29th Annual
Duke Radiology Beach Course

July 22–26, 2019
Myrtle Beach, SC

Updated Curriculum – Restructured, Multidisciplinary Approach

Earn 24.5 hours AMA PRA Category 1 Credits™ and 20 hours SA-CME Credit
MYRTLE BEACH, SOUTH CAROLINA

The Grand Strand: The Myrtle Beach “Grand Strand” has been called the “Seaside Golf Capital of the World” with over 100 area golf courses.

Something for Everyone: The Myrtle Beach “Grand Strand” has activities for the entire family. Golf, fishing, scuba diving, parasailing, tennis, swimming, and biking are just some of the many activities available and within easy access during your visit. Whether relaxing at one of the areas premier spas, visiting local historical sites, shopping the outlets, or just soaking up the sun on our 60 miles of beautiful beaches, there is something for everyone at Myrtle Beach.

The Kingston Plantation

Featuring Embassy Suites: Wooded hills surround a twenty-acre freshwater lake and line the winding drive that leads to a half mile stretch of white sand beach. The twenty story, all-suite hotel provides a spectacular view of the ocean from each private balcony. Two and three bedroom luxury oceanfront condominiums or one, two and three bedroom villas set among the forest and lakes provide the ultimate in comfort and amenities during your stay.

Kingston Plantation features the Sport and Health Club which includes nine lighted tennis courts, three racquetball and squash courts, indoor/outdoor pools, whirlpool, weight training equipment, free weights, an aerobics studio, tanning salon, cafe, and lounge. The hotel also has a full-time Golf Director affiliated with over 100 area courses.

So bring your swimsuit, sunglasses, racket, and clubs – the Kingston Plantation welcomes you to an unforgettable vacation!

For details regarding accommodations and amenities of the resort, please visit: www.kingstonplantation.com
TO KINGSTON PLANTATION

BY CAR: The major highways feeding Myrtle Beach are US Highways 501 and 17 and SC Highway 9. From major cities across the country, convenient interstate connectors like I-95 make it easy to reach Myrtle Beach.

BY AIR: Myrtle Beach Jetport is served by American, USAir, and ASA Delta Express with excellent connections from such cities as Charlotte, Raleigh, Atlanta, New York, and Chicago. Business, charter or private planes use Grand Strand Airport in North Myrtle Beach.

Rental cars and limousines are available at both airports. Airport transportation can also be provided by the hotel with prior notice of arrival times.

HOTEL RESERVATIONS

Reservations should be made directly with the Resort at:

Embassy Suites at Kingston Plantation
9800 Queensway Blvd. • Myrtle Beach, SC 29572
By Calling 843.449.0006 or 800.876.0010

Room rates available until June 20, 2019 or until room block is filled. After that date, rates will be dependent upon availability.

Rates do not include a $14 (discounted from $17.99) daily resort fee per unit which includes: Self parking, Basic internet service, Unlimited 800 and local telephone calls, Door to door transportation (includes offsite transportation – 2 mile radius), 24 hour Business Center access, Free racquetball/tennis court rentals (reservation required), Children’s activities, Pool towels. (* includes breakfast and reception daily)

Accommodations will not be confirmed without a check for the first night’s deposit or use of a credit card to guarantee your reservation. You will be charged for the first night if reservations are not canceled 7 days prior to arrival. These prices are exclusive of 12% taxes.

ROOM RATES

Embassy Suites Hotel
Oceanview Suite – $281*

Plantation Villas
2 bedroom – $274
3 bedroom – $295

Oceanside Condo Towers
2 bedroom – $295
3 bedroom – $379

Oceanside Condo Towers
(Brighton)
2 bedroom – $326
3 bedroom – $431
The Duke Radiology annual Beach Course offers a comprehensive curriculum on cutting edge general radiology subjects. This year, the curriculum was re-structured as a multidisciplinary approach with many topics grouped as specific pathology related presentations. It was designed with an experienced or in training radiologist in mind, who will find it helpful to implement the gained knowledge into their busy practice. We invite you to join us for a great opportunity to learn, relax and enjoy your time at the beach.

**LEARNING OBJECTIVES**
At the conclusion of this activity, participants should be able to:

- Identify and discuss the latest modalities and techniques being used in the field of Diagnostic Radiology.
- Discuss differential diagnoses of common disease processes as they are seen on radiologic images.
- Demonstrate compliance with various governing agencies to sustain accreditation, licensing and board certification requirements.

**GENERAL INFORMATION**
Lectures will be held Monday–Friday from 7:30 a.m. to 12:30 in Brighton Tower at Kingston on Lake Drive in Myrtle Beach, South Carolina. Onsite registration and check-in will begin at 7:00 a.m. on Monday, July 22, 2019.

**SPECIAL NEEDS STATEMENT**
**Americans with Disabilities Act (ADA)**
The Duke Department of Radiology is committed to making its activities accessible to all individuals. If you are in need of an accommodation, please do not hesitate to call and/or submit a description of your needs in writing in order to receive service.
ABDOMINAL IMAGING
Brian Allen, M.D., Associate Professor
Mustafa Bashir, M.D., Associate Professor
Wendy Ehieli, M.D., Medical Instructor
Rajan Gupta, M.D., Associate Professor
Barbara Hertzberg, M.D., Professor
Lisa Ho, M.D., Associate Professor
Chad Miller, M.D., Assistant Professor
Rendon Nelson, M.D., Professor
Erik Paulson, M.D., Professor & Chairman
Benjamin Wildman-Tobriner, M.D., Assistant Professor

BREAST IMAGING
Sujata Ghate, M.D., Associate Professor
Connie Kim, M.D., Assistant Professor
Mary Scott Soo, M.D., Professor
Ruth Walsh, M.D., Associate Professor

CARDIOPULMONARY/ CARDIOVASCULAR
Hamid Chalian, M.D., Medical Instructor
Jared Christensen, M.D., Associate Professor
Arya Iranmanesh, M.D., Medical Instructor
Joseph Mamarappallil, M.D., PhD., Assistant Professor
H. Page McAdams, M.D., Professor

INTERVENTIONAL
Jonathan Martin, M.D., Assistant Professor
Waleska Pabon-Ramos, M.D., Assistant Professor
James Ronald, M.D., PhD, Assistant Professor
Tony Smith, M.D., Professor
Paul Suhocki, M.D., Associate Professor

MUSCULOSKELETAL
Robert French, M.D., Assistant Professor
Erin McCrum, M.D., Medical Instructor
Nicholas Said, M.D., MBA, Assistant Professor
Charles Spritzer, M.D., Professor
Emily Vinson, M.D., Assistant Professor

NEURORADIOLOGY
Timothy Amrhein, M.D., Assistant Professor
Daniel Barbioriak, M.D., Professor
David Enterline, M.D., Associate Professor
Peter Kranz, M.D., Associate Professor
Michael Malinzak, M.D., Medical Instructor
James Provenzale, M.D., Professor
Christopher Roth, M.D., Associate Professor

NUCLEAR MEDICINE
Michael Hanson, M.D., Professor
Brandon Howard, M.D., PhD, Assistant Professor
Terence Wong, M.D., Ph.D., Professor

PEDIATRICS
Caroline Carrico, M.D., Associate Professor
Joseph Davis, M.D., Assistant Professor
Charles Maxfield, M.D., Professor
Jennifer Ngo, M.D., Assistant Professor
Gary Schooler, M.D., Assistant Professor

COURSE DIRECTOR
Gary Schooler, M.D.
Assistant Professor
Department of Radiology
Duke University Medical Center
In support of improving patient care, Duke University Health System Department of Clinical Education and Professional Development is accredited by the American Nurses Credentialing Center (ANCC), the Accreditation Council for Pharmacy Education (ACPE), and the Accreditation Council for Continuing Medical Education (ACCME), to provide continuing education for the health care team.

Duke University Health System Department of Clinical Education and Professional Development designates this Duke Radiology Beach Course activity for a maximum of 24.5 AMA PRA Category 1 Credit(s)™. Physicians should claim only credit commensurate with the extent of their participation in the activity.

Disclosures: It is the policy of the Duke University Health System Clinical Education and Professional Development to require the disclosure of anyone who is in a position to control the content of an educational activity. All relevant financial relationships with any commercial interests and/or manufacturers must be disclosed to participants at the beginning of each activity.

Resolution of Conflicts of Interest: Duke University Health System Clinical Education and Professional Development has implemented a process to resolve any potential conflicts of interest for each continuing education activity in order to help ensure content objectivity, independence, fair balance, and the content that is aligned with the interest of the public.

For Further Information Contact:
Debbie Griffin
Department of Radiology • Box 3808
Duke University Medical Center
Durham, NC 27710
919.684.7228 • deborah.griffin@duke.edu
### Monday, July 22, 2019

**Imaging of the Trauma/ER Patient**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>7:30 a.m.</td>
<td>Emergency Radiology of the Thorax – Joseph Mammarappallil, M.D.</td>
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<td>8:00 a.m.</td>
<td>Coronary CTA – Hamid Chalian, M.D.</td>
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<td>8:30 a.m.</td>
<td>Evolution of PE Management – Jonathan Martin, M.D.</td>
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<tr>
<td>9:00 a.m.</td>
<td>Brain and Spine Trauma – James Provenzale, M.D.</td>
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<tr>
<td>9:30 a.m.</td>
<td>Q&amp;A</td>
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<td>9:40 a.m.</td>
<td>Break</td>
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<tr>
<td>9:50 a.m.</td>
<td>Pediatric Imaging Emergencies – Charles Maxfield, M.D.</td>
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<td>10:20 a.m.</td>
<td>Imaging Malrotation and Malfixation of the Bowel in People of All Ages – Caroline Carrico, M.D.</td>
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<td>10:50 a.m.</td>
<td>CT of the Acute Abdomen – Brian Allen, M.D.</td>
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<tr>
<td>11:20 a.m.</td>
<td>Ultrasound Evaluation for Ectopic Pregnancy – Barbara Hertzberg, M.D.</td>
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<td>11:50 a.m.</td>
<td>MRI Assessment of Soft Tissue Infection and Inflammation – Charles Spritzer, M.D.</td>
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<tr>
<td>12:20 p.m.</td>
<td>Q&amp;A</td>
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<tr>
<td>12:40 p.m.</td>
<td>Adjourn for day</td>
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### Tuesday, July 23, 2019

**Updates in Imaging**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>7:30 a.m.</td>
<td>Adrenal Imaging Update – Lisa Ho, M.D.</td>
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<td>8:00 a.m.</td>
<td>CT and MR Enterography for Crohn’s Disease – Benjamin Wildman-Tobriner, M.D.</td>
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<td>8:30 a.m.</td>
<td>MRI of Rectal Cancer Staging – Chad Miller, M.D.</td>
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<td>9:00 a.m.</td>
<td>Digital Breast Tomosynthesis – Mary Scott Soo, M.D.</td>
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<td>9:30 a.m.</td>
<td>Q&amp;A</td>
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<tr>
<td>9:40 a.m.</td>
<td>Break</td>
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<tr>
<td>9:50 a.m.</td>
<td>MRI of the Shoulder – Advanced Techniques – Erin McCrum, M.D.</td>
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<td>10:20 a.m.</td>
<td>Pediatric Neuro Imaging – Michael Malinzak, M.D.</td>
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<td>10:50 a.m.</td>
<td>Update in Prostate PET Imaging – Brandon Howard, M.D., PhD</td>
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<td>11:20 a.m.</td>
<td>Imaging Findings Before and After UFE – Waleska Pabon-Ramos, M.D.</td>
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<td>11:50 a.m.</td>
<td>Moderate Sedation 2019 – Tony Smith, M.D.</td>
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<td>12:20 p.m.</td>
<td>Update on Gadolinium – David Enterline, M.D.</td>
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<tr>
<td>12:50 p.m.</td>
<td>Q&amp;A</td>
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<tr>
<td>1:00 p.m.</td>
<td>Adjourn for day</td>
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Schedule and/or speakers subject to change.
WEDNESDAY, JULY 24, 2019

GENERAL/INSTRUCTIVE CASE SERIES

7:30 a.m.  MRI of the Wrist – Nicholas Said, M.D.
8:00 a.m.  MRI of the Ankle – Emily Vinson, M.D.
8:30 a.m.  Interesting IR Cases – Paul Suhocki, M.D.
9:00 a.m.  Hepatocellular Carcinoma: Usual and Unusual Imaging Appearances – Rendon Nelson, M.D.
9:30 a.m.  Q&A
9:40 a.m.  Break
9:50 a.m.  BIRADS Calcifications – Ruth Walsh, M.D.
10:20 a.m. Imaging After BCT – Watch Out! – Sujata Ghate, M.D.
10:50 a.m. Imaging of Pancreatic Disease – Mustafa Bashir, M.D.
11:20 a.m. Fundamentals of Stroke MRI – Peter Kranz, M.D.
11:50 a.m. Chest/CVI Case Series – Arya Iranmanesh, M.D.
12:20 p.m. Q&A
12:40 p.m. Adjourn for day

THURSDAY, JULY 25, 2019

HOT TOPICS IN RADIOLOGY

7:30 a.m.  Diagnosing IPF on CT: Update 2019 – H. Page McAdams, M.D.
8:00 a.m.  Spontaneous Intracranial Hypotension – Timothy Amrhein, M.D.
8:30 a.m.  Introduction to MSK Ultrasound – Robert French, M.D.
9:00 a.m.  Pediatric Sports Injuries – Jennifer Ngo, M.D.
9:30 a.m.  Q&A
9:40 a.m.  Break
9:50 a.m.  Next Generation Radiology Software – Christopher Roth, M.D.

INCIDENTALOMAS

10:20 a.m. The Incidental Pancreatic Cyst – Erik Paulson, M.D.
10:50 a.m. Dealing with Liver Incidentalomas – Rajan Gupta, M.D.
11:20 a.m. Management of Incidental Renal Masses – Wendy Ehieli, M.D.
11:50 a.m. Incidentalomas in the Pediatric Patient – Gary Schooler, M.D.
12:20 p.m. Q&A
12:40 p.m. Adjourn for day
**FRIDAY, JULY 26, 2019**

**IMAGING IN THE ONCOLOGY PATIENT**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>7:30 a.m.</td>
<td>Lung Cancer Screening in Practice – Jared Christensen, M.D.</td>
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<tr>
<td>8:00 a.m.</td>
<td>Screening for Breast Cancer – BIRADS Masses –</td>
<td>Connie Kim, M.D.</td>
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<td>8:30 a.m.</td>
<td>Neuroendocrine Tumors – Michael Hanson, M.D.</td>
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<tr>
<td>9:00 a.m.</td>
<td>Pediatric Oncology Imaging for the General Radiologist</td>
<td>Joseph Davis, M.D.</td>
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<tr>
<td>9:30 a.m.</td>
<td>Q&amp;A</td>
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<td>9:40 a.m.</td>
<td>Break</td>
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<tr>
<td>9:50 a.m.</td>
<td>Imaging the Gliomas: 2019 Update – Daniel Barboriak, M.D.</td>
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<td>10:20 a.m.</td>
<td>Imaging Findings after Interventional Oncologic Procedures – James Ronald, M.D., PhD</td>
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<tr>
<td>10:50 a.m.</td>
<td>How To Be An Effective Oncologic Radiologist –</td>
<td>Terence Wong, M.D., PhD</td>
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<td>11:20 a.m.</td>
<td>Q&amp;A</td>
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<tr>
<td>11:40 a.m.</td>
<td>Adjourn meeting</td>
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</table>
Registration Fees

$995 for Radiologists/$895 for Duke Radiology Alumni/$795 for Intraining/Military/Retired/Non-MD on or before July 1, 2019. After July 1 the fees become $1,095/$995/$895 respectively. A $100 cancellation fee will be charged.

Online registration is available at https://radiology.duke.edu/cme/28th-annual-duke-radiology-beach-course-2/.

In an effort to be more environmentally conscious, we will distribute syllabus electronically using our new mobile App.

Duke University Conference Services
29th Annual Duke Radiology Beach Course
02 Bryan University Center • Box 90841 • Durham, NC 27708-0841

Name: _________________________________________________________________
Address: _______________________________________________________________
City: ___________________________ State: __________  Zip: _________________
Phone: _______________________________ Fax: _____________________________
E-mail: _________________________________________________________________
Degree: ________________________________________________________________

PAYMENT INFORMATION

$995 for Radiologists/$895 for Duke Radiology Alumni/$795 for Intraining/Military/Retired/Non-MD on or before July 1, 2019. After July 1 the fees become $1,095/$995/$895 respectively.

Make check payable to:
Duke University Conference Services or Credit Card Payment:

[q] Visa   [q] MasterCard

Account #: ______________________________ Exp. Date: ______________________
Please provide the 3- or 4-digit customer code (on the back of card) ______________
Billing Name: ____________________________________________________________
Signature:   _____________________________________________________________

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REGISTER ONLINE AT: www.radiology.duke.edu/cme

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