



Penn Medicine
Radiology



RADIOLOGY AFTER HOURS:

ACUTE DIAGNOSES ON EVENINGS AND WEEKENDS

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

MARCH 25-28

Atlantis Paradise Island Resort
Nassau, Bahamas

CREDITS
19 | 16
CME | SAM

2019



**PERELMAN SCHOOL OF MEDICINE
AT THE UNIVERSITY OF PENNSYLVANIA
FACULTY**

**Suyash Mohan, MD
COURSE DIRECTOR**

Assistant Professor of Radiology
Director, Neuroradiology Clinical
Research Division
Division of Neuroradiology

Viviane Khoury, MD

Assistant Professor of Radiology
Division of Musculoskeletal Imaging

Jill E. Langer, MD

Professor of Radiology
Division of Abdominal Imaging

Arun C. Nachiappan

Associate Professor of Clinical Radiology
Division of Cardiothoracic Imaging

Parvati Ramchandani, MD, FACR

Professor of Radiology and Surgery
Division of Abdominal Imaging

Janet R. Reid, MD, FRCPC

Associate Professor of Clinical Radiology
Children's Hospital of Philadelphia

Muneesh Sharma, MD

GUEST SPEAKER

Clinical Director and Head of Imaging
Doctor's Hospital, Nassau, Bahamas

► **MEETING MATERIALS –
ALL ON OUR APP!**

Course materials are provided via our
Crowd Compass Meeting App – Attendee
Hub. On the app, attendees can:

- View and download lecture slides before
the course
- Complete SAMs with a tap of an icon
- Submit lecture questions in real-time
using live Q&A
- Connect with other attendees

At check-in, all course registrants will
receive a flash drive with PDFs of the
lecture slides. A paper syllabus will not be
available.

Questions may be directed to our office at
215-662-6982 or cme@rad.upenn.edu.

► **CME CERTIFICATES**

At the conclusion of this activity, registered
participants will receive an email with a link
to complete an online evaluation and print
their CME certificate.

► **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. The
existence or absence of COI for everyone in a
position to control content will be disclosed to
participants prior to the start of each activity.

► **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 (ie, 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.

Questions?

✉ cme@rad.upenn.edu

☎ 215.662.6982



OVERVIEW

Rapid changes in health care and recent technological advances have steadily increased the demand for real-time imaging interpretation 24 hours-a-day, seven-days-a-week. As a result, radiologists in most major health care centers as well as in private practice have been asked to provide after-hours, 'final' interpretations.

This course is specially designed for general and sub-specialized radiologists who are working these non-traditional schedules, including rotating after hours shift work, have dedicated evening and overnight radiology shifts, and take call on weekends. Radiologists on call after hours are often required to interpret studies in areas which are different from their weekday routine. This program will review commonly seen disorders in all the key areas of the body to assist you the next time you are covering a shift outside of your comfort zone.

The discussion will focus on pitfalls you want to avoid and how to search for subtle findings. Over four days, faculty will provide participants with practical information to enhance image acquisition and interpretation skills and identify the best modality for a given clinical presentation. Selected topics within neuroradiology, head and neck imaging, abdominal imaging, musculoskeletal radiology, chest and pediatric radiology will be covered. Daily case conferences and the opportunity to earn SAM credits are included.

Nassau, Bahamas | **March 25-28, 2019**

RADIOLOGY AFTER HOURS:

ACUTE DIAGNOSES ON EVENINGS AND WEEKENDS



COURSE OBJECTIVES

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

- ☐ Rapidly determine the appropriate imaging study to perform in the acute setting
- ☐ Identify common and uncommon clinical conditions encountered in the after-hours setting
- ☐ Select the correct imaging protocol particularly for pediatric emergencies to optimize diagnostic accuracy and minimize radiation
- ☐ Explain how to handle incidental findings and make appropriate management recommendations

SCHEDULE

MONDAY, MARCH 25, 2019

- 6:30a Registration/Continental Breakfast
- 7:10 Announcements
- 7:15 Pulmonary Embolism: Old questions and new insights (CT, NM)
Arun C. Nachiappan, MD
- 7:45 Neuroimaging the Found Down Patient: When radiology makes a difference! (MRI, CT)
Suyash Mohan, MD
- 8:15 Pulmonary Infections: Where on Earth? (CT, XR)
Arun C. Nachiappan, MD
- 8:45 Brain Pain: Core CNS Infections (MRI, CT)
Suyash Mohan, MD
- 9:15 SAM/Panel Q&A
- 9:30 Break/Refreshments
- 9:45 Imaging in the ICU: Stay up-to-date and beware of snares (CT, XR)
Arun C. Nachiappan, MD
- 10:15 Tumor is the Rumor: 'WHO' updated it and why? (MRI, CT)
Suyash Mohan, MD
- 10:45 Imaging of Thoracic Trauma: Tips and Traps (CT, XR)
Arun C. Nachiappan, MD
- 11:15 Facial Injuries: Simplified approach to a complex real estate (MRI, CT, XR)
Suyash Mohan, MD
- 11:45 SAM/Panel Q&A
- 12:00 Adjourn

TUESDAY, MARCH 26, 2019

- 6:45a Continental Breakfast
- 7:15 Shortness of Breath: When it is not Pneumonia! (CT, XR)
Arun C. Nachiappan, MD
- 7:45 Bugs and Thugs of the Neck: Non-traumatic ENT emergencies (MRI, CT, XR)
Suyash Mohan, MD
- 8:30 Thoracic Oncologic Imaging and Novel Therapies: A Practical Guide (CT, NM)
Arun C. Nachiappan, MD

- 9:00 Case-based 'itis' Imaging (Part 1): The Genitourinary Tract (CT, MRI, US, F)
Parvati Ramchandani, MD
- 9:30 SAM/Panel Q&A
- 9:45 Break/Refreshments
- 10:00 RUQ Pain: More than just looking for gallstones (US)
Jill E. Langer, MD
- 10:30 Case-based 'itis' Imaging (Part 2): The Gastrointestinal Tract (CT, MRI, F, IR, US)
Parvati Ramchandani, MD
- 11:00 Acute Scrotal Pain: Pearls and Pitfalls (US)
Jill E. Langer, MD
- 11:30 Ouch: The painful tummy—GU and GI causes (CT, MRI, US, R)
Parvati Ramchandani, MD
- 12:15 SAM/Panel Q&A
- 12:30 Adjourn

WEDNESDAY, MARCH 27, 2019

- 6:45a Continental Breakfast
- 7:15 Ultrasound of Ectopic Pregnancy: Here, there and everywhere! (US)
Jill E. Langer, MD
- 7:45 Abdominal and Pelvic Trauma: Tips and Traps (CT, MRI, US, F)
Parvati Ramchandani, MD
- 8:15 Ultrasound in OB/GYN Emergencies (US)
Jill E. Langer, MD
- 8:45 Checklist Approach to Imaging the Acute Abdomen in Pediatrics (XR, US, CT, MR)
Janet R. Reid, MD
- 9:15 SAM/Panel Q&A
- 9:30 Break/Refreshments
- 9:45 Ultrasound Evaluation of Renal Transplants (US)
Jill E. Langer, MD
- 10:15 How to Approach the Work-up of the Limping Child (XR, MR)
Janet R. Reid, MD
- 10:45 The Strange-Looking Fracture: Pathologic, Insufficiency, and Fatigue Injuries (R, MRI)
Viviane Khoury, MD

- 11:15 After Hours Radiology:
A Bahamian Perspective
Muneesh Sharma, MD
- 11:45 Backbone of Radiology: Degenerative
Spine Disease and its 'Mimics' (MRI)
Viviane Khoury, MD
- 12:15 SAM/Panel Q&A
- 12:30 Adjourn

THURSDAY, MARCH 28, 2019

- 6:45a Continental Breakfast
- 7:15 When You Should Suspect Child
Abuse and What to do Next
(XR, US, CT, MR)
Janet R. Reid, MD
- 7:45 Radiography and Extremity Trauma:
Know your Aunt Minnies! (R)
Viviane Khoury, MD
- 8:15 Why is this Child Tachypneic and
How Can I Sort it Out? (XR, CT)
Janet R. Reid, MD
- 8:45 "Is It Infected?" Diagnosing
Musculoskeletal Infections with
Confidence (R, MRI)
Viviane Khoury, MD
- 9:15 SAM/Panel Q&A
- 9:30 Break/Refreshments
- 9:45 The Dreaded Dilemma of Pediatric
Marrow: When to be concerned (XR, MR)
Janet R. Reid, MD
- 10:15 Imaging of Muscle and Tendon
Injuries (US, MRI)
Viviane Khoury, MD
- 10:45 After Hours Pediatric Oncologic
Imaging: Sorting Out Situations That
Need Timely Attention (XR, US, CT, MR)
Janet R. Reid, MD
- 11:15 Avoiding 'Mis-steps' in Knee and
Shoulder Injuries (MRI)
Viviane Khoury, MD
- 11:45 SAM/Panel Q&A
- 12:00 Adjourn

ACCREDITATION STATEMENT

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.



JOINTLY ACCREDITED PROVIDER™
INTERPROFESSIONAL CONTINUING EDUCATION

CREDIT DESIGNATION

The Postgraduate Institute for Medicine designates this live activity for a maximum of **19 AMA PRA Category 1 Credit(s)™**. Physicians should claim only the credit commensurate with the extent of their participation in this activity.

The credit breakdown by day:

Day 1: 4.5 | Day 2: 5 | Day 3: 5 | Day 4: 4.5

The total hours covered in each modality include:

CT: 9.5 | MRI: 9.5 | US: 6.5 | R: 2.0 | XR: 6.0
F: 1.5 | NM: 1.0 | IR: .5

F-Fluoroscopy | R-Radiography

SELF-ASSESSMENT MODULES (SAMS)

8 Self-Assessment Modules (SAMs) worth 2.00 SAM credits each, will be offered. These modules meet the ABR's criteria for a self-assessment activity in the Maintenance of Certification (MOC) program. Participants may earn a maximum of **16 SAM credit hours**.





Atlantis, Paradise Island Resort

www.atlantisbahamas.com

One Casino Drive Suite #59

Paradise Island, Bahamas

HOTEL DIRECT: 1-242-363-3000

CHECK IN: 4:00 PM

CHECK OUT: 11:00 AM

ACCOMMODATIONS

Atlantis is comprised of six elegant lodging facilities with two miles of private beach access. Whether you want to take a slide down the Leap of Faith, splash around with the dolphins at Dolphin Cay, or relax at the spa, Atlantis is truly a Bahamian experience like no other. Adventure awaits at Spring Imaging Update 2019!

Guest rooms have been reserved for attendees and their guests with a special course rate.

To book online, use **Group Code: GUPNM19**

Coral Tower Run-of-House.....\$285

Royal Tower Run-of-House.....\$299

In addition to the above categories, Penn Radiology has negotiated a discount off other room types, based on availability at the time of reservation. These rates are listed below.

Beach Tower Run-of-House.....\$260

Royal Tower Regal Suite.....\$599

Cove Run-of-Suite.....\$529

Room rates are subject to 12% VAT and 11.2% PITDA/ NPIPB posted nightly. A one-time resort fee of \$49.95/night plus 12% VAT will be added to the room fee. Additional mandatory gratuities for children 12 and over (not subject to VAT) include pool/beach attendant/lifeguard gratuity of \$1.60 person/night, one-time bellman charge of \$6.00/person and nightly housekeeping gratuities, (\$5-\$6/ per person, per night) depending on the tower you book. Fees are subject to change. Check with the hotel at the time of booking for current charges. There is no additional charge for children 11 years of age and younger when sharing a room with parents.

The hotel will honor our group rates three days before and after our group arrival and departure dates, subject to room availability. Reservations must be made prior to February 21, 2018, unless our group block fills sooner.

Phone Reservations: 1-866-280-9490

THE RESORT FEE INCLUDES:

- Wi-Fi in guest rooms and lobby areas for up to four (4) devices per room
- Access to the Fitness Center up to two (2) guests per day per room
- Two (2) bottles of water daily per room
- In-Room Coffee and Tea
- Unlimited local phone calls
- Access to the Atlantis Movie Theatre
- Resort shuttle service

HOTEL TRANSFERS

Taxis from Lynden Pindling International Airport (NAS) are readily available. The 25-30 minute trip costs approximately \$38 and can vary depending on the number in your group. Rates are posted at the airport exit and should be reconfirmed with your driver.

US PASSPORT REQUIREMENTS

All US citizens traveling to the Bahamas are required to present a valid passport.

CURRENCY

The Bahamian Dollar is the national currency (BSD). As of April 2018, \$1 USD equals approximately 1 BSD.

REGISTRATION



DINING

Dining plans are available at Atlantis and vary from Casual to Premium plans. More information is available on their website at: www.atlantisbahamas.com

THINGS TO DO AT ATLANTIS

Atlantis offers many options for adventure and leisure, both with the family and individually. Snorkel, scuba or dive with the sharks! Enjoy the fitness center, a yoga class or unwind at the spa. Want to make a splash? The 141-acre water park is filled with water slides, river rides, 11 pools and miles of sandy white beaches. Atlantis also offers the world's largest open-air marine habitat with over 50,000 marine animals. We promise, you won't be bored!

TO BOOK A ROOM:

<http://bit.ly/Atlantis2019>

► COURSE CANCELLATION POLICY & TUITION REFUNDS

A full refund for the enrollment fee, less a \$75 administrative cost will be made upon receipt of a written request (via fax or email) if received by 5:00 pm on Friday, February 22, 2019. 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: JANUARY 13, 2019 (11:59PM)

To register for this conference:

► **ONLINE:** Visit PennMedicine.org/RadiologyCME (Visa, Mastercard, Amex or Discover accepted)

► **MAIL:** Checks (US dollars only drawn on a US bank) payable to **Penn Radiology**

ADDRESS: Penn Radiology CME
3400 Spruce Street / 1 Silverstein
Philadelphia, PA 19104-4238

Telephone and faxed registrations are discouraged. Upon receipt of payment, an email confirmation will be sent to the address provided below. This address is also used for the meeting app invitation.

Name: _____

Affiliation: _____

Address: _____

City, State, Zip: _____

☐ This is my home address ☐ This is my business address

Phone: _____ Fax: _____

Email: _____

(course confirmation is sent by email only)

CONFERENCE FEES

	By 11:59 PM 1/13/19	After 12:01 AM 1/14/19
☐ Physician Rate	\$910.00	\$985.00
☐ Special Rate*	\$650.00	\$725.00

*The Special Rate is available to Penn Medical Alumni, VA/Active Military, Penn Medicine Network Providers, Physicians Outside the U.S., Retired and Residents/Fellows with letter of verification.

► LOYALTY REWARD

A \$100 discount off the Physician fee is available to anyone who attended a UPENN CME course in 2018 and paid the full Physician Rate. To obtain this discount enter RETURN2018 (case sensitive) when prompted for the CME Code. (Registrations will be verified.)

PENN RADIOLOGY CME



Penn Medicine
Department of Radiology

Continuing Medical Education
3400 Spruce Street, 1 Silverstein
Philadelphia, PA 19104-4238

Non-Profit Org.
U.S. Postage
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Permit No. 50
Bellmawr, NJ 08031

2019

► JANUARY 7-10

Breast Imaging at the Beach

Four Seasons Resort
Punta Mita
Nayarit, Mexico

► MARCH 25-28

Radiology After Hours:

Acute Diagnoses on Evenings and Weekends

Atlantis Paradise Island Resort
Nassau, Bahamas

► JULY 8-12

****NOTE LOCATION CHANGE****

41st Annual Diagnostic Imaging:

On Cape Cod

Chatham Bars Inn
Chatham, Massachusetts

► JULY 29-AUGUST 2

NEW! Around the Clock Imaging

Fairmont Pacific Rim
Vancouver, British Columbia, Canada

2020

► JANUARY 5-10

Breast Imaging at the Beach

Andaz Costa Rica Resort at
Peninsula Papagayo
Guanacaste, Costa Rica

► JULY 6-10

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



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Bookmark this site—**PennMedicine.org/RadiologyCME**

Questions: 215-662-6982 | cme@rad.upenn.edu