# 2017 Classic Lectures in

# **PET and PET/CT**



# **Designated for SA-CME**

This enduring material activity counts towards the SA-CME requirement for the ABR, similar to a SAM activity

# Release Date: October 1, 2017

#### **About This CME Teaching Activity**

This CME activity brings together some of our most popular lectures in PET and PET/CT imaging. Basic to advanced applications of PET and PET/CT are put in the context of disease detection and treatment planning. Faculty share techniques, tips and pitfalls through case based presentations.

#### **Target Audience**

This CME activity should benefit radiologists, oncologists, and nuclear medicine physicians. The course should also prove valuable for physicians who order these studies.

#### **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 enduring material for a maximum of 16.5 *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.

All activity participants are required to pass a written or online test with a minimum score of 70% in order to be awarded credit. (Exam materials, if ordered, will be sent with your order.) All course participants will also have the opportunity to critically evaluate the program as it relates to practice relevance and educational objectives.

AMA PRA Category 1 Credit(s)™ for this activity may be claimed until September 30, 2020

This CME activity was planned and produced by Educational Symposia, a leader in continuing medical education since 1975.

This activity was planned and produced in accordance with the ACCME Essential Areas and Elements.

#### **Educational Objectives**

At the completion of this CME teaching activity, you should be able to:

- Implement newer protocols for evaluating cancer into practice.
- Optimize PET and PET/CT imaging protocols for the detection and follow up of cancers.
- Describe the advantages and pitfalls of PET and PET/CT.
- Differentiate normal variants and urgent findings on PET/CT.
- Discuss the clinical indications of PET/MRI.

No special educational preparation is required for this CME activity.

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### **Faculty**

#### Kevin L. Berger, M.D.

Director of PET/CT Chesapeake Medical Imaging Annapolis, MD

#### Todd M. Blodgett, M.D.

President, FRG Molecular Imaging Foundation Radiology Group Pittsburgh, PA

#### Kevin J. Donohoe, M.D.

Staff Radiologist, Nuclear Medicine Beth Israel Deaconess Medical Center Assistant Professor of Radiology Harvard Medical School Boston, MA

#### Steven W. Falen, M.D., Ph.D.

Medical Director Northern California PET Imaging Center Sacramento, CA

#### Peter F. Faulhaber, M.D.

Professor of Radiology Case Western Reserve University Director, Clinical PET University Hospitals Case Medical Center Cleveland, OH

#### Kent P. Friedman, M.D.

Assistant Professor of Radiology Director of Nuclear Medicine Department of Radiology NYU School of Medicine

#### Homer A. Macapinlac, M.D.

James E. Anderson Distinguished Professor of Nuclear Medicine Chairman, Department of Nuclear Medicine University of Texas - M.D. Anderson Cancer Center Houston, TX

#### James K. O'Donnell, M.D.

Professor of Radiology Case Western Reserve University Director, Division of Nuclear Medicine University Hospitals Case Medical Center Cleveland, OH

#### David M. Schuster, M.D.

Associate Professor
Director, Division of Nuclear Medicine and Molecular Imaging
Department of Radiology and Imaging Sciences
Emory University School of Medicine
Atlanta, GA

#### Arif Sheikh, M.D.

Associate Professor of Radiology Interim Director, Nuclear Medicine Section Columbia University Medical Center New York Presbyterian Hospital New York, NY

#### Paul Shreve, M.D.

Advanced Radiology Services, P.C.
Michigan State University College of Human Medicine
Medical Director of PET-CT
Lemmen-Holton Cancer Pavilion
Spectrum Health
Grand Rapids, MI

#### Louise E. Thomson, MBChB, FRACP

Associate Professor of Medicine
David Geffen School of Medicine, UCLA
Director, Cardiovascular Imaging Fellowship Program
Heart Institute
Cedars Sinai Medical Center
Los Angeles, CA

#### Andrew T. Trout, M.D.

Assistant Professor of Radiology and Pediatrics Cincinnati Children's Hospital Medical Center Cincinnati, OH

#### Terence Z. Wong, M.D., Ph.D.

Professor of Radiology Chief, Division of Nuclear Medicine Director of Molecular and Translational Imaging University of North Carolina Chapel Hill Chapel Hill, NC

#### Don C. Yoo, M.D.

Associate Professor of Diagnostic Imaging (Clinical) The Warren Alpert Medical School Director of Nuclear Medicine The Miriam Hospital Providence, RI

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### **Program**

#### Session 1

Cardiac PET Imaging *Kevin L. Berger, M.D.* 

Sarcoidosis - F18 FDG PET Louise E. Thomson, MBChB, FRACP

Appropriate Use Criteria *Kevin J. Donohoe, M.D.* 

Myocardial Viability Assessment with PET *James K. O'Donnell, M.D.* 

#### Session 2

Neuroendocrine Imaging *Arif Sheikh*, *M.D.* 

Head and Neck PET/CT Terence Z. Wong, M.D., Ph.D.

PET Imaging of Dementia *Kevin L. Berger, M.D.* 

#### Session 3

Fundamentals of FDG PET/CT in Lung Cancer *Homer A. Macapinlac, M.D.* 

Tumor Imaging *Andrew T. Trout, M.D.* 

Lung Cancer - How to Interpret PET/CT After Radiation and Thermal Ablation *Don C. Yoo, M.D.* 

PET and PET/CT in Lung Cancer and SPN *Todd M. Blodgett, M.D.* 

#### Session 4

PET/CT of Lymphoma *Kevin L. Berger, M.D.* 

The False Positive Problem with FDG PET: Improving Specificity with PET/CT *Paul Shreve, M.D.* 

Challenging Chest PET/CT Cases Don C. Yoo, M.D.

Improving Efficacy in PET/CT Practice *Paul Shreve, M.D.* 

#### Session 5

Challenging Abdomen and Pelvis PET/CT Cases Don C. Yoo, M.D.

Fluoride PET/CT Bone Imaging *Kevin L. Berger, M.D.* 

PET and PET/CT in Colorectal Cancer *Todd M. Blodgett, M.D.* 

#### Session 6

Infection and Inflammation Imaging *Don C. Yoo, M.D.* 

Clinical Molecular Imaging: Beyond FDG and PET/CT *Arif Sheikh, M.D.* 

Clinical Utility of PET Scanning in Breast Cancer Management David M. Schuster, M.D.

#### Session 7

PET for Gynecologic Oncology *James K. O'Donnell, M.D.* 

Positron Emission Mammography *Steven W. Falen, M.D., Ph.D.* 

PET/CT Head to Toe: Normal Variants and Urgent Findings - Part 1 David M. Schuster, M.D.

PET/CT and PET/MRI Challenges in Breast Cancer Peter F. Faulhaber, M.D.

#### Session 8

Difficult Cases

Todd M. Blodgett, M.D.

PET/CT Head to Toe: Normal Variants and Urgent Findings - Part 2 David M. Schuster, M.D.

Clinical PET/MR in Oncology *Kent P. Friedman, M.D.* 

# 2017 Classic Lectures in

# Clinical Nuclear Medicine



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## Release Date: October 1, 2017

#### **About This CME Teaching Activity**

This CME activity brings together some of our most popular lectures in Clinical Nuclear Medicine. It combines a practical yet comprehensive review of nuclear medicine imaging with a concentration on the latest trends, protocols and advances in clinical diagnosis and patient management. Faculty share techniques, tips and pitfalls through case based presentations.

#### **Target Audience**

This CME activity should benefit nuclear medicine physicians and radiologists. It should also benefit physicians who order, supervise and/or interpret nuclear medicine procedures.

#### **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.

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#### **Educational Objectives**

At the completion of this CME teaching activity, you should be able to:

- Apply state-of-the-art protocols to assess a variety of disorders to clinical practice.
- Discuss current and future directions of nuclear medicine studies.
- Describe the role of nuclear medicine imaging when used to identify and treat cancers.
- Explain the expanding role of nuclear medicine studies in the detection and management of pulmonary, breast, abdominal and brain disorders.

No special educational preparation is required for this CME activity.

# 2017 Classic Lectures in

# Clinical Nuclear Medicine

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# **Faculty**

#### Pradeep G. Bhambhvani, M.D.

Associate Professor, Tenure - Earning
Department of Radiology
Division of Molecular Imaging and Therapeutics
University of Alabama at Birmingham School of Medicine
Birmingham, AL

#### Kevin J. Donohoe, M.D.

Staff Radiologist, Nuclear Medicine Beth Israel Deaconess Medical Center Assistant Professor of Radiology Harvard Medical School Roston, MA

#### Sebastian Obrzut, M.D.

Associate Professor Department of Radiology University of California, San Diego San Diego, CA

#### James K. O'Donnell, M.D.

Professor of Radiology Case Western Reserve University Director, Division of Nuclear Medicine University Hospitals Case Medical Center Cleveland, OH

#### David M. Schuster, M.D.

Associate Professor
Director, Division of Nuclear Medicine and Molecular Imaging
Department of Radiology and Imaging Sciences
Emory University School of Medicine
Atlanta, GA

#### Arif Sheikh, M.D.

Associate Professor of Radiology Interim Director, Nuclear Medicine Section Columbia University Medical Center New York Presbyterian Hospital New York, NY

#### Paul Shreve, M.D.

Advanced Radiology Services, P.C.
Michigan State University College of Human Medicine
Medical Director of PET-CT
Lemmen-Holton Cancer Pavilion
Spectrum Health
Grand Rapids, MI

#### Andrew T. Trout, M.D.

Assistant Professor of Radiology and Pediatrics Cincinnati Children's Hospital Medical Center Cincinnati, OH

#### Mark Tulchinsky, M.D., FACNM

Professor of Radiology and Medicine Associate Director, Nuclear Medicine Penn State University Milton S. Hershey Medical Center Hershey, PA

#### Alan D. Waxman, M.D.

Director, Nuclear Medicine Cedars-Sinai Medical Center Clinical Professor of Radiology University of Southern California School of Medicine Los Angeles, CA

#### Don C. Yoo, M.D.

Associate Professor of Diagnostic Imaging (Clinical) Rhode Island Hospital Providence, RI

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# Clinical Nuclear Medicine



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### **Program**

#### Session 1

Cardiac SPECT Imaging *Arif Sheikh*, *M.D.* 

SPECT-CT Myocardial Perfusion Imaging: Risk Assessment and Prognosis of CAD *James K. O'Donnell, M.D.* 

SPECT/CT Case Review and Reporting *Paul Shreve*, *M.D.* 

#### Session 2

Renal Scintigraphy *Andrew T. Trout, M.D.* 

State of the Art Hepatobiliary Nuclear Imaging *Pradeep G. Bhambhvani, M.D.* 

Challenging Cases in Acute Hepatobiliary Imaging Mark Tulchinsky, M.D., FACNM

#### Session 3

Scintigraphic Imaging of Gastric Motility *Kevin J. Donohoe, M.D.* 

Standardized Solid Meal Gastric Emptying Study and Alternatives

Pradeep G. Bhambhvani, M.D.

Challenging Cases of Chronic Abdominal Pain on Sincalide Cholescintigraphy

Mark Tulchinsky, M.D., FACNM

#### Session 4

Gastrointestinal Bleeding Scintigraphy *Mark Tulchinsky*, *M.D.*, *FACNM* 

VQ Scans *Arif Sheikh, M.D.* 

Ventilation-Perfusion Scintigraphy: Trinary Versus Probabilistic Interpretation and SPECT verses Planar Imaging Mark Tulchinsky, M.D., FACNM

#### Session 5

Sentinel Node Scintigraphy *Kevin J. Donohoe, M.D.* 

Bone Scintigraphy *Andrew T. Trout, M.D.* 

Palliation of Bone Pain in Cancer: Alpha and Beta Emitter Therapy *James K. O'Donnell, M.D.* 

#### Session 6

Radionuclide Evaluation and Management of Benign Thyroid Disease *Pradeep G. Bhambhvani, M.D.* 

Nuclear Endocrinology: Non-Thyroid *James K. O'Donnell, M.D.* 

Infection and Inflammation Imaging *Don C. Yoo, M.D.* 

#### Session 7

Breast Specific Gamma Imaging Sebastian Obrzut, M.D.

Current Status of Imaging in Prostate Cance David M. Schuster, M.D.

Y-90 Microspheres: How We are Involved as NM Imagers David M. Schuster, M.D.

#### Session 8

Nuclear Medicine Practice: Where is it going? *Paul Shreve, M.D.* 

Cancer Therapy with Beta and Alpha Emitters *James K. O'Donnell, M.D.* 

Dopamine Transport Imaging *Alan D. Waxman, M.D.* 

# **Clinical Nuclear Medicine**

# **PET and PET/CT**

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