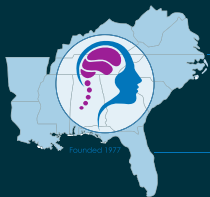


# 45<sup>th</sup> Annual Meeting Southeastern Neuroradiological Society

October 21–23, 2021  
The Henderson  
Destin, Florida



Southeastern  
Neuroradiological  
Society







**Amit M. Saindane, MD, MBA**  
President SENRS

**JOINT ACCREDITATION:** In support of improving patient care, the Duke University Health System Department of Clinical Education & 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.

**CREDIT DESIGNATION:** Duke University Health System Department of Clinical Education and Professional Development designates this live activity for a maximum of **14.25 AMA PRA Category 1 Credit(s)<sup>TM</sup>**. Physicians should claim only credit commensurate with the extent of their participation in the activity.

7.5 hours of self-assessment modules (SAMs) will be offered.



JOINT ACCREDITATION  
INTERPROFESSIONAL CONTINUING EDUCATION



**DukeHealth**

**RESOLUTION OF CONFLICTS OF INTEREST:** Duke University Health System Clinical Education & 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 more information contact:**

**Debbie Griffin**

**919.215.3599 | [SENRSinformation@gmail.com](mailto:SENRSinformation@gmail.com)**



Welcome from the Program Chair



**Joseph C. Sullivan, III MD**  
Vice President/Program Chair

Dear Colleagues,

On behalf of the SENRS, I am very pleased to once again extend an invitation to this years' meeting. It is with a renewed sense of purpose and hope that we look forward to enjoying the fellowship that we have missed so much. The Henderson in Destin Florida on October 21–23 promises to be a perfect backdrop for our return to in person CME and celebrations.

The Henderson is located in Destin, Florida on one of America's highest-rated beaches with white powdery sand and emerald-green water. The resort hotel features sweeping views of the Gulf of Mexico and pristine dunes, as well as a thoughtful and respectful design. More information regarding rooms rates and amenities are included in the brochure.

This years' education program will cover a wide variety of new and interesting Neuroradiology topics while reviewing others including advanced brain, spine, skull base, intervention and pediatrics as well as peripheral topics that influence Neuroradiology diagnosis and practice. We will offer a total of 14.25 hours of CME and 7.5 hours of SAM credits at this years' meeting.

Our Keynote speaker, Dr. Richard Wiggins will entertain and educate us on the errors and misadventures in Neuroradiology practice. He is the past president of both the ASHNR and WNRS. He has a passion for informatics and the potential benefits of AI on medicine and our specialty in particular. His educational background is rooted in the south but has now practiced in Salt Lake City for many years, currently as the Associate Dean of CME there.

The "Stump the SENR Stars" will be back this year with 2 years' worth of material. Teams of the best Neuroradiology minds and many clowns will compete for the crown of "Caput Astrum" in an always informative and jovial display of wits, which continues to best one of the favorite sessions at the meeting.

We are planning a dinner for the group on Thursday evening and a reception and dinner on Friday evening that are included in your registration fee.

So, please come to Florida and join us for what most definitely will be a celebrated return to in person meeting with colleagues sure to provide wonderful fellowship while enjoying a stimulating educational program that will help fulfill the drab requirements of CME, SAMs and MOC. Take this opportunity to get this all done while giving yourself and your family a welcome break at an incredible beach front resort on the beautiful Gulf Coast of Florida.

**Joseph C. Sullivan, III MD**  
Vice President/Program Chair





## The Henderson

The Henderson is located in Destin, Florida on one of America's highest-rated beaches with white powdery sand and emerald-green water. The resort hotel features sweeping views of the Gulf of Mexico and pristine dunes, as well as a thoughtful and respectful design.

The Henderson offers luxurious accommodations. The beautiful guest rooms and suites will include stylish furnishings, yet remain authentic to the local, cultural surroundings. The Salamander Spa draws upon the inspirational beachfront venue with treatments that incorporate the natural surroundings.

Destin and the surrounding area is full of adventure and fun. In addition to world-class fishing, it offers uncrowded, sugar-white beaches, spectacular open-air shopping, fresh local seafood restaurants and championship golf courses. The harbor is only a five-minute drive from the Resort, which offers numerous water activities and shopping.

The Henderson is approximately 30 minutes from the Destin/Fort Walton Beach airport – 1 hour and 5 minutes from the Panama City airport and 1 hour and 20 minutes from the Pensacola airport. Please note that the hotel does not provide airport shuttle service to any of the airports. Private transportation can be arranged from a number of companies listed on the airports' websites. Lyft and Uber are also readily available.

Reservations can also be made online at:

<https://hendersonbeachresort.com/#/booking/step-1?group=1012QH>



# Hotel Accommodations



Rooms are being held for the meeting from **Wednesday, October 20 through Saturday, October 23** at a group rate of \$289 per night single/double. **Reservations should be made by September 20, 2021 at 5:00 pm.** Reservation requests made after 5:00 pm on September 20 will be accepted at Resort's prevailing rate, based on availability. Room rates are quoted subject to applicable sales and occupancy taxes.

Included in the room rate is a resort fee which covers:

- Henderson Beach Resort's private beach access
- Beach bikes
- Select water sport activities including paddle boards, kayaks, and kick boards
- Concierge transportation from Destin Harbor to Silver Sands Outlet Mall
- Daily family pass to Henderson State Park
- Morning coffee and afternoon tea station in the living room
- Afternoon infused water station
- Chilled towels and water after your walk or run (seasonal)
- Sunset salutation to enjoy the daily celebration of the sun sinking into the Gulf Waters
- 23-hour Business Center

Covered, underground, secure valet parking has been reduced to \$15 per night. Self-parking has been reduced to \$10 per night for our group.

In the event that a guest checks out prior to the reserved checkout date, an early departure fee of one night's stay will be charged to the guest's individual account. Please advise the resort at check-in of any change in the scheduled length of stay.

Reservations should be made directly with the Resort's reservation office by calling **1.855.741.2777**. Please make sure to mention Southeastern Neuroradiological Society to ensure you receive the group rate for your accommodation.



Registration



## Registration fees:

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- \$425 SENRS Member
- \$675 Non-Member
- \$275 Spouse/Trainee

Registration fees include meeting materials, breakfasts and breaks, dinner on Thursday and reception and dinner on Friday. RSVPs will be required at time of meeting registration.

Online registration is available at [senrs.net](https://senrs.net).

## Speakers

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### **Jacqueline Angel, MD**

Chief of Head & Neck Imaging  
Assistant Professor  
Department of Radiology  
University of Tennessee Health Science Center  
Memphis, Tennessee

### **Asim Bag, MBBS, MD**

Associate Member Diagnostic Imaging  
St. Jude Children's Research Hospital  
Memphis, Tennessee

### **Richard D. Beegle, MD**

AdventHealth Medical Group Radiology  
Central Florida Division  
Orlando, Florida

### **Alok A. Bhatt, MD**

Senior Associate Consultant  
Division of Neuroradiology  
Department of Radiology  
Mayo Clinic  
Jacksonville, Florida

### **Daniel F. Broderick, MD**

Assistant Professor of Radiology  
Mayo Clinic College of Medicine and Science  
Jacksonville, Florida

### **Paul M. Bunch, MD**

Department of Radiology  
Wake Forest School of Medicine  
Winston-Salem, North Carolina

### **Amit Desai, MD**

Senior Associate Consultant  
Division of Radiology  
Mayo Clinic  
Jacksonville, Florida

### **Austin Dixon, MD**

Assistant Professor of Radiology  
Department of Radiology  
Duke University Medical Center  
Durham, North Carolina

### **Majid Khan, MD**

Associate Professor  
Department of Radiology  
Thomas Jefferson University Hospital  
Philadelphia, Pennsylvania

### **Claudia F.E. Kirsch, MD**

Professor of Neuroradiology and Otolaryngology  
Department of Radiology Northwell Health  
Manhasset, New York

### **Mary Elizabeth Jensen, MD**

Professor of Radiology and Neurosurgery  
Department of Radiology, Interventional  
Neuroradiology  
University of Virginia Health Systems  
Charlottesville, Virginia

### **Linda Gray Leithe, MD**

Associate Professor of Radiology  
Department of Radiology  
Duke University Medical Center  
Durham, North Carolina

### **Michael Malinzak, MD, PhD**

Assistant Professor of Radiology  
Department of Radiology  
Duke University Medical Center  
Durham, North Carolina

### **Erik H. Middlebrooks, MD**

Senior Associate Consultant  
Department of Radiology, Mayo Clinic  
Jacksonville, Florida



## Speakers

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### **David Miller, MD**

Assistant Professor of Radiology  
Mayo Clinic Jacksonville  
Jacksonville, Florida

### **Bradford C. Mitchell, MD**

Charlotte Radiology, PA  
Charlotte, North Carolina

### **Sugoto Mukherjee, MD**

Associate Professor  
Department of Radiology & Medical Imaging  
University of Virginia Health System  
Charlottesville, Virginia

### **Mark E. Mullins, MD**

Department of Radiology and Imaging Sciences  
Emory University School of Medicine  
Atlanta, Georgia

### **Ryan Murtagh, MD**

Adjunct Professor  
University of South Florida College of Medicine  
Tampa, Florida

### **Jacob Noe, MD**

Assistant Professor and Medical Director, Radiology  
University of Tennessee GSM Knoxville  
Knoxville, Tennessee

### **C. Douglas Phillips, MD**

Professor of Radiology  
Weill Cornell Medical College  
New York, New York

### **Noah D. Sabin, MD, JD**

Associate Member  
Department of Diagnostic Imaging  
St. Jude Children's Research Hospital  
Memphis, Tennessee

### **Amit Saindane, MD, MBA**

2021 SENRS President  
Department of Radiology and Imaging Sciences  
Emory University Hospital  
Atlanta, Georgia

### **Ilona M. Schmalfluss, MD**

Department of Radiology  
University of Florida  
Gainesville, Florida

### **Deborah Shatzkes, MD**

Professor, Diagnostic Radiology and Otolaryngology  
Zucker School of Medicine at Hofstra-Northwell  
Lenox Hill Hospital  
New York, New York

### **Jeffrey Stone, MD**

Associate Professor of Radiology  
Mayo Clinic Jacksonville  
Jacksonville, Florida

### **Joseph Sullivan III, MD**

2021 Vice President/Program Chair  
Mid-South Imaging  
Germantown, Tennessee

### **Surjith Vattoth, MD**

Associate Professor of Radiology  
Division of Neuroradiology  
University of Arkansas for Medical Sciences  
Little Rock, Arkansas

### **Richard H. Wiggins III, MD**

Professor of Radiology  
University of Utah  
Salt Lake City, Utah



## THURSDAY, OCTOBER 21, 2021

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12:00–12:05 ..... Welcoming Remarks  
*Joseph Sullivan III, MD and Amit Saindane, MD, MBA*

### PEDIATRIC AND SPINE IMAGING

12:05–12:30 ..... Development in Neuroimaging in Survivors of Childhood Cancer  
*Noah Sabin, MD*

12:30–12:55 ..... Neuroimaging in Congenital Heart Disease | *Michael Malinzak, MD, PhD*

12:55–1:20 ..... Genomic Landscape of Pediatric Brain Tumors | *Asim Bag, MBBS, MD*

1:20–1:45 ..... Classification of Spinal Trauma | *Ryan Murtagh, MD*

1:45–2:10 ..... Iatrogenic Causes and Treatment of CSF Leaks | *Linda Gray Leithe, MD*

2:10–2:20 ..... SAM Questions and Review

### ADVANCED BRAIN IMAGING

2:20–2:45 ..... Break

2:45–3:10 ..... Getting Ahead of the Curve – Upcoming Changes in Brain Tumor  
Classification 5th Edition | *Sugoto Mukherjee, MD*

3:10–3:35 ..... Mastering Temporal Lobe Epilepsy | *Erik Middlebrooks, MD*

3:35–4:00 ..... Imaging in Dementia | *Mark Mullins, MD*

4:00–4:25 ..... MR Perfusion: Theory and Application | *Amit Desai, MD*

4:25–4:50 ..... I, Radiologist: Artificial Intelligence and Neuroimaging  
*Brad Mitchell, MD*

4:50–5:00 ..... SAM Questions and Review

5:00–6:30 ..... Stump the SENRS Stars

## FRIDAY, OCTOBER 22, 2021

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- 7:00–8:00 ..... SENRS Members Business Meeting
- 8:00–8:05 ..... Welcome and Announcements | *Joseph Sullivan III, MD*

### ADVANCED NEUROIMAGING RECOGNITION

- 8:05–8:30 ..... Interesting Neuroradiology Case Review Inspired by New York Times Medical Mystery Presentations | *Daniel Broderick, MD*
- 8:30–8:55 ..... Head and Neck: Distinguishing Tumor and Tumor Mimics  
*Jacqueline Angel, MD*
- 8:55–9:20 ..... Update on COVID-19 Manifestations in the Head and Neck  
*Claudia Kirsch, MD*
- 9:20–9:45 ..... 4D Parathyroid Imaging – The ‘Where’s Waldo’ of the Lower Neck  
*Surjith Vattoth, MD*
- 9:45–9:55 ..... SAM Questions and Review

### SKULL BASE AND BEYOND

- 9:55–10:10 ..... Break
- 10:10–10:35 ..... Pearls and Pitfalls in Imaging of the Sella | *Amit Saindane, MD, MBA*
- 10:35–11:00 ..... Salivary Lesions, Imaging Approach and Differential Considerations  
*Jacob Noe, MD*
- 11:00–11:25 ..... Update on Malignant Sinus Tumors: New Diagnoses and Imaging Techniques | *Deborah Shatzkes, MD*
- 11:25–11:55 ..... Clival Lesions | *Doug Phillips, MD*
- 11:55–12:00 ..... SAM Questions and Review
- 12:00–12:30 ..... KEYNOTE – Fallor Ergo Sum, Misadventures in Head and Neck  
*Richard Wiggins, MD*



**SATURDAY, OCTOBER 23, 2021**

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- 7:30–8:00 ..... Oral Poster Presentations
- 8:00–8:05 ..... Welcome and Announcements | *Joseph Sullivan III, MD*

**DIAGNOSIS, INTERVENTION AND TREATMENT GUIDANCE**

- 8:05–8:30 ..... Patient Selection for Transoral Robotic Surgery (TORS) in Oropharyngeal Squamous Cell Carcinoma: What the Surgeon Wants to Know | *Paul Bunch, MD*
- 8:30–8:55 ..... The Facet Joint: Imaging and Intervention | *Jeffrey Stone, MD*
- 8:55–9:20 ..... Spine Tumor Ablation – An Overview | *Majid Khan, MD*
- 9:20–9:45 ..... Transvenous Embolization for CSF Venous Fistula in Intracranial Hypotension | *David Miller, MD*
- 9:45–10:10 ..... Neurointerventional Procedures from a Radial Artery Approach: Ready for Prime Time | *Lee Jensen, MD*
- 10:10–10:25 ..... Break

**PERIPHERAL AFFECTS IN NEUROIMAGING**

- 10:25–10:50 ..... Skin Cancer, The Evil of the South | *Ilona Schmalfuss, MD*
- 10:50–11:15 ..... No Sweat Approach to Horner Syndrome | *Bhatt Alok, MD*
- 11:15–11:40 ..... Tooth Be Told: Practical Dental Radiology | *Richard Beegle, MD*
- 11:40–12:05 ..... ACR Update | *Joseph Sullivan III, MD*
- 12:05–12:30 ..... Entrepreneurship in Radiology | *Austin Dixon, MD*