfusion Imaging**
Richard T. George, MD

11:10-11:20 **CTA of Adults with Congenital Heart Disease**
S. Bruce Greenberg, MD

11:20-11:30 **TBA**
Mathias, Prokop, MD

11:30-11:45 **Questions and Answers**

11:45-1:15 pm **Lunch Break**

SESSION XIV: CARDIAC III: CORONARY CTA
Moderator
Geoffrey D. Rubin, MD

1:15-1:25 **Cardiac CT – Top 10 Indications**
Charles S. White, MD

1:25-1:35 **Is That Stenosis Significant? Insights From CORE-64**
Julie M. Miller, MD, FACC

1:35-1:45 **Tomographic Intravascular Analysis: The CTA IVUS Equivalent**
Harvey S. Hecht, MD, FACC

1:45-1:55 **CORE-64 – Results**
Julie M. Miller, MD, FACC

1:55-2:05 **Results of the MECCA Trial – Prospective Multicenter Open-Label 64-Detector Row CT Versus Quantitative Coronary Angiography**
James K. Min, MD

2:05-2:15 **Coronary CTA Outcome Data**
Matthew Budoff, MD

2:15-2:25 **Patient, Vessels, or Segments – Does it Matter?**
Julie M. Miller, MD, FACC

- 2:25-2:35 **Cost-Effectiveness of MDCT Compared to Nuclear Stress Testing**
James K. Min, MD
- 2:35-2:45 **Triple Rule Out Concept in Chest Pain: What Does it Really Tell Us?**
Axel McKenna-Küttner, MD
- 2:45-2:55 **Triple Rule Out for Acute Chest Pain: Our Current Technique**
William P. Shuman, MD, FACR
- 2:55-3:05 **MDCT for Acute Chest Pain in the Emergency Room: Are We There Yet?**
Charles S. White, MD
- 3:05-3:15 **ECG Gated CT of Acute Chest Pain in the ER: Who Should and Who Should Not Get It**
William P. Shuman, MD, FACR
- 3:15-3:25 **Coronary Calcium- What You Need to Know in 2008**
J. Jeffrey Carr, MD
- 3:25-3:35 **Risk Stratification with Coronary CT**
Matthew Budoff, MD
- 3:35-3:50 **Questions and Answers**
- 3:50-4:10 **Coffee Break**
- 4:10-4:20 **Should We Image Asymptomatic Individuals at Risk for MI and Sudden Death?**
João A. C. Lima, MD
- 4:20-4:30 **Clinical Impact of Whole Body Computed Tomography Angiography (WB-CTA) in Patients with Suspected Coronary Artery Disease**
Carlo Catalano, MD
- 4:30-4:40 **MDCT Coronary Plaque Predictors of Abnormal ECG Stress Tests and Low Functional Capacity**
James K. Min, MD
- 4:40-4:50 **The National Institutes of Health Roadmap – How MDCT Could Be Instrumental in Preclinical Diagnosis of CAD**
Andrew Arai, MD
- 4:50-5:00 **Coronary CT Angiography Prior To, and After, Valve Replacement Surgery – What You Need to Know Beyond Obstructive Coronary Artery Disease**
J. Jeffrey Carr, MD
- 5:00-5:10 **Indications for Coronary CTA After Cardiac Catheterization**
Harvey S. Hecht, MD, FACC
- 5:10-5:20 **MDCT of Stents – Early Experience With the High Definition MDCT Scanner**
James K. Min, MD
- 5:20-5:30 **Evaluation of In-Stent Restenosis by Coronary CTA**
Harvey S. Hecht, MD, FACC
- 5:30-5:40 **Assessment of Bypass Grafts**
Charles S. White, MD
- 5:40-5:50 **Cardiac CT – Incidental Findings Are Important**
Charles S. White, MD
- 5:50-6:00 **Cardiac CT – Incidental Findings Are NOT Important**
Matthew Budoff, MD
- 6:00-6:10 **Joint Cardiac Imaging Program: Models for Success and Failure**
Dianna M. E. Bardo, MD
- 6:10-6:25 **Questions and Answers**

All lectures will be held in the meeting rooms of the Wynn Hotel. Pre-registration and check-in will be from 3:00-5:00 pm Monday, May 12th, and will continue on Tuesday, May 13, at 6:30 am.

Disclaimer: The information provided at this CME/CE activity is for continuing education purposes only and is not meant to substitute for the independent medical/clinical judgment of a healthcare provider relative to diagnostic and treatment options of a specific patient's medical condition.

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**Note: Not certified for CME credit.*

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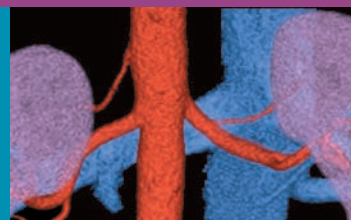


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