

53rd Annual Meeting | American Society of

Head & Neck Radiology

Head and Neck Imaging in the Valley of the Sun

October 2 - 6, 2019

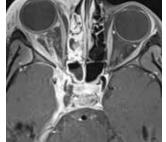
The Westin Kierland Resort & Spa Scottsdale, Arizona

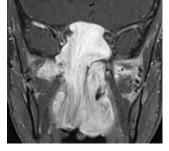
28.75 AMA PRA Category 1 Credit(s)™
8.75 hours will be submitted for SAM qualification.













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.

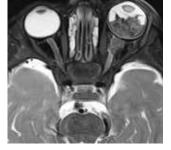
Educational Symposia designates this live activity for a maximum of 28.75 AMA PRA Category 1 Credit(s)TM, including 1.5 AMA PRA Category 1 Credit(s)TM for the Early Bird Session. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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.

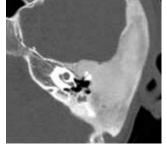
Technologists: This program has been submitted to the ASRT. The number of Category A CE credits will be available approximately 30 days prior to the meeting. Please visit ashnr.edusymp.com or call (813) 806-1000 regarding the availability of Category A CE credit.

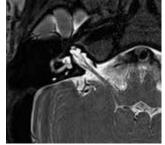
Target Audience

- 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.

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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, Octol	per 2, 2019	Thursday, Octobe	r 3, 2019 (continued)
9:00 AM Registration Opens		Session 5 - Crani	ial Nerves: Anatomy & Abnormalities
Early Bird Sessio Difficult Diagnose	n: Errors are Opportunities: Mistakes, Misses and es	Moderators: Gregory 10:15 – 10:35	D. Avey, MD and Christine M. Glastonbury, MBBS, MD Cranial Nerves III, IV, VI
10:30 – 12:00 PM	Philip R. Chapman, MD, Nancy J. Fischbein, MD and	10:35 – 10:55	Ari M. Blitz, MD Cranial Nerve V Christine M. Glastonbury, MBBS, MD
	Caroline D. Robson, MBChB Please email your cases ahead of time to the panelists at: caroline.robson@childrens.harvard.edu	10:55 – 11:15	Cranial Nerve VII Courtney M. Tomblinson, MD
12:00 – 12:55	Lunch On Your Own	11:15 – 11:35	Cranial Nerve VIII
12:55 – 1:00	Opening Remarks Caroline D. Robson, MBChB	11:35 – 11:55	John L. Go, MD, FACR Cranial Nerves IX - XI
	Curriculum/Orbits : Bilaniuk, MD, FACR and Mary E. Cunnane, MD	11:55 – 12:10 PM	Bruno A. Policeni, MD, MBA Cranial Nerve XII Cynthia Wu, MD
1:00 – 1:15	Ocular Anatomy & Developmental Lesions of the Globe Rupa Radhakrishnan, MD, MBBS, MS	12:10 – 12:15	Pearl From My Mentor ♦
1:15 – 1:35	Visual Field Defects	12:15 – 1:15	Lunch On Your Own
1:35 – 1:55	Asim F. Choudhri, MD Orbital Inflammation		ial, Cervical & Mediastinal Nerves M. Aulino, MD and Burçe Ozgen Mocan, MD
1:55 – 2:15	Mary E. Cunnane, MD Orbital Tumors: Rad-Path Correlation	1:15 – 1:30	Denervation Atrophy Wendy R.K. Smoker, MS, MD, FACR
2:15 – 2:30	Nikdokht Farid, MD Endoscopic Endonasal Surgery for Orbital Tumors:	1:30 – 1:50	Brachial Plexus MRI Carlos H. Torres, MD, FRCPC
	What the Surgeon Wants to Know Katherine L. Reinshagen, MD	1:50 – 2:10	Horner Syndrome Deborah L. Reede. MD
	Curriculum/Sinuses m A. Kennedy, MD and Vijay M. Rao, MD, FACR	2:10 – 3:10	Scientific Paper Session I ♦ Moderators: Laura B. Eisenmenger, MD and Osamu Sakai, MD, PhD
2:30 – 2:50	Sinonasal Anatomy Tabassum A. Kennedy, MD	3:10 – 3:30	Refreshment Break and Visit Exhibitors
2:50 – 3:10	Complications of Acute Sinusitis Joseph M. Hoxworth, MD		cial Intelligence & Error Prevention garwal, MD and Ashok Srinivasan, MD
3:10 – 3:25	Fungal Disease Eugene Yu, MD, FRCPC	3:30 – 3:50	Fallor Ergo Sum: Misadventures in Head & Neck Imaging Richard H. Wiggins, III, MD, CIIP, FSIIM
3:25 – 3:40	Chronic Sinonasal Disease Keivan Shifteh, MD, FACR	3:50 – 4:10	Missed Cases Philip R. Chapman, MD
3:40 – 4:10	Refreshment Break and Visit Exhibitors	4:10 – 4:30	Machine Learning: Random Forest, Random Tree Ashok Srinivasan, MD
Session 3 - Core Moderators: Amit Aga	Curriculum/Sinuses & Anterior Skull Base arwal, MD and William P. Dillon, MD	4:30 – 4:50	Deep Learning & Advanced Imaging of Skull Base Tumors Atul K. Mallik, MD
4:10 – 4:30	Anterior & Central Skull Base Anatomy: What the Surgeon Wants to Know Jeffrey P. Guenette, MD	4:50 – 5:05	Augmented Reality: Educational & Clinical Applications in Skull Base Imaging Jesse Courtier, MD
4:30 – 4:50	Developmental Anomalies & Variants: Anterior & Central Skull Base		ASHNR Game Show
4:50 – 5:10	Susan I. Blaser, MD, FRCP(C) CSF Leaks & Idiopathic Intracranial Hypertension	5:05 – 6:00	Hosts: Lawrence E. Ginsberg, MD, C. Douglas Phillips, MD, FACR and Richard H. Wiggins, III, MD, CIIP, FSIIM
5:10 – 5:30	Kristen Lloyd Baugnon, MD Skull Base Inflammatory Disease	6:00	End of Session
	Claudia F.E. Kirsch, MD	Friday, October 4	
5:30 – 5:50	Anterior Skull Base & Sinonasal Tumors David R. DeLone, MD	7:00 – 7:45 AM	Continental Breakfast for Registrants
5:50 – 6:10	Central Skull Base Tumors Karen L. Salzman, MD	Moderators: Roberta	Session II - Core Curriculum / Head & Neck Spaces* W. Dalley, MD and Jennifer L. McCarty, MD
6:10	End of Session	7:45 – 8:00	Retropharyngeal & Danger Space Mari Hagiwara, MD
6:30	Opening Reception	8:00 – 8:15	Carotid & Parapharyngeal Spaces Rebecca S. Comelius, MD, FACR
Thursday, October	•	8:15 – 8:30	Masticator Space Daniel E. Meltzer, MD
7:00 – 7:30 AM	Breakfast & Learn Sponsored by Guerbet, LLC	8:30 – 8:50	Oral Cavity Kristine M. Mosier, DMD, PhD
	Session I - Temporal Bone & Posterior Skull Base* wartz, MD and Sugoto Mukherjee, MD	8:50 – 9:10	Larynx & Hypopharynx Bronwyn E. Hamilton, MD
7:45 – 8:05	Temporal Bone Anatomy	9:10 – 9:30	Refreshment Break and Visit Exhibitors
8:05 – 8:35	Benjamin Y. Huang, MD, MPH 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		
0.15 0.35	Tomporal Bono & Postorior Skull Base Tumore		

Temporal Bone & Posterior Skull Base Tumors $\it John$ I. Lane, $\it MD$

Refreshment Break and Visit Exhibitors

Post Operative Temporal Bone Gul Moonis, MBBS

9:15 - 9:35

9:35 – 9:55 **9:55 – 10:15**

Friday, October 4,	2019 (continued)
Session 10 - Head Moderators: Alok A. B	d & Neck Top 5: Non-Traumatic Emergencies hatt, 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, Kim O. Learned, MD 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	
Vascular Anomali Moderators: Anton N.	es, Developmental & Neoplastic Lesions* 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 - Cano	cer Workshop 1 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 Laryngeal & Hypopharyngeal Carcinoma Amy Fan-Yee Juliano, MD 10:55 - 11:15

11:15 - 11:35 An Approach to the Unknown Primary Carcinoma Robert E. Morales, MD

Perineural Tumor Spread 11:35 - 11:55 llona M. Schmalfuss, MD 11:55 - 12:00 PM Pearl From My Mentor ◆

12:00 - 1:00 **Lunch On Your Own**

Session 13 - Can Moderators: Ali R. Se	cer Workshop 2 oahdari, 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
	VI Session IV - Jaws* . Chapman, 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
	V Session V - Core Curriculum/Trauma* 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	latrogenic Trauma

Vascular Complications of Trauma

11:00 - 11:20

Elliott Friedman, MD

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

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

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Alok A. Bhatt, MD

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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,

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 Science Center

Amanda S. Corey, MD, FACR

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Jesse Courtier, MD

University of California, San Francisco

Mary E. Cunnane, MD

Harvard Medical School

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

University of California, San Francisco

Laura B. Eisenmenger, MD

University of Wisconsin, Madison

Nikdokht Farid, MD

University of California, San Diego

Nancy J. Fischbein, MD Stanford University School of Medicine Reza Forghani, MD, PhD

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

Cancer Center

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

Benjamin Y. Huang, MD, MPH

University of North Carolina

Patricia A. Hudgins, MD, FACR

Emory University School of Medicine

Vikas Jain, MBBS

Case Western Reserve University

Amy Fan-Yee Juliano, MD

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Peter Kalina, MD, MBA, FACR Mayo Clinic

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Hillary R. Kelly, MD

Harvard Medical School

Tabassum A. Kennedy, MD

The University of Wisconsin Madison

Claudia F.E. Kirsch, MD

Zucker Hofstra School of Medicine at Northwell

Bernadette L. Koch, MD

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Nicholas A. Koontz, MD

Indiana University School of Medicine

John I. Lane, MD

Joshua E. Lantos, MD

Weill Cornell Medical College New York Presbyterian Hospital

Kim O. Learned, MD

MD Anderson Cancer Center

Luke N. Ledbetter, MD University of Kansas

Remy R. Lobo, MD

University of Michigan

Laurie A. Loevner, MD University of Pennsylvania Health System Atul K. Mallik, MD

Loyola University Medical Center

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Jennifer L. McCarty, MD

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Kristine M. Mosier, DMD, PhD Indiana University School of Medicine

Sugoto Mukherjee, MD

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Weill Cornell Medical College NewYork-Presbyterian Hospital

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Bidyut K. Pramanik, MD Donald and Barbara Zucker School of Medicine at Hofstra/Northwell

Edward P. Quigley, III, MD, PhD University of Utah

Rupa Radhakrishnan, MD, MBBS, MS

Indiana University School of Medicine

Vijay M. Rao, MD, FACR Jefferson Health

Tanya J. Rath, MD Mayo Clinic

Deborah L. Reede, MD SUNY Downstate Medical Center

Katherine L. Reinshagen, MD Harvard Medical School

Caroline D. Robson, MBChB Boston Children's Hospita

Osamu Sakai, MD, PhD Boston University Medical Center

Karen L. Salzman, MD University of Utah School of Medicine

Asha Sarma, MD

Charles J. Schatz, MD, FACR Beverly Tower Wilshire Advanced Imaging

Ilona M. Schmalfuss, MD University of Florida School of Medicine

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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

Donald and Barbara Zucker School of 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

Private Practice

Joel D. Swartz, MD Germantown Imaging Associates

Dania F. Tamimi, BDS, DMSc

Courtney M. Tomblinson, MD

Vanderbilt University Medical Center

Karen A. Tong, MD

Loma Linda University Medical Center Carlos H. Torres, MD, FRCPC

Jennifer A. Vaughn, MD

University of Ottawa

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, FRCPC

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

Jennifer Gillespie, MBBS

Jacqueline C. Junn, MD

Eric Liao, MD 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	d after Augus	st 23, 2019.			
ASHNR Member	□ \$625. ⁰⁰	Other - Techno	ologist 🚨 Physician Assistant	☐ Military ☐ Retired	□ \$400
Non-ASHNR Member	□ \$825.00	Retired ASHNR	Member		☐ Free
Members-in-Training □ Resident □ Fellow □ Medical Student		International Attendees (outside of North America) 50% discount on meeting registration rates listed above.			
Mentoring Breakfast		☐ Yes, I plan to a	☐ Yes, I plan to attend the Opening Reception • Wednesday, Octo		
Friday, October 4, 2019 • 6:45 – 7:45 AM Members-in-Training, instructors, and assistant professors are invited to attend Breakfast" on Friday, October 4. Participation in this non-CME session was opportunity to engage in rapid-fire round table discussions with leaders in variety of topics relevant to your early career, and to gain valuable insights from relationships with our outstanding mentors.	vill provide the the field on a	☐ 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			
SEATING IS LIMITED, REGISTRATION IS REQUIRED. Additional inform	mation will be	(Free for attend	attend the Gala at Marshall's O lees; guests additional)	utpost Pavillon • Saturda	
provided to those registered.		☐ Guest/Spouse Gala Fee Guest Name			□ \$70
		duest Name _			
			TOTAL ENCLOSED	:\$	
SECURE CHECKOUT	ERNET 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: Neuroradiolo	ogy 🗖 Otolaryr	ngology 🗖 Radiation	☐ Oncology ☐ Maxillofacia	al Radiology 🚨 Dentistr	ry 🗖 Other
Address			City / State / Zip Code / Cou	untry	
Phone			Email (Required for Electro	onic Syllabus)	
Card Number / Card Type: ☐ Master Card ☐ Visa ☐ American Express ☐	I Discover		Expiration Date	Security Code)
illing Address			City / State / Zip Code / Country		
Cardholder Signature					
Cancellations: Requests for refund of registration fees, less a \$75.00 administ	rative fee, will h	e made to those prov	viding written notification of car	ncellation by August 23.	2019. After this
there will be no refunds given for cancellations. Please email notice of cancellations					

The Westin Kierland Resort & Spa

ABOUT THE RESORT

The AAA Four Diamond Resort features accommodations that will sooth 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

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.





800) 354-5892 and reference "ASHNR Annual meeting 2019" to receive the group discount or book online at:

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

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