



Penn Medicine



PEARLS, PITFALLS & PROTOCOLS: SPRING IMAGING UPDATE

Jointly provided by Postgraduate Institute for Medicine and Penn Medicine Department of Radiology



MARCH 23-27

*Disney's Grand Floridian Resort & Spa
Lake Buena Vista, FL*

CREDITS
22.5 20
CME|SAM

2020



OVERVIEW

Penn Radiology developed this week-long course for radiologists in clinical practice or in-training. This program will focus on practical imaging issues to improve image interpretation across a wide range of common and uncommon clinical scenarios. Novel and cutting-edge imaging 'protocols' will be discussed highlighting potential 'pitfalls.' Selected topics in neuroradiology, abdominal, breast, thoracic, musculoskeletal and pediatric radiology will be covered. There will be daily case conferences emphasizing 'misses and misinterpretations' with an opportunity to earn 20 SAM credits (80% of the ABR requirement for three years).

Questions?

✉ cme@rad.upenn.edu

☎ 215.662.6982

Disney's Grand Floridian Resort & Spa
Lake Buena Vista, FL | **MARCH 23-27, 2020**

PEARLS, PITFALLS & PROTOCOLS:

SPRING IMAGING UPDATE



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COURSE OBJECTIVES

Upon completion of this activity, participants should be able to:

- ☐ Apply the current advances in radiology for accurate image interpretation of adult and pediatric diseases of the brain, neck, chest, abdomen, and joints
- ☐ Describe the role of “supplemental breast screening” in women with dense breast tissue, utilizing “abbreviated breast MRI”
- ☐ Design and implement appropriate imaging protocols that optimize diagnostic accuracy and minimize radiation exposure, particularly in the pediatric population
- ☐ Identify high yield diagnoses throughout multiple specialties of radiology
- ☐ Review common imaging artifacts, anatomic variants, and critical diagnoses and make appropriate management recommendations

Suyash Mohan, MD
COURSE DIRECTOR

Associate Professor of Radiology
& Neurosurgery
Division of Neuroradiology

Saurabh Jha, MD

Associate Professor of Radiology
Division of Cardiothoracic Imaging

Viviane Khoury, MD

Assistant Professor of Radiology
& Orthopaedic Surgery
Division of Musculoskeletal Imaging

Jill E. Langer, MD

Professor of Radiology
Division of Abdominal Imaging

Janet R. Reid, MD, FRCPC

Associate Professor of Clinical Radiology
Children's Hospital of Philadelphia

Susan P. Weinstein, MD

Associate Professor of Radiology
Division of Breast Imaging

John H. Woo, MD

Associate Professor of Radiology
Division of Neuroradiology

► **MEETING MATERIALS**

A link to download the course lecture PDFs will be sent to registered participants in the week leading up to the course. Participants are encouraged to download the PDFs to their phone, tablet or laptop prior to arrival.

Meeting App:

All other course materials are provided via our meeting app, Penn Radiology, available for download in the App Store and Google Play.

On the app, attendees can:

- View the course schedule
- Submit lecture questions in real time using Live Q&A
- Complete self-assessment modules to earn SAM credits
- Access information about the meeting location, activities and dining

In addition to the download link, upon check-in, registrants may request a flash drive containing lecture PDFs. Note: A paper syllabus is not available.

► **CME CERTIFICATES**

CME certificates are managed by CMEUniversity. At the conclusion of the course, participants will be sent a link to a course evaluation. Once completed, the CME certificate is available for download.

ACCREDITATION STATEMENT



JOINTLY ACCREDITED PROVIDER™
INTERPROFESSIONAL CONTINUING EDUCATION

In support of improving patient care, this activity has been planned and implemented by the Postgraduate Institute for Medicine and Penn Medicine

Department of Radiology. Postgraduate Institute for Medicine is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

PHYSICIAN CONTINUING MEDICAL EDUCATION

The Postgraduate Institute for Medicine designates this live activity for a maximum of **22.5 AMA PRA Category 1 Credit(s)™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The total hours covered in each modality, excluding breast lectures include:

**MRI: 12.5 | CT: 9.5 | US: 6.0 | US: 3.0 | Fluoro: 1.0
PET: 0.5 | Angio: 1.0 | XR: 3.5 | CR: 1.0**

The total modality hours covered in the breast lectures include:

DM 2.0 | DBT: 2.0 | US: 2.0 | MRI: 1.5

For Physician Assistants, the APPA accepts certification of participation from courses certified for **AMA PRA Category 1 Credit(s)™** and organizations accredited by the AACME or recognized state medical society. PA's may claim up to **22.5 AMA PRA Category 1 Credit(s)™** for completing this activity.

SELF-ASSESSMENT MODULES (SAMS)

Participants in this activity will have an opportunity to earn **20 Self-Assessment credits (SAM)**. These modules meet the ABR's criteria for a self-assessment activity in the maintenance of certification (MOC) program. All SAM modules are administered through the course meeting app with instant feedback and references provided. Participants will receive a certificate of completion with the number of SAM credits earned within two weeks following the course end date.



SCHEDULE

■ MONDAY, MARCH 23, 2020

- 6:30a Registration | Continental Breakfast
- 7:10 Welcome & Opening Remarks
- 7:15 Pain-in-the-Brain: Interactive Case-Based Misses & Misinterpretations
Suyash Mohan, MD
- 7:45 MDCT and Beyond: Technology Update
Saurabh Jha, MD
- 8:15 An Algorithmic Approach to Brain Tumor Imaging
Suyash Mohan, MD
- 8:45 Mimics of Adult Intra-Axial Brain Neoplasms
John H. Woo, MD
- 9:15 Questions & Answers
- 9:30 Coffee Break
- 9:45 Central Skull Base: Variants and Pathology
Suyash Mohan, MD
- 10:15 Degenerative Spine Imaging, Reflecting Nomenclature 2.0
John H. Woo, MD
- 10:45 Acute and Deep Neck Space Infections: Pearls and Pitfalls
Suyash Mohan, MD
- 11:15 Postoperative Spine Imaging
John H. Woo, MD
- 11:45 Questions & Answers
- 12:00 Adjourn

■ TUESDAY, MARCH 24, 2020

- 6:45a Continental Breakfast
- 7:15 Spine-So-Fine: Interactive Case-Based Misses & Misinterpretations
John H. Woo, MD
- 7:45 Non-Traumatic Neurologic Emergencies: Brain & Spine
Suyash Mohan, MD
- 8:15 Perfusion Imaging in Acute Stroke: Why and How
John H. Woo, MD

- 8:45 CT of Pulmonary Embolism: Pearls and Pitfalls
Saurabh Jha, MD
- 9:15 Questions & Answers
- 9:30 Coffee Break
- 9:45 Thyroid Nodule Characterization Pitfalls
Jill E. Langer, MD
- 10:15 Coronary CT: An Overview
Saurabh Jha, MD
- 10:45 Parathyroid Imaging: Top 5 Pearls
Jill E. Langer, MD
- 11:15 Cardiac MRI: Tricks of the Trade
Saurabh Jha, MD
- 11:45 Questions & Answers
- 12:00 Adjourn

■ WEDNESDAY, MARCH 25, 2020

- 6:45a Continental Breakfast
- 7:15 Think Pink: Interactive Breast Imaging Cases
Susan P. Weinstein, MD
- 7:45 RUQ Pain: More Than Just Looking for Gall-Stones
Jill E. Langer, MD
- 8:15 Hydrocephalus - 2020 Update
John H. Woo, MD
- 8:45 How to Optimize Your Pelvic Sonography Protocol for Chronic Pelvic Pain
Jill E. Langer, MD
- 9:15 Questions & Answers
- 9:30 Coffee Break
- 9:45 Pitfalls in the Evaluation of Ectopic Pregnancy
Jill E. Langer, MD
- 10:15 A Simplified Approach to Vascular Emergencies
Saurabh Jha, MD
- 10:45 Scrotal Sonography: Pearls & Pitfalls
Jill E. Langer, MD
- 11:15 CT for TAVR Planning
Saurabh Jha, MD
- 11:45 Questions & Answers
- 12:00 Adjourn

■ THURSDAY, MARCH 26, 2020

- 6:45a Continental Breakfast
- 7:15 An Organized Protocol-Driven Approach to Common Pediatric Problems
Janet R. Reid, MD, FRCPC
- 7:45 Increasing Your True Positives and Decreasing Your False Negatives in Mammography
Susan P. Weinstein, MD
- 8:15 Beyond Barium for Pediatric Bowel Disease
Janet R. Reid, MD, FRCPC
- 8:45 MR-Guided Breast Biopsy: Pearls and Pitfalls
Susan P. Weinstein, MD
- 9:15 Questions & Answers
- 9:30 Coffee Break
- 9:45 The Strange-Looking Fracture: Pathologic, Insufficiency, and Fatigue Injuries
Viviane Khoury, MD
- 10:15 Refusal to Bear Weight: Identifying the Elusive Cause through Complementary Imaging
Janet R. Reid, MD, FRCPC
- 10:45 Advanced Imaging of the Hip
Viviane Khoury, MD
- 11:15 Supplemental Breast Cancer Screening Utilizing Abbreviated Breast MRI
Susan P. Weinstein, MD
- 11:45 Questions & Answers
- 12:00 Adjourn

■ FRIDAY, MARCH 27, 2020

- 6:45a Continental Breakfast
- 7:15 Case Review: Aunt Minnies of the Upper Extremity
Viviane Khoury, MD
- 7:45 Top 5 Abdominal Tumors in Children and How to Make the Diagnosis
Janet R. Reid, MD, FRCPC
- 8:15 Avoiding “Mis-Steps” in Shoulder and Knee Injuries
Viviane Khoury, MD
- 8:45 UTI and UTO – Navigating the Urinary Tract in Young Children
Janet R. Reid, MD, FRCPC
- 9:15 Questions & Answers
- 9:30 Coffee Break
- 9:45 Shoulder MRI: How I Approach It and Pitfalls to Avoid
Viviane Khoury, MD
- 10:15 MSK Infection: What You Didn’t Learn in Residency!
Janet R. Reid, MD, FRCPC
- 10:45 Pearls in MRI of Skeletal Muscle: Acute and Chronic Sports Injuries
Viviane Khoury, MD
- 11:15 Child Abuse or Not: When to Make the Call
Janet R. Reid, MD, FRCPC
- 11:45 Questions & Answers
- 12:00 Adjourn





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ACCOMMODATIONS

- Run of House \$349/night**
Lagoon View..... \$399/night
**Views of the Seven Seas Lagoon*
Theme Park View \$449/night
**Views of Magic Kingdom® Theme Park*
Concierge Club \$549/night

Rates listed are single/double occupancy, excluding guest room tax, currently 12.5%. A \$25/person/night fee is added to the room rate for each additional person 18 yrs and older. Group rates are available three days before and three days after our group peak arrival date of March 21st and peak departure date of March 27th, subject to room availability. **This rate is available until 02/28/2020**, unless our group block fills sooner. Reservations may be made by phone, fax, or from the course website by clicking on the “Reserve a Room” button under Accommodations.

HOTEL CANCELLATION POLICY

All reservations must be guaranteed for the first night’s room and tax. Individual attendees will be charged for one night’s room and tax if they cancel within 5 days of arrival. Cancellations made prior to 5 days will not be penalized.

MY DISNEY GROUP WEBSITE

After securing hotel accommodations, we recommend utilizing the My Disney Group services website. The site offers information about *Disney’s Grand Floridian Resort & Spa*, ticket sales to the four Theme Parks, info on Disney’s Magical Express service & amenities available to guests at Walt Disney World® Resort.

Disney’s Grand Floridian Resort & Spa

<https://disneyworld.disney.go.com/resorts/grand-floridian-resort-and-spa/>

4401 Floridian Way
Lake Buena Vista, FL 32830-8451
Hotel Direct: 407-824-3000
Reservations: 407-939-4686

CUT-OFF DATE: February 28, 2020

CHECK IN: 3 PM | CHECK OUT: 11 AM

Click the Tickets and More tab, and you will be redirected to a custom link where you can purchase discounted tickets to all of the parks.

TRANSPORTATION

Transfer between Airport & Hotel (Disney’s Magical Express service):

The closest airport to our location is Orlando International Airport (MCO). Walt Disney World® Resort hotels offer complimentary transfer service and luggage delivery via Disney’s Magical Express service. Passengers can go directly from the terminal to the motorcoach, bypassing baggage claim altogether! You’ll get from the airport to your accommodations in comfort and bags will be delivered directly to your room. Complimentary rides back to the airport are available the day you check out.

Transportation inside the Walt Disney World® Resort:

Three separate monorail lines travel throughout the Resort: The Magic Kingdom® Theme Park, Epcot® Theme Park, and Disney Magical Express service. Our meeting hotel has access to all three monorails. The monorail operation begins 30 minutes before the earliest park opens and runs one additional hour after the last park closes.

DINING

Disney Dining is best done with reservations. You may make these reservations 6 months/180 days in advance of your arrival. Guests are encouraged to book dining reservations through the Walt Disney World® Resort website or MyDisney Experience Mobile App.

REGISTRATION

► DISCLOSURE OF CONFLICTS OF INTEREST

Postgraduate Institute for Medicine (PIM) requires instructors, planners, managers and other individuals who are in a position to control the content of this activity to disclose any real or apparent conflict of interest (COI) they may have as related to the content of this activity. All identified COI are thoroughly vetted and resolved according to PIM policy. PIM is committed to providing its learners with high quality activities and related materials that promote improvements or quality in healthcare and not a specific proprietary business interest of a commercial interest.

► DISCLOSURE OF UNLABELED USE

This educational activity may contain discussion of published and/or investigational uses of agents that are not indicated by the FDA. The planners of this activity do not recommend the use of any agent outside of the labeled indications. The opinions expressed in the educational activity are those of the faculty and do not necessarily represent the views of the planners. Please refer to the official prescribing information for each product for discussion of approved indications, contraindications, and warnings.

► DISCLAIMER

Participants have an implied responsibility to use the newly acquired information to enhance patient outcomes and their own professional development. The information presented in this activity is not meant to serve as a guideline for patient management. Any procedures, medications, or other courses of diagnosis or treatment discussed or suggested in this activity should not be used by clinicians without evaluation of their patient's conditions and possible contraindications and/or dangers in use, review of any applicable manufacturer's product information, and comparison with recommendations of other authorities.

► AMERICANS WITH DISABILITIES ACT

Event staff will be glad to assist you with any special needs (i.e., physical, dietary, etc.). Please contact Angela Scott at least two weeks prior to the live event at 215-662-6982 or via email at cme@rad.upenn.edu.

► COURSE CANCELLATION POLICY & TUITION REFUNDS

A full refund for the enrollment fee, less a \$100 administrative cost will be made upon receipt of a written request (via fax or email) if received by 5:00 pm on **Friday, February 21, 2020**. Refunds will not be made after this date.

Penn Medicine's Department of Radiology reserves the right to cancel or postpone any activity due to unforeseen circumstances. In the unlikely event of cancellation or postponement, Penn Radiology will refund registration fees but will not be responsible for related costs or expenses to participants, including cancellation fees assessed by airlines, travel agencies and hotels.

EARLY ENROLLMENT DEADLINE: DECEMBER 31, 2019 (11:59PM)

To register for this conference:

► **ONLINE:** Visit PennMedicine.org/RadiologyCME

► **MAIL:** (USD only)

Penn Radiology CME
3400 Spruce St/1 Silverstein, Suite 130
Philadelphia, PA 19104-4238

Upon receipt of payment, an email confirmation is sent. Be sure to include your preferred email address when registering. Your email is used to send instructions for downloading meeting materials, the meeting app, logging on and completing SAMs.

Name: _____

Affiliation: _____

Address: _____

City, State, Zip: _____

☐ This is my home address

☐ This is my business address

Phone: _____ Fax: _____

Email: _____

► LOYALTY REWARD

A \$100 discount off the Physician fee is available to anyone who attended a live UPENN CME course in 2019 and paid the full Physician Rate. To obtain this discount enter **REPEAT19** (case sensitive) when prompted for the CME Code. (Registrations will be verified.)

CONFERENCE FEES

	Register on or before 11:59 PM 12/31/19	Register after 12:01 AM 1/1/20
☐ Physician Rate	\$910.00	\$985.00
☐ Special Rate*	\$685.00	\$785.00

*The Special Rate is available to Penn Radiology Alumni, VA/Active Military, Physicians outside the USA, Penn Medicine Network Providers, retired physicians, and physicians practicing in the Greater Orlando region. No additional discounts or promotions may be applied to this rate.

All fees include an electronic syllabus, link to the meeting app used to access self-assessment modules, a daily continental breakfast and mid-morning break, an electronic CME certificate immediately available upon completion of the course evaluation and SAM certificate to those who participate.



Penn Medicine

Department of Radiology/Continuing Medical Education
3400 Spruce Street, 1 Silverstein
Philadelphia, PA 19104-4238

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PENN RADIOLOGY CME

2020

- ▶ **JANUARY 5-10**
Breast and Body Imaging at the Beach
Andaz Costa Rica Resort at Peninsula Papagayo
Guanacaste, Costa Rica
- ▶ **JULY 6-10**
42nd Annual Diagnostic Imaging: Back to the Vineyard
The Harbor View Hotel
Edgartown, Massachusetts
- ▶ **MARCH 23-27**
Pearls, Pitfalls & Protocols: Spring Imaging Update
Disney's Grand Floridian Resort & Spa
Lake Buena Vista, Florida
- ▶ **NOVEMBER 9-12**
Imaging Advances
Boca Raton Resort & Club
Boca Raton, Florida

2021

- ▶ **JANUARY 4-7**
Breast Imaging at the Beach
Four Seasons Resort, Punta Mita
Riviera Nayarit, Mexico
- ▶ **JULY 26-30**
Around the Clock Imaging
Hotel Omni Mont-Royal
Montreal, Canada
- ▶ **JUNE 28-JULY 2**
43rd Annual Diagnostic Imaging: Back to the Vineyard
The Harbor View Hotel
Edgartown, Massachusetts

More programs are coming! Visit Penn Radiology's course calendar
PennMedicine.org/RadiologyCME