

# 2 GREAT COURSES

# PRACTICAL APPLICATIONS OF:

## Advanced Molecular Imaging and Digital PET/CT

## Spectral CT

### Hands on Workstations

**January 17 – 18, 2020**

The Westin Dallas Downtown  
Dallas, Texas

12.0 AMA PRA  
Category 1 Credit(s)<sup>TM</sup>

# Practical Applications of Advanced Molecular Imaging and Digital PET/CT

## ABOUT THE MEETING

This course is designed to deliver a practical, clinically insight into Advanced Molecular Imaging with emphasis on technologies and techniques enabled by the latest technological advances including digital PET/CT. Tips, techniques, and diagnostic applications of Advanced Molecular and digital PET/CT Imaging will be highlighted throughout the program. Expert faculty share insight into the future potential of Advanced Molecular and digital PET/CT Imaging along with the impact on patient care. Hands on sessions are designed to allow attendees the ability to appreciate the capabilities, opportunities and changes in image quality and image perception of the recent advances and will help guide the technical and clinical understating on how it can be used and integrated into clinical care.

## TARGET AUDIENCE

This CME activity is designed to educate diagnostic and molecular imaging physicians who perform, supervise and interpret Advanced Molecular Imaging data as well as technologists who will be exposed to the capabilities and recommended approaches to leverage the technology advances.

## SCIENTIFIC SPONSOR

Educational Symposia

## ACCREDITATION

**Physicians:** Educational Symposia is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Educational Symposia designates this live activity for a maximum of 12.0 *AMA PRA Category 1 Credit(s)<sup>TM</sup>*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Technologists:** This program has been submitted to the ASRT. The number of A CE credits will be available approximately 30 days prior to the meeting. Please visit [www.edusymp.com](http://www.edusymp.com) or call (813) 806-1000 regarding the availability of Category A CE credit.

## EDUCATIONAL OBJECTIVES

Attendees should, at the completion of this course, be able to:

- Discuss the principles of Advanced Molecular and digital PET/CT Imaging.
- Describe the expanding role of Advanced Molecular Imaging applications.
- Discuss the impact of Advanced Molecular Imaging and digital PET/CT on clinical practice.
- Explain how Advanced Molecular Imaging and digital PET/CT can impact patient care.

*No special educational preparation is required for this CME activity.*

# Practical Applications of Spectral CT

## ABOUT THE MEETING

This course is designed to deliver a practical, clinically relevant review of CT imaging while emphasizing the latest technological advances in Spectral CT. Tips, techniques, and increased diagnostic performance of Spectral CT will be highlighted throughout the program. Expert faculty share insight into the future potential of spectral CT along with the impact on patient care. Hands on sessions are designed to allow attendees the ability to appreciate the functionality and diversity of Spectral CT applications.

## TARGET AUDIENCE

This CME activity is designed to educate diagnostic imaging physicians who supervise and interpret CT studies. CT technologists should also benefit from this course.

## SCIENTIFIC SPONSOR

Educational Symposia

## ACCREDITATION

**Physicians:** Educational Symposia is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Educational Symposia designates this live activity for a maximum of 12.0 *AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Technologists:** This program has been submitted to the ASRT. The number of A CE credits will be available approximately 30 days prior to the meeting. Please visit [www.edusymp.com](http://www.edusymp.com) or call (813) 806-1000 regarding the availability of Category A CE credit.

## EDUCATIONAL OBJECTIVES

Attendees should, at the completion of this course, be able to:

- Discuss the principles of Spectral CT.
- Describe the expanding role of Spectral CT in abdominal, emergency, neuro, chest, cardiac and oncology imaging.
- Discuss the impact of Spectral CT on clinical practice.
- Explain how Spectral CT can impact patient care.
- Apply Spectral CT imaging protocols to clinical practice.

*No special educational preparation is required for this CME activity.*



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## COURSE ORGANIZATION

This program is planned and organized by Educational Symposia, a leader in continuing medical education since 1975.

## ACKNOWLEDGEMENT

Educational Symposia gratefully acknowledges the following corporate supporter:

Philips Healthcare

## CANCELLATIONS

Cancellations must be received in writing by sending an e-mail to [cancel@edusymp.com](mailto:cancel@edusymp.com). There is a \$50 processing fee applied to all cancellations. Cancellations made in writing prior to December 20, 2019 will be issued a refund for the amount of tuition paid less the \$50 processing fee. No refunds will be made on or after December 20, 2019.

## REGISTRATION INFORMATION

**Tuition for live conference** includes all course materials, an electronic color course syllabus, daily continental breakfasts, lunch and reception. Early registration is strongly suggested. There will be a \$50 surcharge for anyone registering after **January 8, 2020**. Minimum and maximum attendance levels have been established for this meeting. If your registration cannot be accepted, you will be issued a full tuition refund.

## 4 EASY WAYS TO REGISTER

We Accept



**INTERNET**  
[www.edusymp.com](http://www.edusymp.com)

**MAIL** Check payable to:  
Educational Symposia  
5620 West Sligh Avenue  
Tampa, Florida 33634-4490

**FAX**  
(813) 806-1001

**PHONE**  
(813) 806-1000

Reduce your mail clutter or just add email announcements. Please visit the "Mailing List" section of our website at [www.edusymp.com](http://www.edusymp.com).

**Disclaimer:** Educational Symposia (ESI) as planner and presenter of this meeting, and Professional Travel as the official travel agency for this meeting, claim no liability for the acts of any suppliers or the safety of any attendees while in transit to, from, or during this event or any optional activities. The total amount of liability, if any, for the meeting organizers is limited to a refund of the registration fee, and Professional Travel's responsibility is limited to that of an agent.



**Special Note for the Disabled:** Educational Symposia wishes to ensure that no individual with a disability is excluded, denied services, segregated or otherwise treated differently from other individuals because of the absence of auxiliary aids and services. If you need any auxiliary aids or services identified in the Americans with Disabilities Act, please contact our office at (813) 806-1000.

## Practical Applications of Advanced Molecular Imaging and Digital PET/CT

**Program Director:** Michael V. Knopp, M.D., Ph.D.

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**Katherine Binzel, Ph.D.**

*Research Scientist  
Wright Center of Innovation  
Department of Radiology  
Columbus, OH*

**Jay Janusz Kikut, M.D.**

*Vice Chair of Radiology  
Medical Director and Division Chief of Nuclear Medicine  
& PET/CT  
Professor of Radiology & Nuclear Molecular Imaging  
Larner College of Medicine at the University of Vermont  
The University of Vermont Medical Center  
Burlington, VT*

**Michael V. Knopp, M.D., Ph.D.**

*Professor of Radiology and Novartis Chair of  
Imaging Research  
The Ohio State University  
Columbus, OH*

**Todd Peterson, Ph.D.**

*Director of Nuclear Imaging  
Associate Professor of Radiology & Radiological Sciences,  
Physics & Astronomy, Chemical & Physical Biology  
Vanderbilt University Institute of Imaging and Science  
Nashville, TN*

**Bital Savir-Baruch, M.D.**

*Nuclear Medicine Physician  
Loyola University Medical Center  
Maywood, IL*

**Chadwick L. Wright, M.D. Ph.D.**

*Assistant Professor  
Division of Molecular Imaging and Nuclear Medicine  
Department of Radiology  
The Ohio State University Wexner Medical Center  
Columbus, OH*

# Practical Applications of Spectral CT

**Program Director:** Neil M. Rofsky, M.D., FACR

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**Lakshmi Ananthakrishnan, M.D.**

*Director of Computed Tomography  
Assistant Professor, Abdominal Imaging Division  
Department of Radiology  
UT Southwestern Medical Center  
Dallas, TX*

**Raman Danrad, M.D.**

*Associate Professor of Clinical Radiology  
Academic Director of Cardiac Imaging  
Co-Director of Musculoskeletal Research  
Clinical Director of MRI  
LSU Health New Orleans School of Medicine  
New Orleans, LA*

**Amit Gupta, M.D., MRMD**

*Assistant Professor, Case Western Reserve University  
Department of Radiology, Cardiothoracic division,  
Modality Director Diagnostic Radiography  
University Hospital Cleveland Medical Center  
Cleveland, OH*

**John Leyendecker, M.D.**

*Vice Chair of Academic Affairs  
Professor of Radiology  
University of Texas Southwestern Medical Center  
Dallas, TX*

**Peter B. Noël, Ph.D.**

*Assistant Professor of Radiology  
Director of CT Research  
Department of Radiology  
Perelman School of Medicine at the University of  
Pennsylvania  
Philadelphia, PA*

**Ronald Peshock, M.D.**

*Assistant Dean for Informatics  
Professor of Radiology and Internal Medicine  
University of Texas Southwestern Medical Center  
Dallas, TX*

**Gopal Punjabi, M.D.**

*Chief of Radiology  
Hennepin Healthcare  
Minneapolis, MN*

**Neil M. Rofsky, M.D., FACR**

*Professor and Chairman  
Effie and Wofford Cain Distinguished Chair in  
Diagnostic Imaging  
Department of Radiology  
UT Southwestern Medical Center  
Dallas, TX*

**Dushyant V. Sahani, M.D.**

*Director of Computed Tomography/Assistant Radiologist  
Massachusetts General Hospital  
Associate Professor of Radiology  
Harvard Medical School  
Boston, MA*

**Osamu Sakai, M.D., Ph.D., FACR**

*Professor of Radiology, Otolaryngology - Head and  
Neck Surgery, and Radiation Oncology  
Chief of Neuroradiology  
Boston Medical Center, Boston University School of  
Medicine  
Boston, MA*

**Todd C. Soesbe, Ph.D.**

*Assistant Professor  
Department of Radiology  
University of Texas Southwestern Medical Center  
Dallas, TX*

**Richard N. Southard, M.D.**

*Vice Chairman of Operations  
Director of CT and Cardiac Imaging  
Co-Director of The 3D Innovation Lab  
Associate Professor of Radiology and Child Health  
University of Arizona College of Medicine-Phoenix  
Associate Professor of Radiology Creighton University  
Medical School-Phoenix  
Assistant Professor of Radiology Mayo Clinic  
Phoenix, AZ*

**Aran Toshav, M.D.**

*Associate Professor of Clinical Radiology  
Associate Professor of Clinical Medicine (Joint Appointment)  
Program Director, Diagnostic Radiology  
Academic Director of Abdominal Imaging  
LSU Health New Orleans  
New Orleans, LA*

PROGRAM

Friday, January 17, 2020

7:00 – 8:00 AM Registration and Breakfast	
Combined Session CT & AMI	
8:00 – 8:10	Welcome and Introduction <i>Neil M. Rofsky, M.D., FACP</i>
8:10 – 8:40	Basics of Spectral CT and Protocol Building <i>Lakshmi Ananthakrishnan, M.D.</i>
8:40 – 9:10	Quantitative Imaging <i>Michael V. Knopp, M.D., Ph.D.</i>
9:10 – 9:40	Oral and IV Contrast Media Optimization with Spectra CT <i>Dushyant V. Sahani, M.D.</i>
9:40 – 10:00	Data Management and Storage <i>Ronald Peshock, M.D.</i>
10:00 – 10:15 Coffee Break	
Spectral CT Session	
10:15 – 10:45	Spectrum of Spectral CT <i>Todd C. Soesbe, Ph.D.</i>
10:45 – 11:15	Spectral CT in Abdominal Imaging <i>Lakshmi Ananthakrishnan, M.D.</i>
11:15 – 11:45	Benefits of Spectral CT in Pediatrics: Clinical Applications <i>Richard N. Southard, M.D.</i>
11:45 – 12:15 PM	AI to the Rescue / Workflow <i>Ronald Peshock, M.D.</i>
AMI Session	
10:15 – 10:45	Advances in Clinical Molecular Imaging and Digital PET/CT - The Physician Perspective <i>Michael V. Knopp, M.D., Ph.D.</i>
10:45 – 11:15	Advances in Clinical Molecular Imaging and Digital PET/CT - The Physicist Perspective <i>Todd Peterson, Ph.D.</i>
11:15 – 11:45	Molecular Imaging in Head and Neck Oncology <i>Chadwick L. Wright, M.D., Ph.D.</i>
11:45 – 12:15 PM	Molecular Imaging in Prostate Oncology <i>Bital Savir-Baruch, M.D.</i>
12:15 – 1:30 Lunch Provided	

Friday, January 17, 2020 (Continued)

Hands on Workstation CT 1: Breakout A	
1:30 – 3:45	Read with the Experts  <b>Group 1:</b> Abdominal Imaging <i>Lakshmi Ananthakrishnan, M.D.</i>  <b>Group 2:</b> Emergency Department Imaging <i>Gopal Punjabi, M.D.</i>  <b>Group 3:</b> Oncology Imaging <i>Aran Toshav, M.D.</i>
Hands on Workstation CT 1: Breakout B	
1:30 – 3:45	Read with the Experts  <b>Group 4:</b> Neuroradiology <i>Osamu Sakai, M.D., Ph.D., FACP</i>  <b>Group 5:</b> Chest Imaging <i>Amit Gupta, M.D., MRMD</i>  <b>Group 6:</b> Cardiac Imaging <i>Raman Danrad, M.D.</i>
Hands on Workstation AMI	
1:30 – 3:45	Read with the Experts  <b>Group 1:</b> Whole Body FDG PET/CT in Oncology <i>Michael V. Knopp, M.D., Ph.D.</i>  <b>Group 2:</b> PET/CT in Prostate Oncology <i>Bital Savir-Baruch M.D.</i>  <b>Group 3:</b> NaF Whole Body PET/CT <i>Chadwick L. Wright M.D., Ph.D.</i>
3:45 – 4:00 Coffee Break	
Spectral CT Session	
4:00 – 4:30	Spectral CT in Thoracic Emergencies <i>Gopal Punjabi, M.D.</i>
4:30 – 5:00	Spectral CT in Coronary CTA <i>Raman Danrad, M.D.</i>
5:00 – 5:30	Spectral CT in Head and Neck Emergencies and Oncology <i>Osamu Sakai, M.D., Ph.D., FACP</i>



Friday, January 17, 2020 (Continued)

AMI Session	
4:00 – 4:20	Digital PET/CT in Cardiac Imaging <i>Janusz K. Kikut, M.D.</i>
4:20 – 4:40	Advanced Molecular Imaging in Sports Medicine <i>Katherine Binzel, Ph.D.</i>
4:40 – 5:00	Digital PET/CT in Neuro Oncology <i>Janusz K. Kikut, M.D.</i>
5:00 – 5:30	Advanced Molecular Imaging in GU Oncology - An Interactive Session <i>Bital Savir-Baruch M.D.</i> <i>Chadwick L. Wright, M.D., Ph.D.</i> <i>Michael V. Knopp, M.D., Ph.D.</i>
5:30	End of Session
5:30 – 7:00	Cocktail Reception

Saturday, January 18, 2020

7:00 – 8:00 AM	Registration and Breakfast
Hands on Workstation CT 2: Breakout A	
8:00 – 10:15	Read with the Experts  <b>Group 1:</b> Abdominal Imaging <i>Lakshmi Ananthakrishnan, M.D.</i>  <b>Group 2:</b> Emergency Department Imaging <i>Gopal Punjabi, M.D.</i>  <b>Group 3:</b> Oncology Imaging <i>Aran Toshav, M.D.</i>
Hands on Workstation CT 2: Breakout B	
8:00 – 10:15	Read with the Experts  <b>Group 4:</b> Neuroradiology <i>Osamu Sakai, M.D., Ph.D.</i>  <b>Group 5:</b> Chest Imaging <i>Amit Gupta, M.D., MRMD</i>  <b>Group 6:</b> Cardiac Imaging <i>Raman Danrad, M.D.</i>

Saturday, January 18, 2020 (Continued)

Hands on Workstation AMI	
8:00 – 10:15	Read with the Experts  <b>Group 1:</b> Digital PET/CT Imaging - Recalibrating What We See <i>Katherine Binzel, Ph.D.</i> <i>Todd Peterson, Ph.D.</i>  <b>Group 2:</b> Digital PET/CT Imaging - How to Transition in Clinical Practice <i>Michael V. Knopp M.D., Ph.D.</i> <i>Chadwick L. Wright M.D., Ph.D.</i>  <b>Group 3:</b> Case Review of Non FDG PET/CT in Pelvic Oncology <i>Bital Savir-Baruch M.D.</i>
10:15 – 10:30	Coffee Break
Combined Session CT & AMI	
10:30 – 10:50	Radiology in a Value Based World <i>Neil M. Rofsky, M.D., FACR</i>
10:50 – 11:10	Making a Business Case in Support of Spectral CT <i>Dushyant V. Sahani, M.D.</i>
11:10 – 11:30	Economics and Spectral CT in the Obese <i>Aran Toshav, M.D.</i>
11:30 – 11:50	Pathways from Dual-Energy to Spectral Photon-Counting CT <i>Peter Noël, M.S. Ph.D.</i>
11:50 – 12:15 PM	Burnout in Radiology <i>John Leyendecker, M.D.</i>
12:15 – 12:30	Question and Answer/ Closing Remarks <i>Neil M. Rofsky, M.D., FACR</i>
12:30	End of Program

Workstations provided by Philips Healthcare



# The Westin Dallas Downtown

## SPACE IS LIMITED - RESERVE TODAY:

Visit [edusymp.com](http://edusymp.com) and search **SCTD20** or **AMI20** to visit the accommodations page for additional hotel information.

Call Reservations at: (855) 811-0229 and identify that you are with "Spectral CT" to receive the group discount.



**Group Room Rates** ..... **\$179/nt.**  
(single/double occupancy)

Cost for additional person over double occupancy is \$20. Children under 18 stay free when sharing a room with an adult.

**HOTEL CUT-OFF DATE:** December 18, 2019  
(group rates 3 days prior/post – space available basis).

**HOTEL TAX:** 16.067%

**PARKING:** Discounted parking of \$20, valet only.

**DEPOSIT POLICY:** All Reservations must be accompanied by a first night room deposit or guaranteed with a major credit card.

**CANCELLATION POLICY:** Individual room reservations made may be cancelled 72 hours prior to arrival. Cancellations made after 72 hours to arrival or no shows will be charged an equivalent to a one-night room and tax charge. Check in time is: 3:00 PM; check out time is: 12:00 PM.

**HOTEL:** 1220 Elm Street  
Dallas, TX 75202

**PHONE:** (972) 584-6650

### Meeting Registration Form:

**Practical Applications of:  
Advanced Molecular Imaging and Digital PET/CT • Spectral CT**  
January 17 – 18, 2020 • The Westin Dallas Downtown • Dallas, Texas

**SCTD20  
AMI20**

**REGISTER ONLINE: [WWW.EDUSYMP.COM](http://WWW.EDUSYMP.COM)**

Check Meeting Registration below: **INCLUDES ELECTRONIC COLOR SYLLABUS ONLY**

Attendance is limited; therefore,  
early registration is strongly suggested.

- ☐ Physicians  
☐ Scientists  
☐ Company Personnel

- ☐ Full Time Military\*  
☐ VA Physicians\*  
☐ P.A./R.A.  
☐ Retired Physicians

- ☐ Technologists  
☐ Sonographers  
☐ Fellows / Residents\*

AMI TUITION		SPECTRAL CT TUITION	
On or Before 1/8/20	After 1/8/20	On or Before 1/8/20	After 1/8/20
<input type="checkbox"/> <b>\$295</b>	<input type="checkbox"/> <b>\$345</b>	<input type="checkbox"/> <b>\$295</b>	<input type="checkbox"/> <b>\$345</b>
<input type="checkbox"/> <b>\$195</b>	<input type="checkbox"/> <b>\$245</b>	<input type="checkbox"/> <b>\$195</b>	<input type="checkbox"/> <b>\$245</b>

**1<sup>st</sup> 10 Active Duty Military Personnel\* ATTEND FOR FREE**

*\*MUST ENCLOSE OR FAX LETTER FROM YOUR DIRECTOR CERTIFYING STATUS.*

Name	<input type="checkbox"/> M.D. <input type="checkbox"/> D.O. <input type="checkbox"/> Ph.D. <input type="checkbox"/> R.T. <input type="checkbox"/> P.A./R.A. <input type="checkbox"/> RDMS <input type="checkbox"/> Other	
Company / Hospital	Specialty	
Group Practice Name		
Address	City / State / Zip / Country	
Phone	Email (REQUIRED FOR ELECTRONIC SYLLABUS)	
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