6th Annual International Symposium on
Multidetector-Row CT

Course Director: Gary M. Glazer, M.D.
Program Director: Geoffrey D. Rubin, M.D.

June 23-26, 2004
Ritz-Carlton, San Francisco

The most comprehensive and valuable course on MDCT
• 55 world-renowned speakers
• Practical & current clinical sessions
• Workstation Face-off
• Hands-on Workstation Training
Accommodations

Located in a 1909 Nob Hill landmark, The Ritz-Carlton, San Francisco is the City’s only hotel to capture both Mobil Travel Guide’s Five Stars and the American Automobile Association’s Five Diamonds for 2003 – the hospitality industry’s most distinguished awards. The Dining Room at The Ritz-Carlton, San Francisco is also the City’s only Five Diamond restaurant. The Ritz-Carlton, San Francisco, at 600 Stockton Street at California, is minutes away from Union Square shopping, Fisherman’s Wharf and the Financial District, and is located across the street from the California Street Cable Car line. The hotel also features a state of the art Fitness Center with indoor pool, steam and sauna. Each guest room has Egyptian cotton sheets, down comforters and feather beds.

Special rates of $265.00 per room per night for a Deluxe Room have been reserved for our conference participants. Rates are for single or double occupancy, and are subject to tax. To receive this special rate please make your reservation no later than May 21, 2004. After May 24th, rooms at our discount rates cannot be guaranteed. Rooms at this special rate will be 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 calling The Ritz-Carlton, San Francisco Room Reservations Department at (415) 296-7465, or 1-800-241-3333. Please identify yourself as a participant of the conference. For more information on The Ritz-Carlton, San Francisco, visit their website: http://www.ritzcarlton.com/hotels/san_francisco/.

Course Enrollment

Enrollment and instant email confirmation is available 24 hours a day at http://radiologycme.stanford.edu.
You can also call us toll free at (888) 556-2230, direct at (650) 473-5052, or email us at radiologycme@med.stanford.edu.
You may also complete and return the course enrollment form by mail or fax.
Refunds – Full refunds, less a $75.00 administrative fee, will be made to those providing written notification of withdrawal by May 24, 2004. After that date, no refunds will be given.

Recreation, Activities and Attractions

Enjoy the area’s many attractions, and exhibits from a tour of Alcatraz Island to an afternoon in the Academy of Sciences. Visit the Exploratorium, or the new “walk-through” aquarium at Pier 39. Bike across the Bridge, or up to Mt. Tam in Marin, rollerblade in Golden Gate Park, Windsurf or sail in the Bay. Enjoy a memorable walk in Muir Woods where the redwoods have stood for centuries. Take a ferry across the Bay to Angel Island to picnic and hike. Golfers will want to take advantage of golfing at the Presidio Golf Course. In a city known for its ethnic and cultural diversity, San Francisco’s 65 museums are no exception. From masterpieces to multimedia, The City’s museums are among the finest in the world. The De Young, the Asian Art Museum and the California Palace of the Legion of Honor are among the most well known.

In the evening you may choose to enjoy a Tony-award winning show or a South of Market dance club. With over 90 theaters in the Bay Area, shows and cabarets run nightly, including the incomparable “Beach Blanket Babylon”.

For more information on visiting San Francisco, please call the San Francisco Visitors Bureau at 415-227-2678 or visit their web site at http://www.sfvisitor.org/visitorinfo/index.html.

Travel and Transportation

Special Airfares and discount car rentals: 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, 8:30am-5:30pm, PST. Call Palo Alto Village Travel at (800)-245-3160 or (650) 326-0510.

Special meeting discounts on airfare and car rentals have been arranged for our attendees and their guests. The airlines offer discounts off published fares and special area pricing rates.
- Call American Airlines at (800) 433-1790, and reference Tour Code Number 3164AC
- Call Delta Airlines at (800) 241-6760, and reference File Number 199751A.
- Call United Airlines at (800) 521-4041 and reference Meeting ID Code 502BH.
- Call Hertz Car Rental at (800) 654-2240, and refer to CV # 01YN0010.
Course Objectives

This course is intended for Radiologists, Medical Imaging Scientists, Radiology Technologists and Non-Radiologist Physicians interested in CT technology and applications. Topics include:

- Basic Principles of Multidetector CT
- Imaging Quality and Radiation Dose
- 3D Techniques
- Cardiac Applications
- Pediatrics Applications
- Abdominal Applications
- Thoracic Applications
- Musculoskeletal Applications
- Neuroradiology Applications
- Screening Applications

Accreditation

Stanford University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to sponsor continuing medical education for physicians.

Stanford University School of Medicine designates this continuing medical education activity for up to 30 credit hours in Category 1 of the Physician's Recognition Award of the American Medical Association provided it is completed as designed.

Technologists: ARRT Category A CE credit has been applied for.

Course Director
Gary M. Glazer, MD
Emma Pfeiffer Menner Professor in the Medical Sciences, Professor and Chairman, Department of Radiology, Stanford University School of Medicine

Program Director
Geoffrey D. Rubin, MD
Associate Professor, Chief of Cardiovascular Imaging, Co-Director 3D Laboratory, Stanford University School of Medicine

Guest Faculty
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Associate Professor, Section Chief Computed Tomography, Department of Clinical Radiology, University of Munich

Phillip M. Boiselle, MD
Director, Thoracic Imaging and Associate Director of Radiology Residency Program, Beth Israel Deaconess Medical Center, Assistant Professor, Harvard Medical School

Jerry Breen, MD
Consultant in Cardiovascular Radiology, Mayo Clinic, Rochester MN

Jay Cinnamon, MD
Quantum Radiology Northwest, Marrietta, Georgia

Fergus V. Coakley, MD
Associate Professor and Chief, Abdominal Imaging, University of California School of Medicine at San Francisco

Adrian K. Dixon, MD
Professor of Radiology, Addenbrooke’s NHS Trust and the University of Cambridge, England

Bart L. Dolmatch, MD
Professor of Radiology, Director of Vascular and Interventional Radiology, UT-Southwestern Medical Center, Dallas, Texas

Theodore J. Dubinsky, MD
Associate Professor of Radiology, Obstetrics and Gynecology, University of Washington, Director of Body Imaging, Harborview Medical Center

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R. C. Gilkeson, MD
Chief of Cardiothoracic Imaging, University Hospitals of Cleveland, CWRU School of Medicine

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Associate Professor, University of Arkansas for Medical Sciences and Arkansas Children’s Hospital

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Willi Kalender, MD, PhD
Institut fuer Medizinische Physik, University of Erlangen-Nuernberg

Kazuhiko Katada, MD
Professor and Chairman, Dept of Radiology, Fujita-Health University, School of Medicine

Axel Kuettner, MD
Department of Diagnostic Radiology, Eberhard-Karls-University Tuebingen

Joan M. Lacomis, MD
Clinical Associate Professor of Radiology, University of Pittsburgh Medical Center

João A. C. Lima, MD, MBA
Associate Professor of Medicine and Radiology, Johns Hopkins University

Michael Macari, MD
Associate Professor of Radiology, New York University

Cynthia McCollough, PhD
Associate Professor of Radiological Physics, Department of Radiology, Mayo Clinic, Rochester, MN

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Associate Professor of Radiological Physics, Department of Radiology, Mayo Clinic, Rochester, MN

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Research Fellow, Departments of Radiology and Cardiology, Erasmus Medical Center, The Netherlands

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Fellow of Radiology, Cardiovascular MRI and CT, University of Munich

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Professor of Radiology, Harvard Medical School, Director of Emergency Radiology, Massachusetts General Hospital

Nathan Peled, MD
Head, Department of Radiology, Carmel Medical Center, Haifa, Israel

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Associate Professor of Radiology, University Medical Center Utrecht, The Netherlands

Patrik Rogalla, MD
Head, CT Division, Department of Radiology, Charité Hospital, Universitaetsmedizin Berlin, Germany

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Professor of Radiology, Harvard Medical School, Director, CT Services, Massachusetts General Hospital

U. Joseph Schoepf, MD
Department of Radiology, Brigham and Women’s Hospital, Harvard Medical School

Aart J. van der Molen, MD
Section of Body CT, Leiden University Medical Center, Leiden, The Netherlands

Richard Webb, MD
Professor of Radiology, Chief of Thoracic Imaging, University of California School of Medicine at San Francisco

David Yankelevitz, MD
Professor of Radiology, The New York Presbyterian Hospital, New York, New York

Stanford Faculty
Patrick D. Barnes, MD
Chief of Pediatric Neuroradiology, Lucile Salter Packard Children’s Hospital, Associate Professor of Radiology

Christopher F. Beaulieu, MD, PhD
Associate Professor of Radiology, Chief of Musculoskeletal Radiology

Fandics Chan, MD
Professor of Radiology, Co-Director, 3D Laboratory

Lawrence Chow, MD
Assistant Professor of Radiology

Terry S. Desser, MD
Assistant Professor of Radiology

Huy M. Do, MD
Assistant Professor of Radiology and Neurosurgery, Interventional Neuroradiologist

Dominik Fleischmann, MD
Assistant Professor of Radiology

Stephen P. Fortmann, MD
C. F. Rehnborg Professor in Disease Prevention, Director, Stanford Prevention Research Center

Sanjiv Sam Gambhir, MD, PhD
Director, Molecular Imaging Program at Stanford (MIPS), Head, Division of Nuclear Medicine, Professor, Department of Radiology and Bio-X Program

Gary E. Gold, MD
Assistant Professor of Radiology

Jeffrey C. Hellinger, MD
Clinical Instructor of Radiology

Robert J. Herfkens, MD
Co-Director, 3D Laboratory

Sandy Napel, PhD
Professor of Radiology, Director MRI and Destination Digital

Ann N. Leung, MD
Associate Professor, Associate Chair of Clinical Affairs, Section Chief of Thoracic Imaging, Department of Radiology

Robert Mindelzun, MD
Professor of Radiology

Laura Logan, BA, RT (R) (CT)
Manager, 3D Laboratory

Eric F. Williamson, MD
Cardiovascular Imaging Fellow
### Program

**Tuesday, June 22, 2004**

**By Appointment:** 
Hands on Workstation Training  
(see website for details)

3:00-5:00 pm  
Pre-Registration and Check-In

### Wednesday, June 23, 2004

**By Appointment:** 
Hands on Workstation Training  
(see website for details)

7:00-7:30 am  
Registration, Continental Breakfast, View Exhibits

7:30-7:40  
Course Welcome  
Gary M. Glazer, MD

7:40-7:45  
Program Introduction  
Geoffrey D. Rubin, MD

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<tr>
<th>Session I: Principles</th>
<th>Moderator: GEOFFREY D. RUBIN, MD</th>
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| 7:45-8:10  
Four or More: Understanding the Basics of Multidetector-Row CT  
Sandy Napel, PhD |
| 8:10-8:30  
The Way to a 256-Row CT Scanner  
Kazuhiro Katada, MD |
| 8:30-8:50  
Detectors with 25 cm z-Extent: When and How  
Willi Kalender, PhD |
| 8:50-9:10  
Practical Guidelines for Selecting Detector Width, Pitch and Rotation Speed  
Geoffrey D. Rubin, MD |
| 9:10-9:30  
Clinical Experience with a 40-Row CT Scanner  
Nathan Peled, MD |
| 9:30-9:50  
Clinical Experience with a 64-Row CT Scanner  
W. Dennis Foley, MD |
| 9:50-10:10  
Coffee Break, View Exhibits |
| 10:10-10:30  
Optimizing Tube Current and Potential: Tales of the Forgotten Parameters  
Sanjay Saini, MD, MBA |
| 10:30-10:50  
Dose Management and Dose Reduction in MDCT  
Cynthia McCollough, PhD |
| 10:50-11:10  
Debate: Radiation Dose from MDCT Scans is an Important Public Health Concern  
Pro: Aart J. van der Molen, MD  
Con: Mathias Prokop, MD |
| 11:10-11:20  
Four or More: Understanding the Basics of Multidetector-Row CT  
Sandy Napel, PhD |
| 11:20-11:30  
The Way to a 256-Row CT Scanner  
Kazuhiro Katada, MD |
| 11:30-11:35  
Detectors with 25 cm z-Extent: When and How  
Willi Kalender, PhD |
| 11:35-11:40  
Novel Pediatric Applications Made Possible by MDCT  
S. Bruce Greenberg, MD |
| 11:40-12:00 pm  
Discussion |
| 12:00-1:00  
Coffee Break, View Exhibits |

### Session II: Pediatrics

**Moderator: PATRICK D. BARNES, MD**

| 1:00-1:20  
Technical Considerations for Performing Pediatric MDCT  
Donald P. Frush, MD |
| 1:20-1:40  
Novel Pediatric Applications Made Possible by MDCT  
S. Bruce Greenberg, MD |
| 1:40-2:00  
MDCT Applications in Pediatric Neuroradiology (Brain, Spine, Head & Neck)  
Patrick D. Barnes, MD |
| 2:00-2:20  
Discussion |

### Session III: Neuro

**Moderator: HUY M. DO, MD**

| 2:20-2:40  
Understanding CT Perfusion  
Kieran J. Murphy, MD, FRCP  
Stroke: MR vs CT for Detection and Triage  
Jay Cinnamon, MD |
| 2:40-3:00  
Coffee Break, View Exhibits |
| 3:00-3:20  
Cerebral Aneurysm Detection and Characterization: Does MDCT make DSA Obsolete?  
Huy M. Do, MD |
| 3:20-3:40  
Coffee Break, View Exhibits |
| 3:40-3:55  
Craniofacial MDCT  
Jay Cinnamon, MD |
| 3:55-4:15  
Discussion |

### Session IV: Emergency

**Moderator: GEOFFREY D. RUBIN, MD**

| 4:15-4:35  
Acute Chest Pain  
Theodore J. Dubinsky, MD |
| 4:35-5:05  
Interactive Session 1: Trauma MDCT: Life Threatening Challenges  
Robert A. Novaline, MD |
| 5:05-5:20  
Discussion |
| 5:30-7:30  
Welcome Reception |

### Thursday, June 24, 2004

**By Appointment:** 
Hands on workstation Training  
(see website for details)

7:00-7:30 am  
Continental Breakfast, View Exhibits

### Session V: Thorax

**Moderator: ANN N. LEUNG, MD**

| 7:30-7:50  
How MDCT has Changed the Way I Perform and Interpret Thoracic CT Scans  
James F. Gruden, MD |
| 7:50-8:10  
Venous Thromboembolism  
U. Joseph Schoepf, MD |
| 8:10-8:30  
Airways  
Phillip M. Boiselle, MD |
| 8:30-8:50  
Lung Nodule Detection with MDCT: Radiologists versus Computer-Assisted Radiologists  
Geoffrey D. Rubin, MD |
| 8:50-9:10  
Interactive Session 2: Characterizing Infections in the Immunocompromised Host  
Ann N. Leung, MD |
| 9:10-9:30  
Discussion |
| 9:30-9:50  
Coffee Break, View Exhibits |

### Session VI: CT Screening

**Moderator: GEOFFREY D. RUBIN, MD**

| 9:50-10:10  
CT Screening: Scan or Scam  
Fergus V. Coakley, MD |
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<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>10:10-10:30</td>
<td>Lung Cancer Screening: The Devil in the Details</td>
<td>Richard Webb, MD</td>
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<tr>
<td>10:30-10:50</td>
<td>CT Screening for Lung Cancer: What Have We Learned over the Past 5 Years and What We Should Know in Another 5 Years</td>
<td>David Yankelevitz, MD</td>
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<td>10:50-11:10</td>
<td>Discussion</td>
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<td>11:10-12:30</td>
<td>Lunch Break (on Own)</td>
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**Session VII: Work Flow/Image Processing**  
**Moderator:** GEOFFREY D. RUBIN, MD

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<th>Time</th>
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<tr>
<td>12:30-12:50</td>
<td>Dealing with Voluminous MDCT Data Sets: What Will it Take?</td>
<td>Sandy Napel, PhD</td>
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<td>12:50-1:10</td>
<td>More Scans, Not More Scanners</td>
<td>Sanjay Saini, MD, MBA</td>
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<tr>
<td>1:10-1:30</td>
<td>Efficient 3-D Workstation Design: The Radiologist's Perspective</td>
<td>Elliot K. Fishman MD, FACR</td>
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<tr>
<td>1:30-1:50</td>
<td>Efficient 3-D Workstation Design: The Technologist's Perspective</td>
<td>Laura Logan, BA, RT (R)(CT)</td>
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<td>1:50-2:10</td>
<td>Coffee Break, View Exhibits</td>
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<tr>
<td>2:10-2:30</td>
<td>Coffee Break, View Exhibits</td>
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<tr>
<td>2:30-5:30</td>
<td>2nd Annual Workstation Face-Off—View and Compare How Each Major Workstation Can Be Used for Visualization of 3D Data Sets</td>
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**Friday, June 25, 2004**

By Appointment: Hands on Workstation Training  
(see website for details)

7:00-7:30 am  
Continental Breakfast, View Exhibits

**Session VIII: Musculoskeletal**  
**Moderator:** GARRY E. GOLD, MD

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<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tr>
<td>7:30-8:00</td>
<td>Orthopedic MDCT</td>
<td>Garry E. Gold, MD</td>
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<tr>
<td>8:00-8:20</td>
<td>Thoracic and Lumbosacral Spine, MDCT vs MR</td>
<td>George Y. El-Khoury, MD</td>
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<td>8:20-8:40</td>
<td>Cervical Spine CT: Are Plain Films Obsolete?</td>
<td>Jay Cinnamon, MD</td>
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<td>8:40-9:00</td>
<td>Discussion</td>
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**Session IX: PET/CT**  
**Moderator:** ROBERT J. HERFEKENS, MD

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<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>9:00-9:20</td>
<td>Considerations for Establishing a PET/CT Program</td>
<td>George M. Ebert, MD, PhD</td>
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<td>9:20-9:40</td>
<td>Clinical Contribution and Pitfalls of PET/CT</td>
<td>Robert J. Herfkens, MD</td>
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<tr>
<td>9:40-10:10</td>
<td>PET/CT: 3, 5, and 10 Year Predictions</td>
<td>Sanjiv Sam Gambhir, MD</td>
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<td>10:10-10:30</td>
<td>Discussion</td>
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<td>10:30-10:50</td>
<td>Coffee Break, View Exhibits</td>
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**Session X: Abdomen**  
**Moderator:** LAWRENCE CHOW, MD

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<tr>
<td>10:50-11:10</td>
<td>MDCT of the Abdomen: Challenges and Misconceptions</td>
<td>Michael Macari, MD</td>
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<td>11:10-11:30</td>
<td>CT Urography: How and Why</td>
<td>Lawrence Chow, MD</td>
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<tr>
<td>11:30-11:45</td>
<td>Discussion</td>
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<tr>
<td>11:45-1:15 pm</td>
<td>Lunch Break (on Own)</td>
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<td>1:15-1:35</td>
<td>The Impact of MDCT in the UK</td>
<td>Adrian K. Dixon, MD</td>
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<tr>
<td>1:35-1:55</td>
<td>Hepatocellular Carcinoma: Technique and Interpretation Challenges</td>
<td>Rendon C. Nelson, MD</td>
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<tr>
<td>1:55-2:15</td>
<td>Hepatic Metastases: Technique and Interpretation Challenges</td>
<td>Patrik Rogalla, MD</td>
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<td>2:15-2:45</td>
<td>Interactive Session 3: The Juandediced Patient</td>
<td>Robert Mindelzun, MD</td>
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<td>2:45-3:00</td>
<td>Coffee Break, View Exhibits</td>
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<tr>
<td>3:00-3:20</td>
<td>Staging Rectal Carcinoma with MDCT</td>
<td>Terry S. Desser, MD</td>
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<td>3:20-3:40</td>
<td>Making CT Colonography Routine: Rationale and Practical Considerations</td>
<td>Michael Macari, MD</td>
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<td>3:40-4:00</td>
<td>Challenges in the Interpretation of CT Colonography</td>
<td>Christopher F. Beaulieu, MD, PhD</td>
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<td>4:00-4:20</td>
<td>Discussion</td>
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**Saturday, June 26, 2004**

By Appointment: Hands on Workstation Training  
(see website for details)

7:00-7:30 am  
Continental Breakfast, View Exhibits

**Session XI: Cardiovascular I**  
**Moderator:** GEOFFREY D. RUBIN, MD

<table>
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<tr>
<td>7:30-7:50</td>
<td>Cardiac CT: Tips and Techniques for Getting the Most from Your MDCT Scanner</td>
<td>Axel Kuettnert, MD</td>
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<tr>
<td>7:50-8:10</td>
<td>Measuring Coronary Calcium Techniques and Rationale</td>
<td>Jerry Breen, MD</td>
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<tr>
<td>8:10-8:30</td>
<td>What’s New in CAC Scoring with MDCT</td>
<td>Christoph R. Becker, MD</td>
</tr>
<tr>
<td>8:30-8:50</td>
<td>Why I Order Coronary Calcium Scans on my Patients and What I do with the Information</td>
<td>Stephen P. Fortmann, MD</td>
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<td>8:50-9:10</td>
<td>Coffee Break and Exhibits</td>
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<tr>
<td>9:10-9:30</td>
<td>CTA of Coronary Arteries and Bypass Grafts: Is it Ready for Clinical Practice</td>
<td>Koen Nieman, MD</td>
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<tr>
<td>9:30-9:50</td>
<td>Nonatherosclerotic CAD</td>
<td>Christoph R. Becker, MD</td>
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<tr>
<td>10:10-10:30</td>
<td>MDCT Before Catheter Ablation for Atrial Fibrillation</td>
<td>Joan M. Lacomis, MD</td>
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<tr>
<td>10:30-10:50</td>
<td>MDCT and the Preoperative Evaluation of the Cardiac Surgery Patient</td>
<td>R. C. Gilkeson, MD</td>
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<td>10:50-11:10</td>
<td>Clinical Decision Making with CT: A Cardiologist’s Perspective</td>
<td>Joao A. C. Lima, MD, MBA</td>
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<td>11:10-11:30</td>
<td>Discussion</td>
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<tr>
<td>11:30-12:50 pm</td>
<td>Lunch Break (on Own)</td>
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**Session XII: Cardiovascular II**  
**Moderator:** DOMINIK FLEISCHMANN, MD

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<th>Time</th>
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<td>12:50-1:10</td>
<td>The Pediatric Heart</td>
<td>Frandics Chan, MD</td>
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<tr>
<td>1:10-1:30</td>
<td>Optimizing Contrast Medium Delivery for CT Angiography</td>
<td>Dominik Fleischmann, MD</td>
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<tr>
<td>1:30-1:50</td>
<td>Carotid CTA</td>
<td>W. Dennis Foley, MD</td>
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<tr>
<td>1:50-2:10</td>
<td>Atherosclerotic Plaque Characterization: What can CT Contribute?</td>
<td>Konstantin Nikolau, MD</td>
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<tr>
<td>2:10-2:30</td>
<td>Does MDCT make Interventions Easier?</td>
<td>Bart L. Dolmatch, MD</td>
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<td>2:30-2:50</td>
<td>Coffee Break and Exhibits</td>
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<td>2:50-3:05</td>
<td>Why Scan an Arm?</td>
<td>Jeffrey C. Hellinger, MD</td>
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<td>3:05-3:25</td>
<td>Peripheral CTA</td>
<td>Dominik Fleischmann, MD</td>
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<td>3:25-3:40</td>
<td>CTA of Extremity Trauma</td>
<td>Eric E. Williamson, MD</td>
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<td>3:40-4:10</td>
<td>CT Angiograpy</td>
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<td>4:10-4:30</td>
<td>Discussion</td>
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</table>

All lectures will be held in the Ballroom at the Ritz-Carlton San Francisco.

Pre-registration and check-in is available from 3:00-5:00 pm on Tuesday, June 22, 2004.

Registration and check-in continue on Wednesday, June 23, 2003 at 7:00 am.
**Course Registration Form**

*Stanford University School of Medicine*

6th Annual International Symposium on Multidetector-Row CT

**June 23-26, 2003**

**The Ritz-Carlton**
San Francisco, California

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