



53rd Annual Meeting | American Society of

Head & Neck Radiology

Head and Neck Imaging in the Valley of the Sun

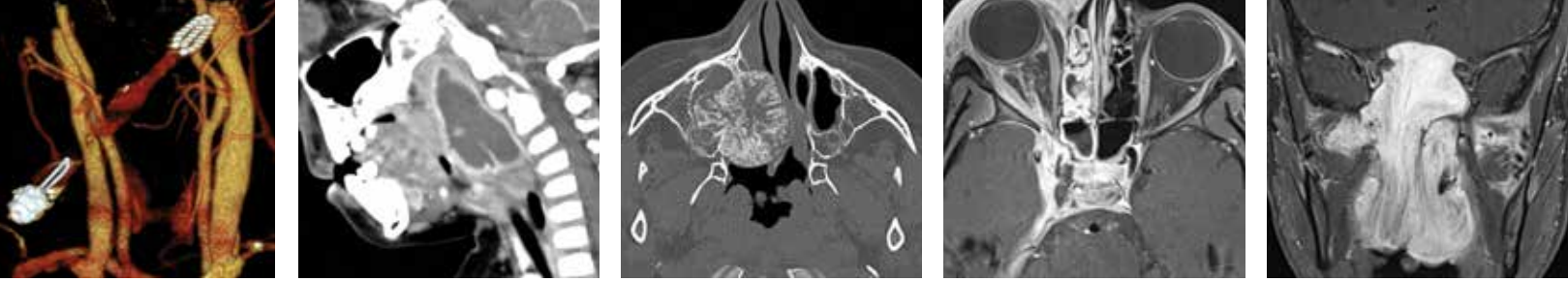
October 2 - 6, 2019

The Westin Kierland Resort & Spa
Scottsdale, Arizona

28.75 AMA PRA Category 1 Credit(s)TM

8.75 hours will be submitted for SAM qualification.

Call for Abstracts at www.ashnr.org • Deadline: June 2, 2019



From The President-Elect and Program Chair

On behalf of the American Society of Head and Neck Radiology I'm delighted to welcome you to the 53rd Annual Meeting of the ASHNR, which will be held in Scottsdale, Arizona from Wednesday, October 2 – Sunday, October 6, 2019. *Head and Neck Imaging in the Valley of the Sun* will kick off with the Early Bird Session on Wednesday morning titled *Errors are Opportunities: Mistakes, Misses & Difficult Diagnoses*. A theme of mentoring will be emphasized in this opening session, reprised in the popular "Pearl from My Mentor" presentations, and discussed in detail during a Mentoring Meal, to be held during the meeting for trainees and faculty who have newly embarked on their careers.

Lectures will incorporate basic core and advanced, specialized topics on a wide variety of head and neck imaging topics, including applied anatomy and disease processes involving the orbits, sinonasal regions, skull base, temporal bones, lymph nodes & glands, H & N spaces, teeth and jaws. There will also be a new session on Artificial Intelligence. In total there will be 28.75 *AMA PRA Category 1 Credit(s)*[™] and 5 SAM sessions, with talks from approximately 80 talented speakers, considered experts in their field, including 10 rising stars whom we warmly welcome to the ASHNR meeting podium.

The beautiful and tranquil Westin Kierland Resort & Spa, located near the McDowell Mountains in Scottsdale, with panoramic views of surrounding mountains, celebrates the rich legacy of Arizona. Accessible from major cities by direct flights to Phoenix, the resort is located about 20 miles from the airport. Resort features include a world class Golf Club, the Agave Spa, a 24 hour fitness studio, swimming pools, tennis courts, bike rentals, babysitting services, a kids club and several excellent restaurants. Cats and dogs are also welcome! Abundant dining, retail and entertainment options are located within walking distance. Scottsdale and nearby Phoenix offer a wealth of activities including innumerable great hiking trails, hot air ballooning, OdySea Aquarium, Butterfly Wonderland, Desert Botanical Garden, and a variety of museums and art galleries. In closing, I am honored to invite you to attend the 53rd Annual ASHNR meeting for abundant excellent educational opportunities, to reconnect with and make new friends and to enjoy the gorgeous Valley of the Sun.

Caroline D. Robson, MBChB

President-Elect and Program Chair
American Society of Head & Neck Radiology

Accreditation

Physicians: This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint providership of Educational Symposia and the American Society of Head & Neck Radiology. Educational Symposia is accredited by the ACCME to provide continuing medical education for physicians.

Educational Symposia designates this live activity for a maximum of 28.75 *AMA PRA Category 1 Credit(s)*[™], including 1.5 *AMA PRA Category 1 Credit(s)*[™] for the Early Bird Session. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Self-Assessment Modules (SAMs): Educational Symposia has been granted Deemed Status by the American Board of Radiology (ABR). This allows Educational Symposia to develop and implement SAMs that satisfy ABR Part II MOC requirements.

Technologists: This program has been submitted to the ASRT. The number of Category A CE credits will be available approximately 30 days prior to the meeting. Please visit ashnr.edusymp.com or call (813) 806-1000 regarding the availability of Category A CE credit.

Target Audience

- General radiologists seeking to improve their understanding and skills in head and neck imaging.
- Radiologists with neuroradiology training or an interest in head and neck imaging who wish to increase their knowledge of imaging and treatment of head and neck pathology.
- Non-radiologists, including otorhinolaryngologists, head and neck surgeons, medical and radiation oncologists, and general surgeons, who are interested in head and neck cancer therapy and diagnosis.
- Dental and oral-maxillofacial practitioners with an interest in pathology and imaging of the jaws and adjacent tissues.
- Allied health professionals, including physician assistants, nurses, nurse practitioners and radiology technologists with an interest in head and neck cancer or head and neck imaging.
- Physicians-in-training, residents and fellows pursuing careers in radiology, otolaryngology, maxillofacial surgery and treatment of head and neck cancer.



Educational Objectives

Attendees should, at the completion of this meeting, be able to:

- Recognize sources of error in head and neck imaging and develop strategies for error prevention.
- Become familiar with applied anatomy and diseases of the orbits, sinuses and nasal cavity while providing important preoperative information.
- Review normal anatomy, developmental anomalies and disease processes of the skull base.
- Identify temporal bone anatomy and develop a diagnostic approach to different types of hearing loss, inflammatory and neoplastic disorders and the post-operative temporal bone.
- Assess anatomy and abnormality in relation to cranial nerves, the brachial plexus and sympathetic chain while also recognizing denervation atrophy.
- Develop an understanding of artificial intelligence.
- Demonstrate increased knowledge of the anatomy of the head and neck spaces and diagnostic considerations for each space.
- Recognize atraumatic emergencies related to the pediatric and adult airway, neck infections, the temporal bone and orbit.
- Diagnose and distinguish between vascular anomalies, developmental lesions and malignant pediatric head and neck tumors.
- Review cancer staging, different etiologies and anatomic locations of head and neck cancer, perineural tumor spread, advanced imaging techniques and post therapeutic imaging.
- Identify normal anatomy and disease affecting the nodal and glandular tissues of the neck.
- Develop an approach to jaw lesions, dental nomenclature and temporomandibular joint imaging.
- Describe the various types of traumatic injury in the head and neck, associated complications, and the use of 3D computer generated imagery models in the assessment of trauma.

No special educational preparation is required for this CME activity.

CALL FOR ABSTRACTS

CALL FOR ABSTRACTS for both Oral Scientific Papers and Electronic Educational Exhibits, including information, instructions and forms, are available on our website www.ashnr.org. Deadline for submissions is **Sunday, June 2, 2019**.

Special Note for the Disabled

Educational Symposia (ESI) and the American Society of Head & Neck Radiology (ASHNR) wish to ensure that no individual with a disability is excluded, denied services, segregated or otherwise treated differently from other individuals because of the absence of auxiliary aids and services. If you need any auxiliary aids or services identified in the Americans with Disabilities Act, please contact ESI at (813) 806-1000.

Disclaimer

Educational Symposia (ESI) and the American Society of Head & Neck Radiology (ASHNR) as planners and presenters of this meeting claim no liability for the acts of any suppliers or the safety of any attendees while in transit to, from, or during, this event or any optional activities. The total amount of liability, if any, for the meeting organizers is limited to a refund of the registration fee.

2018-2019 Program Committee

Caroline D. Robson, MBChB
President-Elect and Program Chair

Ashley H. Aiken, MD

Nancy J. Fischbein, MD

Christine M. Glastonbury, MBBS

Tabassum A. Kennedy, MD

C. Douglas Phillips, MD, FACR

Ilona M. Schmalfluss, MD

Deborah R. Shatzkes, MD

Ashok Srinivasan, MD

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Immediate Past President

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ACR Councilor

EARLY BIRD SESSION: Errors are Opportunities: Mistakes, Misses & Difficult Diagnoses

Wednesday, October 2, 2019

10:30 AM – 12:00 PM

Please join us for the Errors are Opportunities: Mistakes, Misses and Difficult Diagnoses Early Bird Session (1.5 AMA PRA Category 1 Credits (s)TM) which will be an opportunity for registrants to show cases. Please email your PowerPoint presentation with anonymized cases, free of any patient identifiers, to caroline.robson@childrens.harvard.edu. While a limited number of cases may additionally be accepted in person up to 15 minutes before the session start, priority will be given to those submitted via email in advance. Please carefully select the number of images, as each case will be limited to approximately 3-4 minutes, including discussion. Individuals will be allowed to show a maximum of 2 cases to allow as many attendees as possible to participate.

Pearl From My Mentor

Honor a mentor by preparing a PowerPoint presentation (duration ≤ 5 minutes) that includes a “pearl” that you were taught, with an illustrative example, together with your mentor’s name and photograph. Please email presentations to caroline.robson@childrens.harvard.edu.

Meeting Program

Wednesday, October 2, 2019

9:00 AM Registration Opens

Early Bird Session: Errors are Opportunities: Mistakes, Misses and Difficult Diagnoses

10:30 – 12:00 PM Moderators:
Philip R. Chapman, MD, Nancy J. Fischbein, MD and
Caroline D. Robson, MBChB
Please email your cases ahead of time to the panelists at:
caroline.robson@childrens.harvard.edu

12:00 – 12:55 Lunch On Your Own

12:55 – 1:00 Opening Remarks
Caroline D. Robson, MBChB

Session 1 - Core Curriculum/Orbits

Moderators: Larissa T. Bilaniuk, MD, FACR and Mary E. Cunnane, MD

1:00 – 1:15 Ocular Anatomy & Developmental Lesions of the Globe
Rupa Radhakrishnan, MD, MBBS, MS

1:15 – 1:35 Visual Field Defects
Asim F. Choudhri, MD

1:35 – 1:55 Orbital Inflammation
Mary E. Cunnane, MD

1:55 – 2:15 Orbital Tumors: Rad-Path Correlation
Nikdokht Farid, MD

2:15 – 2:30 Endoscopic Endonasal Surgery for Orbital Tumors:
What the Surgeon Wants to Know
Katherine L. Reinshagen, MD

Session 2 - Core Curriculum/Sinuses

Moderators: Tabassum A. Kennedy, MD and Vijay M. Rao, MD, FACR

2:30 – 2:50 Sinonasal Anatomy
Tabassum A. Kennedy, MD

2:50 – 3:10 Complications of Acute Sinusitis
Joseph M. Hoxworth, MD

3:10 – 3:25 Fungal Disease
Eugene Yu, MD, FRCP

3:25 – 3:40 Chronic Sinonasal Disease
Keivan Shifteh, MD, FACR

3:40 – 4:10 Refreshment Break and Visit Exhibitors

Session 3 - Core Curriculum/Sinuses & Anterior Skull Base

Moderators: Amit Agarwal, MD and William P. Dillon, MD

4:10 – 4:30 Anterior & Central Skull Base Anatomy:
What the Surgeon Wants to Know
Jeffrey P. Guenette, MD

4:30 – 4:50 Developmental Anomalies & Variants:
Anterior & Central Skull Base
Susan I. Blaser, MD, FRCP(C)

4:50 – 5:10 CSF Leaks & Idiopathic Intracranial Hypertension
Kristen Lloyd Baugnon, MD

5:10 – 5:30 Skull Base Inflammatory Disease
Claudia F.E. Kirsch, MD

5:30 – 5:50 Anterior Skull Base & Sinonasal Tumors
David R. DeLone, MD

5:50 – 6:10 Central Skull Base Tumors
Karen L. Salzman, MD

6:10 End of Session

6:30 Opening Reception

Thursday, October 3, 2019

7:00 – 7:45 AM Continental Breakfast for Registrants

Session 4 - SAM Session I -

Core Curriculum/Temporal Bone & Posterior Skull Base*

Moderators: Joel D. Swartz, MD and Sugoto Mukherjee, MD

7:45 – 8:05 Temporal Bone Anatomy
Benjamin Y. Huang, MD, MPH

8:05 – 8:35 Valvassori Lecture: Conductive Hearing Loss
Hugh D. Curtin, MD, FACR

8:35 – 8:55 Pediatric Sensorineural Hearing Loss: Top 5
Caroline D. Robson, MBChB

8:55 – 9:15 Infection & Cholesteatoma
Luke N. Ledbetter, MD

9:15 – 9:35 Temporal Bone & Posterior Skull Base Tumors
John I. Lane, MD

9:35 – 9:55 Post Operative Temporal Bone
Gul Moonis, MBBS

9:55 – 10:15 Refreshment Break and Visit Exhibitors

Thursday, October 3, 2019 (continued)

Session 5 - Cranial Nerves: Anatomy & Abnormalities

Moderators: Gregory D. Avey, MD and Christine M. Glastonbury, MBBS, MD

10:15 – 10:35 Cranial Nerves III, IV, VI
Ari M. Blitz, MD

10:35 – 10:55 Cranial Nerve V
Christine M. Glastonbury, MBBS, MD

10:55 – 11:15 Cranial Nerve VII
Courtney M. Tomblinson, MD

11:15 – 11:35 Cranial Nerve VIII
John L. Go, MD, FACR

11:35 – 11:55 Cranial Nerves IX - XI
Bruno A. Policeni, MD, MBA

11:55 – 12:10 PM Cranial Nerve XII
Cynthia Wu, MD

12:10 – 12:15 Pearl From My Mentor ♦

12:15 – 1:15 Lunch On Your Own

Session 6 - Cranial, Cervical & Mediastinal Nerves

Moderators: Joseph M. Aulino, MD and Girish M. Fatterpekar, MBBS, DNB, MD

1:15 – 1:30 Denervation Atrophy
Wendy R.K. Smoker, MS, MD, FACR

1:30 – 1:50 Brachial Plexus MRI
Carlos H. Torres, MD, FRCP

1:50 – 2:10 Horner Syndrome
Deborah L. Reede, MD

2:10 – 3:10 Scientific Paper Session I ♦
Moderators: Laura B. Eisenmenger, MD and Osamu Sakai, MD, PhD

3:10 – 3:30 Refreshment Break and Visit Exhibitors

Session 7 - Artificial Intelligence & Error Prevention

Moderators: Mohit Agarwal, MD and Ashok Srinivasan, MD

3:30 – 3:50 Fallor Ergo Sum: Misadventures in Head & Neck Imaging
Richard H. Wiggins, III, MD, CIIP, FSIM

3:50 – 4:10 Missed Cases
Philip R. Chapman, MD

4:10 – 4:30 Machine Learning: Random Forest, Random Tree
Ashok Srinivasan, MD

4:30 – 4:50 Deep Learning & Advanced Imaging of Skull Base Tumors
Atul K. Malik, MD

4:50 – 5:05 Augmented Reality: Educational & Clinical Applications
in Skull Base Imaging
Jesse Courtier, MD

Session 8 - The ASHNR Game Show

5:05 – 6:00 Hosts: Lawrence E. Ginsberg, MD, C. Douglas Phillips, MD, FACR
and Richard H. Wiggins, III, MD, CIIP, FSIM

6:00 End of Session

Friday, October 4, 2019

7:00 – 7:45 AM Continental Breakfast for Registrants

Session 9 - Sam Session II - Core Curriculum / Head & Neck Spaces*

Moderators: Roberta W. Dalley, MD and Jennifer L. McCarty, MD

7:45 – 8:00 Retropharyngeal & Danger Space
Mari Hagiwara, MD

8:00 – 8:15 Carotid & Parapharyngeal Spaces
Rebecca S. Cornelius, MD, FACR

8:15 – 8:30 Masticator Space
Daniel E. Meltzer, MD

8:30 – 8:50 Oral Cavity
Rihan Khan, MD

8:50 – 9:10 Larynx & Hypopharynx
Bronwyn E. Hamilton, MD

9:10 – 9:30 Refreshment Break and Visit Exhibitors

Friday, October 4, 2019 (continued)**Session 10 - Head & Neck Top 5: Non-Traumatic Emergencies***Moderators: Alok A. Bhatt, MD and Justin Brucker, MD*9:30 – 9:50 **Top 5 Emergencies: Pediatric Airway**
*Timothy N. Booth, MD*9:50 – 10:10 **Top 5 Emergencies: Adult Airway**
*Karen A. Tong, MD*10:10 – 10:30 **Top 5 Emergencies: Neck Infection**
*Hillary R. Kelly, MD*10:30 – 10:50 **Top 5 Emergencies: Temporal Bone**
*Nicholas A. Koontz, MD*10:50 – 11:10 **Top 5 Emergencies: Orbit**
*Blair A. Winegar, MD***11:10 – 11:15 Pearl From My Mentor ♦****11:15 – 11:25 2018 William N. Hanafee, MD Research Grant Award Presentation ♦***Moderator: Reza Forghani, MD, PhD*
*Recipient: Mai-Lan Ho, MD***11:25 – 12:25 PM Scientific Paper Session II ♦***Moderators: Anthony M. Alleman, MD, MPH and Jennifer L. McCarty, MD***12:30 – 1:30 Gold Medal Award Luncheon ♦**
Afternoon On Your Own**Saturday, October 5, 2019****7:00 – 7:45 AM Continental Breakfast for Registrants****Session 11 - SAM Session III - Vascular Anomalies, Developmental & Neoplastic Lesions****Moderators: Anton N. Hasso, MD, FACR and Karuna V. Shekdar, MD*7:45 – 8:05 **Hemangioma, PHACES & Overgrowth Syndromes**
*Mark D. Mamlouk, MD*8:05 – 8:30 **Vascular Malformations**
*Deborah R. Shatzkes, MD*8:30 – 8:50 **Benign Lesions of the Head & Neck**
*Bernadette L. Koch, MD*8:50 – 9:10 **Malignant Tumors of the Pediatric Head & Neck**
*Karen K. Moeller, MD***9:10 – 9:15 Pearl From My Mentor ♦****9:15 – 9:35 Refreshment Break and Visit Exhibitors****Session 12 - Cancer Workshop 1***Moderators: Nandita Guha-Thakurta, MD and Charles J. Schatz, MD, FACR*9:35 – 9:55 **Staging & Why We Do It**
*Patricia A. Hudgins, MD, FACR*9:55 – 10:15 **Nasopharyngeal Carcinoma**
*Nancy J. Fischbein, MD*10:15 – 10:35 **Oropharyngeal Carcinoma**
*Suresh K. Mukherji, MD, FACR, MBA*10:35 – 10:55 **Oral Cavity Carcinoma**
*Hilda E. Stambuk, MD*10:55 – 11:15 **Laryngeal & Hypopharyngeal Carcinoma**
*Amy Fan-Yee Juliano, MD*11:15 – 11:35 **An Approach to the Unknown Primary Carcinoma**
*Robert E. Morales, MD*11:35 – 11:55 **Perineural Tumor Spread**
*Ilona M. Schmalzuss, MD***11:55 – 12:00 PM Pearl From My Mentor ♦****12:00 – 1:00 Lunch On Your Own****Session 13 - Cancer Workshop 2***Moderators: Ali R. Sepahdari, MD and Peter Kalina, MD, MBA, FACR*1:00 – 1:20 **EBV & Post Transplant Lymphoproliferative Disorder**
*Laurie A. Loevner, MD*1:20 – 1:40 **Dual Energy CT**
*Reza Forghani, MD, PhD*1:40 – 2:00 **PET Tracers, Artifacts & Pitfalls**
*Elcin Zan, MD*2:00 – 2:20 **FDG PET/CT in Head & Neck Cancer**
*Tanya J. Rath, MD*2:20 – 2:40 **The Post Treatment Neck / NI-RADS**
*Ashley H. Aiken, MD*2:40 – 3:00 **Imaging of Head & Neck Reconstruction FLAPS**
*Amanda S. Corey, MD, FACR*3:00 – 3:20 **Complications of Head & Neck Cancer Treatment**
*Lawrence E. Ginsberg, MD***3:20 – 3:35 Refreshment Break****Saturday, October 5, 2019 (continued)****Session 14 - Core Curriculum/ Glands & Lymph Nodes***Moderators: Salmaan Ahmed, MD and Edward E. Kassel, DDS, MD, FACR*3:35 – 3:55 **Pediatric Salivary Disease & Neoplasia**
*Asha Sarma, MD*3:55 – 4:15 **Adult Salivary Disease & Neoplasia**
*Barry A. Shpizner, MD*4:15 – 4:35 **Incidental Thyroid Nodule & Thyroid Cancer**
*Yoshimi Anzai, MD, MPH*4:35 – 4:55 **Parathyroid Gland Imaging**
*C. Douglas Phillips, MD, FACR*4:55 – 5:15 **Nodal Nomenclature**
*Peter M. Som, MD, FACR, FRSM*5:15 – 5:35 **Approach to Pediatric Lymphadenopathy**
*Jennifer A. Vaughn, MD***5:35 End of Session****5:35 – 5:40 Awards Presentations: Scientific Abstracts and Case-of-the-Day Winners ♦****5:40 – 6:10 Annual Business Meeting (ASHNR Members Only) ♦**
7:00 Gala at Marshall's Outpost Pavilion**Sunday, October 6, 2019****7:00 – 7:45 AM Continental Breakfast for Registrants****Session 15 - SAM Session IV - Jaws****Moderators: Joel K. Cure, MD and Kristine M. Mosier, DMD, PhD*7:45 – 8:05 **Pediatric Jaw Lesions**
*Mai-Lan Ho, MD*8:05 – 8:25 **Odontogenic Jaw Lesions**
*Kristine M. Mosier, DMD, PhD*8:25 – 8:45 **Non-Odontogenic Jaw Lesions**
*Remy R. Lobo, MD*8:45 – 9:05 **Dental Nomenclature & Dental Implants Demystified**
*Dania F. Tamimi, BDS, DMSc*9:05 – 9:25 **TMJ Imaging for Head & Neck Radiologists**
*Bidyut K. Pramanik, MD***9:25 – 9:40 Refreshment Break****Session 16 - SAM Session V - Core Curriculum/Trauma****Moderators: Lindell R. Gentry, MD, FACR and Vikas Jain, MBBS*9:40 – 10:00 **Facial Fractures**
*Barton F. Branstetter, IV, MD, FACR*10:00 – 10:20 **3D Computer Generated Imagery Models and Trauma**
*Edward P. Quigley, III, MD, PhD*10:20 – 10:40 **Temporal Bone Trauma**
*Daniel W. Williams, III, MD*10:40 – 11:00 **Iatrogenic Trauma**
*Elliott Friedman, MD*11:00 – 11:20 **Vascular Complications of Trauma**
*Joshua E. Lantos, MD*11:20 – 11:30 **Closing Remarks**
*Caroline D. Robson, MBChB***11:30 End of Meeting**

Faculty & topics subject to change.

♦ Session not accredited for AMA PRA Category 1 Credit(s)[™] or Category A CE Credit(s)

* This SAM session will be submitted for approval and is subject to change.

Invited Faculty and Moderators

INVITED FACULTY / MODERATORS

Amit Agarwal, MD

UT Southwestern Medical Center

Mohit Agarwal, MD

Medical College of Wisconsin

Salmaan Ahmed, MD

UT MD Anderson Cancer Center

Ashley H. Aiken, MD

Emory University School of Medicine

Anthony M. Alleman, MD, MPH

University of Oklahoma Health Sciences
Center

Yoshimi Anzai, MD, MPH

University of Utah Health Care

Joseph M. Aulino, MD

Vanderbilt University Medical Center

Gregory D. Avey, MD

University of Wisconsin Medical School

Kristen Lloyd Baugnon, MD

Emory University School of Medicine

Alok A. Bhatt, MD

Mayo Clinic

Larissa T. Bilaniuk, MD, FACR

The Children's Hospital of Philadelphia

Susan I. Blaser, MD, FRCP(C)

The Hospital for Sick Children

Ari M. Blitz, MD

Johns Hopkins Hospital

Timothy N. Booth, MD

University of Texas Southwestern
Medical Center

**Barton F. Branstetter, IV, MD,
FACR**

University of Pittsburgh Medical Center

Justin Brucker, MD

University of Wisconsin
School of Medicine and Public Health

Philip R. Chapman, MD

University of Alabama Birmingham

Asim F. Choudhri, MD

University of Tennessee Health
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Amanda S. Corey, MD, FACR

Emory University

Rebecca S. Cornelius, MD, FACR

University of Cincinnati College of Medicine

Jesse Courtier, MD

University of California, San Francisco

Mary E. Cunnane, MD

Harvard Medical School

Joel K. Cure, MD

University of Alabama at Birmingham

Hugh D. Curtin, MD, FACR

Harvard Medical School

Roberta W. Dalley, MD

University of Washington Medical Center

David R. DeLone, MD

Mayo Clinic

William P. Dillon, MD

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Laura B. Eisenmenger, MD

University of Wisconsin, Madison

Nikdokht Farid, MD

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Nancy J. Fischbein, MD

Stanford University School of Medicine

Reza Forghani, MD, PhD

McGill University

Elliott Friedman, MD

University of Texas Health Science Center
at Houston

Lindell R. Gentry, MD, FACR

Retired - University of Wisconsin

Lawrence E. Ginsberg, MD

The University of Texas MD Anderson
Cancer Center

Christine M. Glastonbury, MBBS

University of California, San Francisco

John L. Go, MD, FACR

University of Southern California

Jeffrey P. Guenette, MD

Harvard Medical School

Nandita Guha-Thakurta, MD

University of Texas MD Anderson
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Mari Hagiwara, MD

New York University Langone
Medical Center

Bronwyn E. Hamilton, MD

Oregon Health & Science University

Anton N. Hasso, MD, FACR

University of California, Irvine Medical Center

Mai-Lan Ho, MD

Nationwide Children's Hospital

Joseph M. Hoxworth, MD

Mayo Clinic

Benjamin Y. Huang, MD, MPH

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Patricia A. Hudgins, MD, FACR

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Vikas Jain, MBBS

Case Western Reserve University

Amy Fan-Yee Juliano, MD

Harvard Medical School

Peter Kalina, MD, MBA, FACR

Mayo Clinic

Edward E. Kassel, DDS, MD, FACR

University of Toronto

Hillary R. Kelly, MD

Harvard Medical School

Tabassum A. Kennedy, MD

The University of Wisconsin Madison

Rihan Khan, MD

Dartmouth Hitchcock

Claudia F.E. Kirsch, MD

Zucker Hofstra School of Medicine
at Northwell

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New York Presbyterian Hospital

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Kristine M. Mosier, DMD, PhD

Indiana University School of Medicine

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Tanya J. Rath, MD

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Osamu Sakai, MD, PhD

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Karen L. Salzman, MD

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Asha Sarma, MD

Vanderbilt University

Charles J. Schatz, MD, FACR

Beverly Tower Wilshire Advanced Imaging

Ilona M. Schmalfuss, MD

University of Florida School of Medicine

Ali R. Sepahdari, MD

Scripps Clinic Medical Group

Deborah R. Shatzkes, MD

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Karuna V. Shekdar, MD

The Children's Hospital of Philadelphia

Keivan Shifteh, MD, FACR

Montefiore Medical Center

Barry A. Shpizner, MD

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Medicine at Hofstra/Northwell

Wendy R.K. Smoker, MS, MD, FACR

The University of Iowa Hospitals and Clinics

Peter M. Som, MD, FACR, FRSM

Ichan School of Medicine at Mount Sinai

Ashok Srinivasan, MD

University of Michigan

Hilda E. Stambuk, MD

Weill Cornell Medical College

Joel D. Swartz, MD

Germantown Imaging Associates

Dania F. Tamimi, BDS, DMSc

Private Practice

Courtney M. Tomblinson, MD

Vanderbilt University Medical Center

Karen A. Tong, MD

Loma Linda University Medical Center

Carlos H. Torres, MD, FRCP(C)

University of Ottawa

Jennifer A. Vaughn, MD

Phoenix Childrens Hospital

**Richard H. Wiggins, III, MD, CIIP,
FSIIM**

University of Utah Health Sciences Center

Daniel W. Williams, III, MD

Wake Forest School of Medicine

Blair A. Winegar, MD

University of Arizona Health Sciences

Cynthia Wu, MD

Emory University School of Medicine

Eugene Yu, MD, FRCP(C)

Princess Margaret Cancer Centre
University of Toronto

Elcin Zan, MD

NYU Langone Health

CASE-OF-THE-DAY PRESENTERS:

Jay Acharya, MD

Paul M. Bunch, MD

Camilo Jaimes Cobos, MD

Laura B. Eisenmenger, MD

Jacqueline C. Junn, MD

Eric Liao, MD

Jennifer Sommerville, MBBS

Anouk Van der Hoorne, MD

Vivek Yedavalli, MD

2018 WILLIAM N. HANAFEE, MD RESEARCH GRANT AWARD RECIPIENT:

Mai-Lan Ho, MD

Registration Information

53rd Annual Meeting

American Society of Head & Neck Radiology

ASHNR19

A late fee of \$75 will be added to any registration postmarked after **August 23, 2019**.

- ASHNR Member** \$625.00 **Other** Technologist Physician Assistant Military Retired \$400.00
- Non-ASHNR Member** \$825.00 **Retired ASHNR Member** Free
- Members-in-Training** Resident Fellow Medical Student \$350.00 **International Attendees** (outside of North America) 50% discount on meeting registration rates listed above.

Mentoring Breakfast

Friday, October 4, 2019 • 6:45 – 7:45 AM

Members-in-Training, instructors, and assistant professors are invited to attend a "Mentoring Breakfast" on Friday, October 4. Participation in this non-CME session will provide the opportunity to engage in rapid-fire round table discussions with leaders in the field on a variety of topics relevant to your early career, and to gain valuable insights from and develop relationships with our outstanding mentors.

SEATING IS LIMITED, REGISTRATION IS REQUIRED. Additional information will be provided to those registered.

Free

Yes, I plan to attend the Opening Reception • **Wednesday, October 2, 2019**

Yes, I plan to attend the Gold Medal Award Luncheon • **Friday, October 4, 2019**
(You must RSVP to attend, seating is limited.)
(Free for ASHNR members; \$35 for Non-Members)
 Vegetarian Option

Yes, I plan to attend the Gala at Marshall's Outpost Pavilion • **Saturday, October 5, 2019**
(Free for attendees; guests additional)
 Guest/Spouse Gala Fee \$70.00
Guest Name _____

TOTAL ENCLOSED: \$ _____

4 Easy Ways To Register

We Accept



INTERNET
www.ASHNR.org

MAIL

Check payable to:
ASHNR

c/o Educational Symposia
5620 West Sligh Avenue
Tampa, Florida
33634-4490

FAX

(813) 806-1001

PHONE

(813) 806-1000

Name _____ Degree M.D. D.O. DDS DMD Ph.D. Other

Company / Institution _____ Specialty: Neuroradiology Otolaryngology Radiation Oncology Maxillofacial Radiology Dentistry Other

Address _____ City / State / Zip Code / Country

Phone _____ Email **(Required for Electronic Syllabus)**

Card Number / Card Type: Master Card Visa American Express Discover _____ Expiration Date _____ Security Code _____

Billing Address _____ City / State / Zip Code / Country

Cardholder Signature _____

Cancellations: Requests for refund of registration fees, less a \$75.00 administrative fee, will be made to those providing written notification of cancellation by August 23, 2019. After this date, there will be no refunds given for cancellations. Please email notice of cancellation to: cancel@edusymp.com or fax to 813-806-1001.

The Westin Kierland Resort & Spa

ABOUT THE RESORT

The AAA Four Diamond Resort features accommodations that will soothe and stimulate from a full-service spa and world-class golf to award-winning dining and upscale shopping.

A retreat designed to rejuvenate the mind, body and spirit, Agave, The Arizona Spa offers treatments inspired by traditional practices handed down through many of Arizona's native cultures.

Cuisine takes center stage at The Westin Kierland Resort & Spa. The Resort's talented chefs reveal their culinary creativity and vision to offer mouthwatering menus and a tantalizing dining experience in ten unique dining options.

With the spacious guest rooms, the world-renowned Heavenly Bed and White Tea by Westin amenities, you are invited to relax and rejuvenate.

HOW TO GET THERE

Fly directly to Phoenix Sky Harbor International Airport, located just 25 minutes from The Westin Kierland Resort & Spa. Daily non-stop flights are available within the U.S. and Canada.



SPACE IS LIMITED - RESERVE TODAY: Call Hotel Reservations at (480) 624-1000 or Central Reservations at (800) 354-5892 and reference "**ASHNR Annual meeting 2019**" to receive the group discount or book online at: www.marriott.com/event-reservations/reservation-link.mi?id=1543349258577&key=GRP&app=resvlink

Group Room Rates Start At.... \$295.00/nt. (Single/Double Occupancy)

Additional person (triple/quad rooms for individuals over 18 years of age: \$50 per person.

HOTEL TAX AND FEES: 12.57%

RESORT FEE: \$29 plus 12.57% tax per room, per day (Optional) - Available at check-in if interested.

Complimentary wireless internet access is available in guestrooms and main lobby area for attendees.

HOTEL CUT-OFF DATE: SEPTEMBER 3, 2019 - Subject to availability, group rates may be available three (3) days before and three (3) days after the conference.

DEPOSIT POLICY: A deposit equal to first night's stay is required to hold each guest's reservation.

CANCELLATION POLICY: All cancellations, arrival and departure date changes must be made 7 days or more prior to scheduled arrival date/time and receive a cancellation number to avoid penalties. Check in time is: 4:00 pm; check out time is: 11:00 am.

HOTEL: 6902 E. Greenway Parkway **PHONE:** (480) 624-1000
Scottsdale, AZ 85254