ASNR 55th Annual Meeting & The Foundation of the ASNR Symposium 2017

April 22-27, 2017
Long Beach, California

Long Beach Convention & Entertainment Center

Meeting Guide

#asnr17
**Long Beach Convention & Entertainment Center**
2. House phones are located near restroom lounges.
3. From a cell phone dial 562-499-7515.

**Hyatt Regency Long Beach**
1. Use the nearest house phone (black) dial 55 to advise the operator of the emergency.
2. From our guest rooms dial 0 for assistance.
3. From a cell phone, dial 562-491-1234.
4. If the matter is NOT an emergency, dial “6131” from any hotel phone to speak to the Security Personnel and report the matter accordingly.

**Westin Long Beach Hotel**

**Guest Rooms**
1. Dial 911 from Guestroom phone.
2. In-House Security will be notified 911 has been dispatched.
3. Security will arrive and assist until paramedics arrive.

**Public Space**
1. Pick-up any house phone (black) and you will be automatically connect with Hotel Operator.
2. From your cell phone dial 562-436-3000.
3. Operator will assist in dialing 911 for you.

The caller should provide the following:
1. Determine name of specific meeting room location where the situation has occurred.
2. Identify yourself, reference your exact location and provide details on the nature of the emergency situation.
3. Provide a brief but concise description of the problem, be prepared to answer any questions that the operator may ask you, and remain on the line.

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**Long Beach Convention & Entertainment Center**
You may access complimentary WiFi service in the ASNR meeting areas using the following instructions at the Long Beach Convention & Entertainment Center.

When using your wireless management software, find the Wireless Network **ASNR** and enter the password **asnr2017**

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**Long Beach Convention & Entertainment Center**
300 East Ocean Boulevard
Long Beach, CA 90802
Monday – Wednesday: 8:00am – 5:00pm
562-436-3636
After Hours - 562-499-7515

**ASNR Registration Desk**
(Promenade Lobby)
562-628-8201

**Parking Garage at the Long Beach & Entertainment Center**
100 South Pine Ave
Long Beach, CA 90802

**Headquarters Hotel Information**
**Hyatt Regency Long Beach**
200 South Pine Avenue
Long Beach, CA 90802
562-491-1234

**Overflow Hotel Information**
**Westin Long Beach Hotel**
333 East Ocean Boulevard
Long Beach, CA 90802
562-436-3000

**Local Hospital**
**St. Mary Medical Center**
Long Beach
1050 Linden Avenue
Long Beach, CA 90813
866-431-3009
(1.5 miles from Center)

**Local Pharmacy**
**CVS Pharmacy**
596 Long Beach Blvd
Long Beach, CA 90802
562-432-3530
(.8 miles from Center)

**Walgreens**
600 Long Beach Boulevard
Long Beach, CA 90802
562–279–1027
(1 mile from Center)

**Pharmacy Hours**
Monday to Sunday: 8am – 9pm

**Store Hours**
Monday to Sunday: 24 hours
As a registrant of the ASNR 55th Annual Meeting and The Foundation of the ASNR Symposium 2017, ASNR reserves the right to use photos taken for promotional materials for future meetings.
Message from the Co-Chairs

On behalf of the Board of Trustees, it is a pleasure to report The Foundation of the American Society of Neuroradiology again experienced substantial financial and programmatic growth in fiscal year 2016. Due to the generosity of our donors, the Foundation continues to support and develop new opportunities for cutting edge research endeavors. Your contributions are critical in demonstrating the value of neuroimaging through our research and education.

As neuroradiologists and members of ASNR, we play a vital role in promoting the highest standards for training and practice, fostering research in our field, and ensuring the future of our specialty. Research is central to the future of our field; fostering new ideas for clinical practice and enhancing patient care.

Your continued support and donations have allowed the Foundation to grant over $4.3 million to fund over 100 members in our society as research investigators. The return on your investment is huge as the research from our neuroradiology investigators is becoming critical in this healthcare environment. The society will award a number of grants totaling $1.3 million this coming year, including the newly funded Boerger Research Fund for Alzheimer’s Disease and Neurocognitive Disorders, to conduct neuroimaging research thus continuing to show the value of this important specialty in the industry and to our patients.

Increased Foundation support by our membership sends the clear message that your commitment to preserving the integrity of our specialty and patient care is of utmost importance. We are honored to serve as the Co-Chairs of The Foundation of the ASNR, working collaboratively with a dedicated group of neuroradiologists whose vision and commitment allows us to fulfill our mission. Thank you for your confidence in the work of the Foundation and for being a part of our success.

Please stop by the Donor Lounge in room VIP A (Main Level) to learn more about The Foundation of the ASNR, pick up your donor ribbon, and make a contribution if you have not previously had the opportunity. The Donor Lounge is open Saturday, April 22 – Wednesday, April 26, from 9:00am – 4:00pm and Thursday, April 27, from 9:00am – 3:00pm.

Trusting that our continued efforts will create a greater value for all of neuroradiology,

Laurie A. Loevner, MD
Co-Chair, The Foundation of the ASNR

Pina C. Sanelli, MD, MPH, FACR
Co-Chair, The Foundation of the ASNR
Welcome to Long Beach! We are proud to be the host city for the 2017 Foundation of the ASNR Symposium, and we congratulate you as you celebrate the 55th ASNR Annual Meeting.

We appreciate the vital role your organization and its members perform to ensure the health and well-being of our nation. While attending your conference in our city, you will have invaluable opportunities to network with your peers, exchange ideas and learn new techniques in Neuroradiology.

Please take some time to enjoy all that Long Beach has to offer. Our city is pedestrian and bicycle friendly. Within an 8-block area around our downtown waterfront convention center, you will find attractions, shopping, entertainment and more than 125 quality restaurants serving cuisines from around the globe. Well-lit walkways and pedestrian promenades provide stunning oceanfront vistas where you can enjoy the vibrant blending of big-city amenities alongside the relaxed atmosphere of a seaside community.

Be sure to visit our signature attractions: the Queen Mary, Aquarium of the Pacific, Shoreline Village, The Pike Outlets at Rainbow Harbor, and the Museum of Latin American Art. Long Beach is one of California's most diverse cities, with dozens of distinctive neighborhoods, each with its own attractions. You will discover Belmont Shore's Second Street, Alamitos Bay, the East Village Arts District, Fourth Street's “Retro Row,” fine museums, and two Spanish-era Ranchos.

We are pleased to host the 2017 Foundation of the ASNR Symposium and the 55th Annual Meeting of the American Society of Neuroradiology in our city, and we thank you for all the great work you do. We wish you all a successful and productive meeting and hope you enjoy your stay in Long Beach.

Sincerely,

Mayor Robert Garcia
City of Long Beach

562.570.6801 | mayor@longbeach.gov | @LBMayorsOffice
333 West Ocean Blvd., Long Beach, California 90802

#asnr17
https://www.pathlms.com/asnr

This link will be the portal for:

- Program Planner
- The Foundation of the ASNR Symposium 2017 Scientific Power Point Presentations
- Electronic Scientific Posters
- Electronic Educational Exhibits
- ASNR 2017 CME/SAM Evaluation Link
- Disclosures

**CHARGING STATION LOCATIONS:**

During the meeting you have the opportunity to charge your cell phone, laptop or other mobile devices at one of the Charging Stations listed below:

**Saturday, April 22 – Thursday, April 27**

Grand Ballroom Foyer (Upper Level)

**Saturday, April 22 – Sunday, April 23 & Thursday, April 27**

Speaker Ready Room – 204 (Upper Level)

**Monday, April 24 – Wednesday, April 26**

Technical Exhibits Hall – Hall A (Lower Level)

Join the meeting conversation on Twitter via #asnr17

Follow us @TheASNR

www.facebook.com/TheASNR
1. Go to http://guidebook.com/g/asnr17 or scan this QR code to download the Guidebook App:

2. Once installed, launch the Guidebook app and search for ASNR in the “Find a Guide” box. Select the ASNR 55th Annual Meeting Guide and click “Download.”
Online Sessions from ASNR 55th Annual Meeting...

... know someone not attending the ASNR 55th Annual Meeting? We will miss them in Long Beach, CA, but they can participate in live ASNR sessions from their home/office!

ASNR SelectStream is offering four one-hour SAM sessions streamed live online, Monday through Thursday, April 24-27 at 8 am Pacific (10 am Central; 11 am Eastern).

- Individual sessions may be purchased for $20 each via the ASNR eCME website at www.asnr.org/selectstream17
- At scheduled session time, log into the eCME site, view live session and answer the self-assessment questions for immediate CME credit.

The session content spans main neuroradiology specialty areas:

**Pediatrics Self-Assessment Module (SAM) Session**  
**Monday, Apr. 24, 8:05 – 9:05 AM (PDT) • 1.0 hour**  
- Recognizing Malformation of Cortical Development, Julie Hurteau-Miller, MD  
- Phakomatoses from Molecules to Morphology, Mai-Lan Ho, MD

**Head and Neck Self-Assessment Module (SAM) Session**  
**Tuesday, Apr. 25, 8:00 – 9:00 AM (PDT) • 1.0 hour**  
- Orbital Imaging: The ED Essentials, John P. Karis, MD  
- Temporal Bone: Looking Through the Third Window, Ashok Srinivasan, MD

**Vascular Self-Assessment Module (SAM) Session**  
**Wednesday, Apr. 26, 8:00 – 9:00 AM (PDT) • 1.0 hour**  
- Neurovascular Topics In The Endovascular Arena, Maksim Shapiro, MD

**Spine Self-Assessment Module (SAM) Session**  
**Thursday, Apr. 27, 8:00 – 9:00 AM (PDT) • 1.0 hour**  
- Post Operative Spine, Jeffrey S. Ross, MD  
- Optimized Imaging of the Postoperative Spine: Artifact Reduction on CT and MR, Lawrence N. Tanenbaum, MD, FACR
Name Badges
Please wear name badges at all times while you are attending the scientific sessions, social programs and technical exhibits. Badge holder colors are identified as follows:

- ASNR Members, ASNR Members-In-Training, Young Professionals, Research Scientists, International Outreach & members of the following Specialty Societies (ASFNR, ASHNR, ASPNR, ASSR & SNIS) ............................................. Blue
- Non-Member and Other Professionals ............................................ Green
- Exhibitors .......................................................... Orange
- Guests ...................................................... Tan
- Staff .......................................................... Purple

CME Pavilion/SAM Response Area
203C (Upper Level)
CME Pavilion computer terminals will be available to registered attendees that can be used to evaluate attended sessions, print CME certificates and to check email.

Saturday, April 22 .......... 10:00am – 6:30pm
Sunday, April 23 ............. 6:30am – 6:30pm
Monday, April 24 –
   Wednesday, April 26... 6:30am – 7:00pm
Thursday, April 27 .......... 6:30am – 4:00pm

Meetings & Announcements Board
Promenade Lobby (Main Level)
Please refer to the daily postings on the Meetings & Announcements Board for information on committee meetings.

Committee/Specialty Society
Meetings
Promenade Lobby (Main Level)
Please refer to the daily postings on the Meetings & Announcements Boards.

The International Hydrocephalus
Imaging Working Group (IHIWG)
CSF Flow Group
201A (Upper Level)
See page 22 for details on programming
Thursday, April 27 .......... 1:00pm – 5:30pm
Friday, April 28 ............... 8:00am – 3:30pm

Donor Lounge
VIP A (Main Level)
Current and Future Donors: Please stop by the Donor Lounge to pick up your ribbons and learn more about The Foundation of the ASNR.
Hours of Operation:
   Saturday, April 22 –
       Wednesday, April 26 .. 9:00am - 4:00pm
   Thursday, April 27 .......... 9:00am - 3:00pm

Luggage/Coat Check
Promenade Lobby (Main Level)
Hours of Operation:
   Saturday, April 22 .......... 9:00am – 6:30pm
   Sunday, April 23 ............. 6:30am – 6:30pm
   Monday, April 24 –
       Wednesday, April 26 .. 6:30am – 7:00pm
       Thursday, April 27 .......... 6:30am – 4:00pm

World Federation of Neuroradiology
(WFNRS) Symposium
Neuroradiologicum (SNR) XXI
March 19 – 24, 2018, Taipei, Taiwan
International Convention Center

WiFi
Network: ASNR
Password: asnr2017
American Board of Radiology (ABR) Info Desk
Promenade Lobby (Main Level)

American College of Radiology (ACR) Info Desk
Promenade Lobby (Main Level)

American Medical Association (AMA) Info Desk
Promenade Lobby (Main Level)

AJNR Booth
Promenade Lobby (Main Level)

ASNR & The Foundation of the ASNR Booth
Promenade Lobby (Main Level)

ASNR 2018 — Vancouver, Canada Info Desk
Promenade Lobby (Main Level)

Audience Response (AR) Help Desk
Grand Ballroom Foyer (Upper Level)

Case of the Day
Hall B (Lower Level)

Charging Stations
Saturday, April 22 – Thursday, April 27
Grand Ballroom Foyer (Upper Level)
Saturday, April 22 – Sunday, April 23 & Thursday, April 27
Speaker Ready Room – 204 (Upper Level)
Monday, April 24 – Wednesday, April 26
Technical Exhibit Hall – Hall A (Lower Level)

CME Pavilion/SAM Response Area
203C (Upper Level)

Donor Lounge
VIP A (Main Level)

Headquarters Office
201B (Upper Level)

Lost and Found
Registration — Promenade Lobby (Main Level)

Luggage/Cloak Check (Complimentary)
Promenade Lobby (Main Level)

Printed Scientific Posters, Electronic Scientific Posters, Educational Exhibit Posters, Electronic Educational Exhibits
Hall B (Lower Level)

Registration
Promenade Lobby (Main Level)

Speaker Ready Room
204 (Upper Level)

Special Session/How-To Sessions
Grand Ballroom (Upper Level)

Technical Exhibits
Hall A (Lower Level)

Turbo Talks
Turbo Presentations
102BC (Main Level)
Electronic Display Presentations
Promenade Lobby (Main Level)

Young Professionals Lounge
(Fellows, Residents, Young Professionals and Medical Students)
VIP B (Main Level)

Long Beach Convention & Entertainment Center is the official location for all educational programming and exhibits.
Food Service Information

ASNR offers food service for registrants at concession stands from Saturday through Thursday based on program schedules.

Enhanced menu options in the Technical Exhibit, Hall A (Lower Level)! Be sure to visit Hall A between 10:00am – 5:00pm from Monday – Wednesday to network and share experiences with over 150 company representatives from our variety of trade show booths.

Concession Stand Voucher Values:
- Breakfast / Food – $5.50  Beverage – $5.00
- Lunch / Food – $15.00  Beverage – $5.00

Breakfast Concession Stands
Sunday, April 23 – Wednesday, April 26, Pacific Café, Breakfast Bar, Promenade Starbucks, Grand Ballroom Foyer ................ ......................... 6:00am – 8:30am
Thursday, April 27, Pacific Café, Grand Ballroom Foyer .......................... 6:00am – 8:30am

Continuous Coffee Service (during Technical Exhibition)
Monday, April 24 – Wednesday, April 26, Hall A .......................................................... 10:00am – 5:00pm

Morning Beverage Breaks
Sunday, April 23, 104 Foyer ................................................................................. 10:00am – 10:30am
Monday, April 24 – Wednesday, April 26, Hall A ..................................................... 10:30am – 11:00am
Thursday, April 27, 104 Foyer ................................................................................. 10:30am – 11:00am

Lunch Concession Stands
Saturday, April 22 – Sunday April 23
Pacific Café 1, Pacific Café 2*, Pacific Café 3*, Pacific Café 4, Promenade Starbucks, Grand Ballroom Foyer .......................................................... 10:30am – 1:30pm

Monday, April 24 – Wednesday, April 26
Hall A*, Pacific Café 1, Pacific Café 2*, Pacific Café 3*, Pacific Café 4, Pacific Café 5, Promenade Starbucks, Grand Ballroom Foyer .................. 10:30am – 1:30pm

Thursday, April 27
Pacific Café 1, Pacific Café 2*, Pacific Café 3*, Grand Ballroom Foyer ........ 10:30am – 1:30pm

Afternoon Beverage Breaks
Saturday, April 22, 104 Foyer ................................................................................. 3:00pm – 3:30pm
Sunday, April 23, 104 Foyer ................................................................................. 2:45pm – 3:15pm
Monday, April 24 – Wednesday, April 26, Hall A ..................................................... 3:00pm – 3:30pm

* HOT FOOD ITEMS ARE SERVED AT THESE LOCATIONS ONLY

Continuous Coffee Service (during Technical Exhibition)
Monday, April 24 – Wednesday, April 26, Hall A .......................................................... 10:00am – 5:00pm
AJNR Booth – Promenade Lobby (Main Level)
All attendees are invited to stop by the booth any time to tour the new AJNR Web Site, AJNR Blog, and AJNR Digest.

Saturday, April 22 ................................................................. 10:00am – 5:00pm
Sunday, April 23 – Wednesday, April 26 .............................. 8:00am – 5:00pm
Thursday, April 27 ............................................................... 8:00am – 2:45pm

Meet AJNR’s Editor-in-Chief
Dr. Jeffrey Ross, AJNR’s Editor-in-Chief, will be present at the booth at various times to answer questions regarding the Journal’s online features, listen to suggestions, talk about projects with prospective authors, and advise fellows regarding their future contributions to AJNR.

Neurographics
Neurographics is ASNR’s bimonthly online educational journal, featuring peer-reviewed educational articles and select case reports. Most of the content for the journal is selected from the educational exhibits in the ASNR Annual Meeting. Neurographics is available free online at www.neurographics.org. ASNR members can earn free Category 1 SA-CME credit for each Neurographics review article by completing an online quiz at ASNR’s eCME site.

Go Green
Members, stop by the AJNR Booth to suspend your print subscription and reduce your footprint.
In addition to the Technical Exhibition, the leadership of the ASNR is pleased to announce the annual slate of instructional How-To Sessions. These sessions, presented in conjunction with major corporate contributors, deal with advances in imaging and procedures as well as principles in neuroradiology and image information management. How-To Sessions are scheduled throughout the week and offer a unique opportunity to hear about the latest developments in products and procedures that impact daily practice. Noted faculty speak on behalf of these companies to educate registrants about specific utilization of equipment and products to advance knowledge and skills of ‘neuro’ imaging techniques and processes. The sessions vary and include both didactic presentations and demonstrations, all with a strong practical emphasis.

Please Note: Due to the direct financial support from companies to conduct these sessions, CME credit hours will not be granted for any How-To Sessions by the ASNR.
**HOW-TO SESSIONS – GRAND BALLROOM (UPPER LEVEL)**

**Monday, April 24 | 7:15am – 7:55am**

**iSchemaView RAPID**

**How to Optimize Imaging for Acute Stroke**

*Moderator: Gregory W. Albers, MD*
Stanford University Medical Center, Stanford Stroke Center

*Howard A. Rowley, MD*
University of Wisconsin-Madison

*Ryan A. McTaggart, MD*
The Warren Alpert Medical School of Brown University

*Blaise Baxter, MD*
Erlanger Health System

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**Tuesday, April 25 | 7:15am – 7:55am**

**SIEMENS Healthineers**

**Neuroperfusion in the Angio Suite and Mobile Stroke Units: Rethinking ELVO Patient Selection Imaging Strategies to Improve Treatment Times and Outcomes**

*Blaise Baxter, MD*
Erlanger Health System

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**Tuesday, April 25 | 12:30pm – 1:15pm**

**BRACCO**

**Gadolinium-based Contrast Agents in the Clinical Setting: Where Does the Current Evidence Stand?**

**Optimization of Imaging Protocols For The Best Impact on Patient Management: What’s The Role of Relaxivity?**

*Mark C. DeLano, MD, FACR*
Michigan State University

**Safe Use of Contrast Agents in MRI: Should We Be Doing Anything Different?**

*Meng Law, MD, MBBS, FRACR*
USC Keck School of Medicine

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Please Note: Due to the direct financial support from companies to conduct these sessions, CME credit hours will not be granted for any How-To Sessions by the ASNR.
HOW-TO SESSIONS – GRAND BALLROOM (UPPER LEVEL)

Wednesday, April 26  |  7:15am – 7:55am

Clinical Outcomes After Scanning
Evaluating Brain Aneurysms Using 4D Flow Visualization  
Kambiz Nael, MD  
Icahn School of Medicine at Mount Sinai

Qualitative MR Imaging Markers in Dementia  
Marion Smits, MD, PhD  
University College London Hospitals Foundation Trust

Visualization Solutions for Neuro MR Images  
Suchandrima Banerjee, PhD  
Global MR Neuro Applications, GE Healthcare

Wednesday, April 26  |  12:30pm – 1:15pm

DSI, DKI, RSI, FOD, NODDI: Towards a Better Understanding of Tissue Microstructure with Modeling Approaches for Multi-Shell DTI  
Meng Law, MD, MBBS, FRACR  
USC Keck School of Medicine

Thursday, April 27  |  12:30pm – 1:15pm

Philips MRI Neuro Imaging & ScanWise Updates  
Emanuel Kanal, MD, FACR, FISMRRM, MRMD, AANG  
University of Pittsburgh Medical Center  
Joshua P. Nickerson, MD  
The University of Vermont

Please Note: Due to the direct financial support from companies to conduct these sessions, CME credit hours will not be granted for any How-To Sessions by the ASNR.
IMPORTANT INFORMATION FOR YOUNG PROFESSIONALS

Fellow, Resident, Medical Student or Neuroradiologist in the first 3 years of practice. Be our guest!

Young Professionals Lounge

Long Beach Convention & Entertainment Center – VIP B (Main Level)
Saturday, April 22 – Wednesday, April 26 • 6:30am – 6:00pm
Thursday, April 27 • 6:30am – 4:00pm

A “home base” for Fellows, Residents, Young Professionals & Medical Students to network and share knowledge and experiences throughout the meeting.

The Foundation of the ASNR Visionaries and Young Professionals Reception

Sunday, April 23 • 7:30pm – 8:30pm
Hyatt Regency Long Beach – Beacon Ballroom

We invite you to join us at the reception on Sunday, April 23, 2017 with the leadership of the ASNR and The Foundation of the ASNR. The evening reception will include beverages and appetizers. We hope to see you there!

Young Professionals Programming

(as of 3/31/17)

Young Professionals Sessions

ASNR has designed specific program topics for learning during the ASNR Annual Meeting. You won’t want to miss the following session presentations:

Tuesday, April 25 • 5:00pm – 6:30pm
Room 104B (Main Level)

Leadership (In collaboration with Radiology Leadership Institute)*
Moderator: Neil U. Lall, MD

Getting Started in Leadership (RLI Credit*)
Frank J. Lexa, VII, MA, MBA

Change Management (RLI Credit*)
Carolyn Cidis Meltzer, MD, FACP

Professional Use of Social Media: Personal Branding and Networking (RLI Credit*)
Jennifer L. McCarty, MD

Questions and Answers

Thursday, April 27 • 11:00am – 12:15pm
Grand Ballroom (Upper Level)

Head and Neck Diseases and Diagnoses
Moderator: Nancy Benedetti, MD

Trigeminal Neuralgia
Richard H. Wiggins, III, MD

Vision Loss and Diplopia
Jenny K. Hoang, MBBS

Questions and Answers

* Radiology Leadership Institute (RLI) credit can be claimed by accessing https://radiologyleaders.wufoo.com/forms/z1cn4jsc0ghpbrq/
All attendees are invited to a coastal, relaxing reception for networking. Enjoy the pleasant sounds of beach background music while in the breezy atmosphere of Long Beach!

CLOSING RECEPTION OF THE SYMPOSIUM
Sunday, April 23
Long Beach Convention & Entertainment Center
6:00pm – 7:15pm, 104 Foyer/Promenade Plaza (Main Level)

Enjoy a night full of jazz music and the opportunity to mingle with ASNR Technical Exhibitors at our Annual Meeting Reception. Located in the Technical Exhibit, Hall A, the pre-dinner reception will include light food and beverages. We look forward to an enjoyable exchange!

ANNUAL MEETING RECEPTION WITH TECHNICAL EXHIBITORS
Monday, April 24
Long Beach Convention & Entertainment Center
6:30pm – 8:00pm, Hall A (Lower Level)
Case of the Day
Monday, April 24 – Wednesday, April 26
Hall B (Lower Level)
Test your neuroradiology knowledge and earn a chance to win prizes, including full registration to the ASNR 2018 Annual Meeting and two (2) nights (standard room) at the Pan Pacific Vancouver or Fairmont Waterfront hotels. This interactive programming presents six new cases each day on Monday through Wednesday. Submit your preferred diagnoses by 5:00pm each day via the ASNR Annual Meeting Mobile App. Each correct submission earns you a chance to win prizes. NOTE: No CME credit is available for this activity.

Education Exhibits Tour
Monday, April 24, 12:15pm – 1:15pm
Wednesday, April 26, 12:15pm – 1:15pm
Hall B (Lower Level)
Receive CME credits for participating in the Education Exhibits Tour!

Review Educational Exhibits, visual presentation/educational displays designed to further the understanding of Neuroradiology by featuring cutting-edge material or by offering an instructional review of a particular topic. The session will allow for review of visually-oriented educational displays that demonstrate novel and innovative applications for computers in Neuroradiology clinical practice, training and research. Share this educational opportunity with your colleagues and primary Exhibit presenters and exchange in a lively Questions & Answers Session.

Another unique feature not to be missed at the ASNR … See you on the tour!

Turbo Talk Sessions
The first 40 minutes of the session will be held in the Turbo Talk Theater Room 102BC (Main Level), where authors will each give a 2.5 minute oral presentation. These brief talks are done back to back, spaced 3 minutes apart, with no questions — in a spirited, rapid fire format. The goal is to capture the essence and salient points of the work in just 2.5 minutes, highlighting innovations / results / outcomes — “The Big Picture”. The moderators will be strict but jovial! See program schedule.

The second 35 minutes of the session will be held outside of Room 102BC (Main Level) — using electronic display monitors. Each presenter will have their own monitor to present details of their work in a longer presentation, get feedback and exchange Questions and Answers. The audience will move at will amongst the 13 displays to hear more about their favorite talks.
STUDY GROUPS INFORMATION

ASNR Study Groups

Study Groups target areas of critical importance to the field of neuroradiology and are composed of neuroradiologists, neuroscientists, and investigators from associated disciplines, who are united in their interest in higher level, sophisticated investigations of these target areas. These sessions will be offered during the Annual Meeting. They are open to all attendees on a first-come, first-serve basis.

No CME credit will be awarded for these sessions.

CLINICAL TRANSLATION OF FUNCTIONAL DIFFUSION MRI STUDY GROUP

Monday, April 24 | 5:00pm – 6:30pm | Room 104C

The ASNR Study Group for the Clinical Translation of Functional and Diffusion MRI represents an international multidisciplinary endeavor to identify critical knowledge gaps that must be addressed to translate these advanced neuroimaging techniques into sensitive/specific clinical tools for the diagnosis of diseases affecting the brain. The Study Group is comprised of representatives from neuroradiology, neurology, neurosurgery, psychiatry, pediatrics, and the neurosciences, thereby leveraging a broad interdisciplinary perspective to develop a strategic framework of key action items to address these knowledge gaps. To this end, the Study Group has been organized to focus on two primary aims: 1) To investigate the reproducibility of functional and advanced diffusion MRI techniques, which is necessary for translation of these methods into robust diagnostic imaging tools, and 2) To review and disseminate the current evidence to date supporting the use of functional and advanced diffusion MRI methods in clinical practice. Additional manuscripts are being developed to review the methodological breadth of advanced diffusion imaging, as well as the evidence supporting the clinical use of functional and advanced diffusion imaging techniques, as applied to a variety of clinical entities (e.g., psychiatric disease, preterm birth, brain tumors, multiple sclerosis, etc).
INTRACRANIAL AND CERVICAL VESSEL WALL IMAGING STUDY GROUP

Tuesday, April 25, 2017 | 5:00pm – 6:30pm | Room 104C

With the recent success of high-resolution cervical vessel wall imaging for defining stroke risk beyond that achievable by angiography, the Study Group has now turned its attention to the intracranial vessel wall, a new frontier in neurovascular imaging. Recognizing this, the ASNR has supported the formation of the Intracranial and Cervical Vessel Wall Imaging Study Group mandated to take a leading role in advancing both clinical applications and research in this new and growing field. The Study Group is composed of a multidisciplinary team organized to develop methodologies and share clinical expertise for redefining knowledge of both cervical and intracranial vasculopathies. Its primary goals are to establish uniform imaging protocols, promote multi-institutional research, and develop educational programs and materials. The group offers a variety of opportunities for making seminal and impactful contributions in this field.

IMAGING GENOMICS STUDY GROUP

Wednesday, April 26, 2017 | 5:00pm – 6:30pm | Room 104C

The ASNR Imaging Genomics Study Group serves as a unified voice and body for advancing the clinical and research applications of imaging genomics. For this mission the Study Group is working on the development and validation of imaging genomics biomarkers and biomarker signatures. The Study Group seeks to pool genomic data from multicenter image-guided tumor biopsies in combination with quantitative data from anatomic and physiologic MR. Imaging genomics correlates and investigates the relationship between imaging features of tumors and metabolomic and proteomic expression data to form the most complete imaging-molecular data analysis possible. The Study Group is also focusing on the need for standardization of imaging across vendors, software platforms, post-processing techniques, etc., and on enhancing awareness and multidisciplinary collaboration among the imaging and non-imaging communities to advance imaging genomic paradigms within these fields. The Study Group has finalized for publication the ASNR Imaging Genomics White Paper exploring the current state and future directions of imaging genomics in brain tumors.
THE INTERNATIONAL HYDROCEPHALUS IMAGING WORKING GROUP (IHIWG) — CSF FLOW GROUP

Long Beach Convention & Entertainment Center – Room 201 A
Thursday, April 27, 2017 | 1:00pm – 5:30pm
Friday, April 28, 2017 | 8:00am – 3:30pm

The IHIWG (International Hydrocephalus Imaging Working Group) consists of neuroradiologists, neurologists, neurosurgeons, bioengineers, and basic scientists who meet twice a year in conjunction with ASNR and the ISHCSF (International Society for Hydrocephalus and CSF Disorders). The meeting will address all forms of hydrocephalus with emphasis on imaging NPH, including phase contrast techniques to measure aqueductal CSF flow, DESH (Disproportionately Enlarged Subarachnoid Space Hydrocephalus), and TimeSLIP to predict response to shunting. Additionally, the Study Group compares these noninvasive MR-based techniques to the more invasive intracranial pressure monitoring, saline infusion, high-volume tap test and external lumbar drainage. CSF production and resorption, role of aquaporins, and CSF flow measurements to study Chiari I malformations as well as potential sources of error in measurements are reviewed. Recent meetings have had focused sessions on MRI measurement of connectivity, tractography, elastography and evolving concepts such as the “glymphatic system” and the VIIP (Visual Impairment and Intracranial Pressure) syndrome experienced by astronauts spending time on the space station.

Infantile hydrocephalus and benign external hydrocephalus and the role of the latter as a potential cause of NPH later in life are discussed, in addition to examining changes in DTI and MR elastography in NPH and discuss related topics such as aqueductal stenosis and pseudotumor cerebri.

To learn more about the IHIWG’s mission, members, and previous meetings, please visit www.ihiwg.org.

If you have any questions regarding this group, please visit the On-Site Registration Desk.
No CME credit will be awarded for this session.
## TECHNICAL EXHIBITS ROSTER

As of 3/31/17

### Long Beach Convention and Entertainment Center – Hall A (Lower Level)

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
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<tbody>
<tr>
<td>Monday, April 24</td>
<td>10:00am – 5:00pm</td>
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<td>Tuesday, April 25</td>
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<tr>
<td>Wednesday, April 26</td>
<td>10:00am – 5:00pm</td>
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### Exhibitors

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<tr>
<th>Company</th>
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<tr>
<td><strong>AprioMed, Inc.</strong></td>
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<tr>
<td>2 Palmer Drive, Londonderry, NH 03053</td>
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<tr>
<td><strong>Bayer</strong></td>
<td>#208</td>
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<tr>
<td>1 Bayer Drive, Indianola, PA 15051</td>
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<tr>
<td><strong>Benvenue Medical, Inc.</strong></td>
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<tr>
<td>5403 Betsy Ross Drive, Santa Clara, CA 95054</td>
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<tr>
<td><strong>Bracco Diagnostics Inc.</strong></td>
<td>#106</td>
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<tr>
<td>259 Prospect Plains Road, Bldg. H, Monroe Township, NJ 08831</td>
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<tr>
<td><strong>Brainlab</strong></td>
<td>#524</td>
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<tr>
<td>5 Westbrook Corporate Center, Suite 1000, Westchester, IL 60154</td>
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<tr>
<td><strong>CorTechs Labs</strong></td>
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<tr>
<td>4690 Executive Drive, Suite 250, San Diego, CA 92121</td>
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<tr>
<td><strong>Elsevier, Inc.</strong></td>
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<td>1600 JFK Blvd., Ste. 1800, Philadelphia, PA 19103</td>
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<td><strong>1ST TIME EXHIBITOR</strong> Elucid Bioimaging Inc.</td>
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<td>225 Main Street, Suite 15, Wenham, MA 01984</td>
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<td>3000 Grandview Boulevard, Waukesha, WI 53188</td>
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<td><strong>Guerbet LLC</strong></td>
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<td>812 Alexander Road, Suite 204, Princeton, NJ 08540</td>
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<td><strong>1ST TIME EXHIBITOR</strong> Hi-Dow International</td>
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<td>6150 McLeod Drive, Suite A, Las Vegas, NV 89120</td>
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<td><strong>Hitachi Medical Systems America, Inc.</strong></td>
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<tr>
<td>1959 Summit Commerce Park, Twinsburg, OH 44087</td>
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<tr>
<td><strong>icometrix</strong></td>
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<tr>
<td>Kolonel Begaultlaan 1B box 12, Leuven, Belgium 3012</td>
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<tr>
<td><strong>1ST TIME EXHIBITOR</strong> Infab Corporation</td>
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<td><strong>Invivo Corporation</strong></td>
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<td>N27 W23676 Paul Road, Pewaukee, WI 53072</td>
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<tr>
<td><strong>1ST TIME EXHIBITOR</strong> iSchemaviewRAPID</td>
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<tr>
<td>201 Marshall Street, Redwood City, CA 94063</td>
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#asn17
Laurane Medical ......................................................................................................................Booth #120
159 Wesley Avenue, Westbrook, CT 06498

1ST TIME EXHIBITOR Lorion Beauty, LLC ..............................................................................Booth #518
300 NE 183 Rd Street, Miami, FL 33179

Medtronic .................................................................................................................................Booth #129
1800 Pyramid Place, Memphis, TN 38130

1ST TIME EXHIBITOR Nature’s Wonder ..................................................................................Booth #129
8550 W. Desert Inn Road 102-481, Las Vegas, NV 89117

NordicNeuroLab ......................................................................................................................Booth #116
234 W. Florida Street, Suite 205, Milwaukee, WI 53204

1ST TIME EXHIBITOR Nova Innovations ..................................................................................Booth #325
Las Vegas, NV

1ST TIME EXHIBITOR Novarad ...............................................................................................Booth #124
752 E. 1180 S. Suite 200, American Fork, UT 84003

1ST TIME EXHIBITOR NucleusHealth ....................................................................................Booth #329
13280 Evening Creek Drive S., Suite 110, San Diego, CA 92128

Olea Medical ..............................................................................................................................Booth #315
93, avenue des Sorbiers, La Ciotat, France 13600

Philips Healthcare .....................................................................................................................Booth #109
595 Miner Road, Cleveland, OH 44143

Prism Clinical Imaging, Inc .........................................................................................................Booth #228
890 Elm Grove Road, Suite 215, Elm Grove, WI 53122

1ST TIME EXHIBITOR Radiology Partners .............................................................................Booth #520
2101 E. El Segundo Boulevard, Suite 401, El Segundo, CA 90245

Sheridan Healthcare ...................................................................................................................Booth #428
7700 West Sunrise Boulevard, Plantation, FL 33322

Siemens Healthineers .................................................................................................................Booth #309
40 Liberty Boulevard, Malvern, PA 19355

Stryker ........................................................................................................................................Booth #210
2825 Airview Boulevard, Kalamazoo, MI 49002

1ST TIME EXHIBITOR TeraRecon ............................................................................................Booth #427
4000 E. 3rd Avenue, #200, Foster City, CA 94404

Toshiba America Medical Systems, Inc .......................................................................................Booth #110
2441 Michelle Drive, Tustin, CA 92780

1ST TIME EXHIBITOR UBS Financial Services, Inc .................................................................Booth #323
131 South Rodeo Drive, Suite 300, Beverly Hills, CA 90212

VasSol, Inc ...................................................................................................................................Booth #424
601 N. Ashley Drive, Suite 800, Tampa, FL 3360

vRad ...........................................................................................................................................Booth #411
11995 Singletree Lane, #500, Eden Prairie, MN 55344

Wolters Kluwer ..........................................................................................................................Booth #223
Two Commerce Sq, 2001 Market Street, Philadelphia, PA 19103

TECHNICAL EXHIBITS ROSTER
THE FOUNDATION OF THE ASNR

Please stop by the Donor Lounge in room VIP A (Main Level) to learn more about The Foundation of the ASNR, pick up your donor ribbon, and make a contribution if you have not previously had the opportunity.
Upper Level

As of 3/31/17

COMMITTEE/CSF/HWG
201A 201B

HQ OFFICE

BREAKOUT ROOM #2
202

BREAKOUT ROOM 7
203AB

CME Pavilion/SAM Response Area
203C

Stairs go Down to Main Level
AUDIENCE RESPONSE (AR) SYSTEM FEATURES

SMART POLLING WEB INSTRUCTIONS

- Go to www.pollev.com/asnr
- Select Login
- You will see the following screen: Then enter your email address that you registered with and password asnr2017
- To reconfirm your login information click on the Icon in the black bar beside @asnr’s presentation and you will see your login status. Then click ‘Back’.

![Screen A](image)

![Screen B](image)

![Screen C](image)

![Screen D](image)
WiFi Connection
Please connect your device to the WiFi network named ASNR and enter the password asnr2017 to ensure the strongest signal.

Alternative Submission of SAM Answers
If you do not submit answers to SAM questions in the live session itself, you will have the opportunity to obtain self-assessment credit by answering the same questions during your CME evaluations in the CME Pavilion/Alternate SAM Response Area in 203C (Upper Level) or via the Experient site at ceu.experient-inc.com/asn171.

SAM Credits
If you use the Audience Response system to answer SAM questions within a session, your credits will not immediately appear in your CME credits listed in the CME Pavilion/Alternate SAM Response Area. Please allow two hours following the session conclusion for the credits to be transferred to the CME Pavilion/Alternate SAM Response Area.

Login
You will need to login using your e-mail address that you registered with and password asnr2017

If you are participating in sessions below please use www.pollev.com/asnr to log into the audience response system.

Session #02A  Session #08A  Session #17B  Session #22A
Session #05A  Session #13A  Session #19A  Session #25A
Session #07C  Session #16A  Session #21A

Please see the AR Help Desk located in the Grand Ballroom Foyer (Upper Level) with any questions.
INFORMATION FOR SCIENTIFIC POSTER AND EDUCATION EXHIBIT PRESENTERS

Storing of Scientific Poster/Educational Exhibit Poster Shipping Containers
Shipping containers used to transport Scientific Posters and Educational Exhibit Poster may not be left in the display area. Trash cans are available to dispose of shipping containers that will not be used again. The ASNR Luggage/Coat Check* Promenade Lobby (Main Level) is available to leave your container during the week.

Push pins, scissors and tape for use in mounting exhibits and posters will be available at the Service Desk at no charge.

* Please note that the coat check is not a secure location and ASNR will not be responsible for any containers that are lost.

Exhibit Service Desk Hours – Hall B (Lower Level)
Sunday, April 23 | 8:00am – 6:00pm
Monday, April 24 | 8:00am – 4:00pm

Containers placed in this area must have an identifying label that includes the name of the owner and the poster or exhibit number. Containers without an identifying label will be considered available for use by ASNR and/or will be removed.

Security
ASNR will provide general overall guard service in Hall B on a 24-hour basis throughout the Annual Meeting. However, neither ASNR nor the guard service will be responsible for loss of or damage to any property for any cause. Any attendee requesting access to Hall B outside of poster set-up, exhibit or dismantle hours must obtain permission and authorization in advance from ASNR Meetings Department Staff.

Contacting ASNR Staff Pre-Meeting & On-Site
Please contact us with any questions or concerns you may have. We may be contacted through the Registration Desk (Promenade Lobby) of the Long Beach Convention & Entertainment Center. We will be happy to meet with you personally to discuss any aspect of the meeting.

Exhibit Set-up/Installation Hours – Hall B (Lower Level)
All exhibits must be set-up by 9:00pm on Sunday, April 23.
INFORMATION FOR ELECTRONIC SCIENTIFIC POSTER AND EDUCATIONAL EXHIBITS

INFORMATION FOR SCIENTIFIC POSTER AND EDUCATION EXHIBIT PRESENTERS (CONTINUED)

Educational Exhibit and Scientific Poster Location and Hours
Hall B (Lower Level)
Monday, April 24 through Wednesday, April 26 | 6:30am – 9:00pm
Thursday, April 27 | 6:30am – 1:00pm

Exhibit Dismantle Hours
Removal of exhibits may begin at 1:00pm to 4:00pm on Thursday, April 27. All exhibits must be removed by 4:00pm on Thursday, April 27. Any items still remaining in the Exhibit Hall at 4:00pm will be discarded at that time.

Note: All exhibits must remain in place until 1:00pm on Thursday, April 27
Exceptions to this policy must be requested in writing to ASNР and approved by the Education Exhibits Chair.

All presenters are required to set-up and dismantle their exhibits based on the above schedule. Should you encounter a conflict regarding this schedule, please contact Valerie Geisendorfer, CMP, Senior Manager of Scientific Meetings, at vgeisendorfer@asnr.org or directly onsite.

***A message can also be left at the ASNR Registration Desk***

Electronic Poster, and Electronic Education Exhibits
Location and Hours:
Hall B (Lower Level)
Monday, April 24 through Wednesday, April 26 | 6:30am – 9:00pm
Thursday, April 27 | 6:30am – 1:00pm

It is suggested that all presenters review their exhibits/posters in Hall B (Lower Level), prior to Monday, April 24 to check/view their presentations. Please contact Valerie Geisendorfer, CMP, Senior Manager of Scientific Meetings, at vgeisendorfer@asnr.org or directly onsite.

***A message can also be left at the ASNR Registration Desk***

Education Exhibit Service Desk
Hall B (Lower Level)
A Service Desk will be located in Hall B (Lower Level) at the Long Beach Convention & Entertainment Center during the following hours:
Sunday, April 23 | 8:00am – 6:00pm
Monday, April 24 | 8:00am – 4:00pm

#asnr17
# Electronic Scientific Poster, and Scientific Poster

*Hall B – (Lower Level)*

## Scientific Posters

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## Scientific Posters (Printed)

- **Adult Brain** ......................... 1-51
- **Head and Neck** ..................... 52-64
- **Informatics** ....................... 65
- **Interventional** ................. 66-75
- **Pediatrics** ....................... 76-83
- **Socioeconomics** ............... 84-86
- **Spine** ............................ 87-94

## Electronic Scientific Posters (eP)*

- **Adult Brain** ......................... 1-76b
- **Head and Neck** ..................... 77-89a
- **Interventional** ................. 90-98
- **Pediatrics** ....................... 99-108
- **Socioeconomics** ............... 109-113
- **Spine** ............................ 114-119

*See page 27 for level diagram*
Educational Exhibit Posters and Electronic Educational Exhibit

Hall B – (Lower Level)

Educational Exhibit Posters

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Electronic Educational Exhibits (eEdE)*

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<td>223-255</td>
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</table>

*See page 27 for level diagram
Take Your Official Continuing Medical Education (CME) Certificate Home With You!

To print out the official CME certificate for the number of hours claimed during The Foundation of the ASNR Symposium 2017 and ASNR 55th Annual Meeting go to any terminal in the CME Pavilion and follow the simple directions for printing out an official The Foundation of the ASNR Symposium 2017 and ASNR 55th Annual Meeting CME Certificate.

Following the meeting, the ASNR 2017 CME certificate site will be available online for 90 days for attendees to print out their CME certificates.

Please Note: Due to the availability of CME certificates online, certificates will not be mailed to attendees.

Letter of Attendance

If you wish to obtain a Letter of Attendance, please request one at the Registration Desk located at Promenade Lobby (Main Level) of the Long Beach Convention & Entertainment Center.

Continuing this year!

• Evaluations available online with remote access 24/7 through the meeting at ceu.experient-inc.com/asn171
• Open until Monday, May 15, 2017 to evaluate

CME Pavilion

Evaluations can be completed at the end of a session, during breaks, at the end of the day or the end of the week, as well as on your personal device at ceu.experient-inc.com/asn171. You will be able to view a record of the sessions you have evaluated and the number of CME credit hours earned throughout the program. Print your certificate and transcript to take home with you.

Please Note: To receive CME credit for sessions attended at The Foundation of the ASNR Symposium 2017 and ASNR 55th Annual Meeting, all evaluations must be entered by Monday, May 15, 2017.
Accreditation Statement
The American Society of Neuroradiology is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. The American Society of Neuroradiology takes responsibility for the content, quality, and scientific integrity of the CME activity.

Credit Designation Statement
The American Society of Neuroradiology designates this live activity for a maximum of 14.00 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Target Audience
The Foundation of the ASNR Symposium 2017 will focus on Discovery and Didactics featuring “What’s New?” for neuroradiologists. It will focus on the role of neuroimaging in defining CNS disease mechanisms and how to best prepare for change, including “What’s Next?” in training, teaching and leading the process of lifelong learning. The target audience will include practicing neuroradiologists, other radiologists charged with interpreting urgent CNS and head and neck studies, neuroscientists interested in the latest advances, clinical colleagues ordering CT and MRI in an emergency setting, and trainees. Dedicated topic areas include what’s new in Head and Neck Techniques and Pediatric Neuroimaging, Metallic Artifact Reduction MR Sequences (MARS), Imaging Debate session on fMRI: Fact, Fiction and Future, Overnight Coverage Alternatives, Neuroimaging for Functional Neurosurgery, Cerebrovascular Treatment and Training, Wellness and Burnout in Practice and Training, Machine Learning and Artificial Intelligence.
Accreditation Statement
The American Society of Neuroradiology is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. The American Society of Neuroradiology takes responsibility for the content, quality, and scientific integrity of the CME activity.

Credit Designation Statement
The American Society of Neuroradiology designates this live activity for a maximum of 31.75 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Target Audience
The ASNR 55th Annual Meeting is the premier neuroradiology meeting in the world, welcoming international and domestic participants. The meeting will focus on Diagnosis and Delivery, for the following target audiences:

• Neuroradiologists in clinical practice and research.
• General radiologists who interpret neuroradiology studies.
• Young Professionals and Trainees in radiology and neuroradiology.
• Brain, Spine and Head and Neck imaging Scientists.
• Clinicians and trainees from related disciplines.

A variety of learning formats will be offered, to allow for individual learning preferences, featuring educational focus sessions, parallel scientific paper presentations, electronic and traditional posters, “Turbo Talks”, Self-Assessment Modules (SAMs), interactive audience response for case-based learning and programming of particular interest to young professionals in training or early practice.

The ASNR 55th Annual Meeting is designed to address the clinical, scientific, academic, socio-economic and other practice-related issues that challenge Neuroradiologists today and anticipate those imminently ahead. As always, the meeting will provide ample opportunity for networking and information exchange among colleagues, industry partners, and friends in the unique setting of Long Beach, California... cheerful, warm and welcoming.
Objectives

- Prepare for leading the process of lifelong learning.
- Identify best practices in Diagnosis and Delivery.
- Define ways to provide value, promote quality and better healthcare.
- Examine solutions for better healthcare while considering cost.
- Realize how to navigate the changing landscape of healthcare reform and reimbursement.
- Discuss imaging strategies for selecting patients for Endovascular Therapy.
- Appreciate clinical relevance of Functional Imaging.
- Select appropriate treatment for Emergent Large Vessel Occlusion.
- Accurately assess the traumatized spine.
- Deliberate clinical factors for vertebral augmentation, attendant risks and benefits.
- Investigate new platforms for Functional Neuroimaging.
- Comprehend the basis for and applications of evidence-based medicine as applied to Neuroradiology.
- Learn about training across the Education Continuum.
- Determine how healthcare reform is impacting Neurointerventional Care.
- Recognize emerging and reemerging Infectious Diseases.
- Be aware of the latest Advances in Imaging including PET/MRI.
- Consider new treatment for Pediatrics Brain Tumor Neuroimaging.
- Analyze how we measure the Quality of MIPS Quality Measurements.
- Interpret Cases of Head and Neck Malignancy.
- Diagnose Abusive CNS Trauma in Pediatrics.
- Know the imaging features of Childhood Encephalomyelitis.
- Describe the delivery of value-added Head and Neck Imaging.
- Distinguish the benefits of different types of Neuroradiology practices.

Acknowledgment of Commercial Support and Educational Grant from Bayer.
Access www.pollev.com/asnr during each SAM Session below for Audience Response

**Monday, April 24**

Grand Ballroom (Upper Level) • 8:05am – 9:05am
*Session #02A – Monday Morning SAM – Pediatrics (AR) (SAM)*

Grand Ballroom (Upper Level) • 1:30pm – 3:00pm
*Session #05A – SNIS Programming: Best Practices in Diagnosis of Emergent Large Vessel Occlusion (ELVO) in Stroke Patients (AR) (SAM)*

Room 103 (Main Level) • 5:00pm – 6:30pm
*Session #07C – ASFNR Programming: The Clinical Anatomy of Functional Imaging (AR) (SAM)*

**Tuesday, April 25**

Grand Ballroom (Upper Level) • 8:00am – 9:00am
*Session #08A – Tuesday Morning SAM – Head & Neck (AR) (SAM)*

Grand Ballroom (Upper Level) • 1:30pm – 3:00pm
*Session #13A – ASSR Programming: Spine Oncology (AR) (SAM)*

*This SAM module (or activity) meets the ABR's criteria for self-assessment CME (SA-CME) in the ABR Maintenance of Certification program.

This SAM activity will earn the same number of SA-CME credits as the stated CME credits. Please log into myABR at https://myabr.theabr.org to report these credits to the American Board of Radiology. If you do not have an ABR login, please click on the Not Registered link to register your account or contact the ABR at 520-519-2152 for assistance.
This SAM module (or activity) meets the ABR’s criteria for self-assessment CME (SA-CME) in the ABR Maintenance of Certification program.

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THE FOUNDATION OF THE ASNR SYMPOSIUM 2017: DISCOVERY AND DIDACTICS

Refer to the ASNR Meeting App for all current programming and exhibit schedule updates.

Discovery and Didactics

Saturday, April 22, 2017

10:20am – 10:30am Session SY1 Opening Remarks
Grand Ballroom (Upper Level)
Jacqueline A. Bello, MD, FACR, ASNR 2017 Program Chair/President-Elect
World Federation of Neuroradiology (WFNRS) Symposium Neuroradiologicum (SNR) XXI Remarks
Wan-Yuo Guo, MD, PhD

10:30am – 12:00pm Session SY2 New Dimensions in Neurosurgery
Grand Ballroom (Upper Level)
Moderator: Jacqueline A. Bello, MD, FACR
10:30am – 11:05am Epilepsy Surgery: New Approaches in Old Problems
Guy M. McKhann II, MD
11:05am – 11:40am 360 Degree Approach to the Skull Base: A Modernistic View
James K. Liu, MD, FACS, FAANS
11:40am – 12:00pm Imaging Evaluation for ESBS: Radiology Contribution to Surgical Candidacy and Surveillance
Kim O. Learned, MD

10:30am – 1:30pm Lunch Concessions Stands
Pacific Cafe, Promenade Starbucks, Grand Ballroom Foyer

1:30pm – 3:00pm Session SY3 What’s New in Pediatric Neuroimaging
Grand Ballroom (Upper Level)
Moderators: Dennis Shaw, MD; Christopher G. Filippi, MD
1:30pm – 1:50pm Optimizing our Neuroimaging Approach in Children
Richard L. Robertson, MD
1:50pm – 2:10pm Exploiting Recent Advances in MRI and Targeted Protocoling in Pediatric Neuroimaging
Arastoo Vossough, PhD, MD
2:10pm – 2:30pm Motion Correction in Pediatric Brain MR Imaging
Roland Bammer, PhD
2:30pm – 2:50pm New Pediatric Neuroimaging Applications
Mai-Lan Ho, MD
2:50pm – 3:00pm Questions & Answers
## Discovery and Didactics

**Saturday, April 22, 2017**

### 3:00pm – 3:30pm
**Afternoon Beverage Break**  104 Foyer (Main Level)

### 3:30pm – 5:00pm
**Session SY4**  
**Advanced Imaging Techniques in Head & Neck: Current and on the Horizon**  
*Grand Ballroom (Upper Level)*  
*Moderators: Geoffrey S. Young, MD; Bruno A. Policeni, MD*

- **3:30pm – 4:00pm**  
  Perfusion Imaging in Head & Neck  
  *Yoshimi Anzai, MD, MPH*

- **4:00pm – 4:30pm**  
  Dual Energy CT in the Neck  
  *Reza Forghani, MD, PhD*

- **4:30pm – 5:00pm**  
  Biological and Molecular CT Imaging  
  *Suresh K. Mukherji, MD, FACR, MBA*

### 5:00pm – 6:15pm
**Session SY5**  
**Clinical fMRI Statistics: Fact, Fiction and Future**  
*Grand Ballroom (Upper Level)*  
*Moderator: Kalliopi A. Petropoulou, MD*

- **5:00pm – 5:15pm**  
  Basic fMRI Statistical Methods  
  *Devon M. Middleton, PhD*

- **5:15pm – 5:30pm**  
  fMRI Statistical Pitfalls: New Publicity for an Old Problem  
  *Scott H. Faro, MD*

- **5:30pm – 5:45pm**  
  Managing fMRI Statistical Issues in Clinical Presurgical Mapping  
  *Kirk M. Welker, MD*

- **5:45pm – 6:00pm**  
  Future Efforts at fMRI Standardization and Calibration: QIBA and Beyond  
  *Haris Sair, MD*

- **6:00pm – 6:15pm**  
  Discussion
Monday, April 24, 2017

6:30am – 8:30am  Breakfast Concession Stands
Pacific Cafe, Promenade Starbucks, Breakfast Bar, Grand Ballroom Foyer

7:30am – 9:00am  Session SY6  A Look to the Future of Cerebrovascular Treatment
Grand Ballroom (Upper Level)
Moderator: Blaise W. Baxter, MD

7:30am – 7:50am  Neuroprotection for Stroke
William J. Mack, MD

7:50am – 8:10am  Endovascular Approaches to Pediatric Tumors-What is the Development?
Steven W. Hetts, MD

8:10am – 8:30am  Imaging and Histopathology of Thrombi in Stroke: Systematic Review and Meta-Analysis
Waleed Brinjikji, MD

8:30am – 8:50am  ICAD-The Frontier of Plaque Imaging
Danny Mandell, PhD, MD, FRCPC

8:50am – 9:00am  Questions

9:00am – 10:00am  Session SY7  Turning Down and Dealing with the Noise
Grand Ballroom (Upper Level)
Moderator: Gordon K. Sze, MD, FACP

9:00am – 9:20am  Metallic Artifact Reduction in CT
Ulrich A. Rassner, MD

9:20am – 9:40am  Metallic Artifact Reduction in MRI
Roland R. Lee, MD, FACP

9:40am – 9:50am  Metallic Artifact Reduction in Neuroangiography
John D. Barr, MD, FACP, FSIR, FAHA

9:50am – 10:00am  Discussion

10:00am – 10:30am  Morning Beverage Break
104 Foyer (Main Level)
Discovery and Didactics

Sunday, April 23, 2017

10:30am – 12:00pm  
**Session SY8**  
**Machine Learning Artificial Intelligence**  
**Grand Ballroom (Upper Level)**  
**Moderator:** John L. Go, MD, FACR

10:30am – 11:00am  
The Future of Artificial Intelligence in Healthcare  
*Tanveer F. Syeda-Mahmood, PhD*

11:00am – 11:30am  
Deep Learning: How It Works and How It Can Fail  
*Bradley J. Erickson, MD, PhD*

11:30am – 12:00pm  
Deep Learning in Neuroradiology: Review of Basic Concepts, Current Applications, and Future Opportunities  
*Luciano M. Prevedello, MD, MPH*

10:30am – 1:30pm  
**Lunch Concession Stands**  
Pacific Cafe, Promenade Starbucks, Grand Ballroom Foyer

12:15pm – 1:00pm  
**Special Session: Bayer/Medscape**  
**Grand Ballroom (Upper Level)**  
*This Special Panel Session is not part of The Foundation of the ASNR Symposium 2017 or ASNR 55th Annual Meeting.*

1:15pm – 2:45pm  
**Session SY9**  
**Neuroimaging for Functional Neurosurgery**  
**Grand Ballroom (Upper Level)**  
**Moderators:** Rajan Jain, MD

1:15pm-1:35pm  
Functional Neurosurgery Overview  
*Kendall Lee, MD, PhD*

1:35pm-1:55pm  
Technical and Safety Considerations in Functional Imaging of Deep Brain Stimulation (DBS) Leads  
*Stephen Jones, MD, PhD*

1:55pm-2:15pm  
Bold fMRI to Assess DBS Lead Efficacy and Complications  
*Paul Hoon-Ki Min, PhD*

2:15pm-2:35pm  
MRI Guided Focused Ultrasound for Treatment of Essential Tremors  
*T. Jason Druzgal, MD, PhD*

2:35pm-2:45pm  
Discussion

2:45pm – 3:15pm  
**Afternoon Beverage Break**  
104 Foyer (Main Level)
**Discovery and Didactics**

**Sunday, April 23, 2017**

**3:15pm – 4:45pm  Session SY10**  
**Vascular Pathology that Can Hurt and Harm**  
**Grand Ballroom (Upper Level)**  
*Moderator: Allan L. Brook, MD, FSIR*

- **3:15pm – 3:40pm**  
  Thunderclap Headache-Evaluation Strategies  
  Robert K. Fulbright, MD

- **3:40pm – 4:05pm**  
  Unruptured Intracranial Aneurysms  
  Ajay Malhotra, MD

- **4:05pm – 4:30pm**  
  Stroke  
  Anne Catherine Kim, MD

- **4:30pm – 4:45pm**  
  Discussion

**4:45pm – 6:00pm  Session SY11**  
**Neuroradiology from Dusk until Dawn**  
**Grand Ballroom (Upper Level)**  
*Moderators: Jacqueline A. Bello, MD, FACR; Erin Simon Schwartz, MD*

- **Private Practice and Community Settings**  
  Gregory N. Nicola, MD

- **Academic with Subspecialty Reads**  
  Jimmy S. Lee, MD, PhD

- **Academic Night Coverage by General Radiology**  
  Barton F. Branstetter IV, MD

- **Teleradiology**  
  Jean-Paul Dym, MD

- **Resident Training Impact**  
  David M. Mirsky, MD; Sana Ali, MD; Susan T. Sotardi, MD, MS & Eric F. Grief, DO

- **Discussion**

**6:00pm – 7:15pm**  
**Closing Reception of the Symposium**  
**104 Foyer/Promenade Plaza (Main Level)**
Monday, April 24, 2017

6:00am – 8:30am Breakfast Concession Stands
Locations: Pacific Cafe, Promenade Starbucks, Breakfast Bar, Grand Ballroom Foyer

7:15am – 7:55am How-To Session - iSchemaViewRAPID
Location: Grand Ballroom (Upper Level)

7:55am – 8:05am Session 01A Opening Remarks
Location: Grand Ballroom (Upper Level)
Jacqueline A. Bello, MD, FACR ASNR 2017 Program Chair/President-Elect

World Federation of Neuroradiology (WFNRS) Symposium
Neuroradiologicum (SNR) XXI Remarks
Wan-Yuo Guo, MD, PhD

8:05am – 9:05am Streaming Session 02A Monday Morning SAM – Pediatrics
– Audience Response (AR) Self-Assessment Module (SAM)
Location: Grand Ballroom (Upper Level)
Moderator: Tina Young Pouissant, MD

8:05am – 8:25am Recognizing Malformation of Cortical Development
Julie Hurteau-Miller, MD

8:25am – 8:45am Phakomatoses from Molecules to Morphology
Mai-Lan Ho, MD

8:45am – 9:05am SAM Questions & Answers

9:05am – 10:30am Special Session: Taking the Lead!
Location: Grand Ballroom (Upper Level)
Introduction: Jacqueline A. Bello, MD, FACR

9:05am – 10:05am Keynote Speaker: AMA and the Future of Healthcare
James Madara, MD, CEO and Executive Vice President, American Medical Association (AMA)

Introduction: Howard A. Rowley, MD

10:10am – 10:30am Strategies of the ASNR
Mary Beth Hepp, ASNR Executive Director

10:30am – 11:00am Morning Beverage Break
Location: Hall A (Lower Level)
Monday, April 24, 2017

11:00am – 12:15pm  **Session 04A**  Special Session: Subspecialty & Regional Society Papers, Cornelius G. Dyke Memorial Award, The Foundation of the ASNR Papers  
**Location:** Grand Ballroom (Upper Level)  
**Moderators:** Howard A. Rowley, MD; Pina C. Sanelli, MD, MPH, FACR

11:00am – 11:05am  
Awards Announcements

11:05am – 11:15am  
Norman E. Leeds Award (ENRS)-Spectral Dual Energy CT Texture Analysis for the Prediction of p16 and Nodal Status in Head & Neck Squamous Cell Carcinoma  
**James W.M. Alexander, MD**

11:15am – 11:25am  
Stephen A. Kieffer Award-Best Mentor Paper (ENRS)-Models Using Clinical and Radiological Features to Predict Likelihood of Human Papillomavirus-Driven Oropharyngeal Carcinoma  
**Michael W. Chan, MD**

11:25am – 11:35am  
Louis A. Gilula, MD Mentor Award (ASSR) — Spine Numbering: Getting on Your Nerves  
**Miriam Peckham, MD**

11:35am – 11:45am  
Gabriel H. Wilson Award (WNRS)-Assessment of Blood Flow in Skull Base Meningioma Using Arterial Spin Labeling  
**Andrew J. Sung, MD**

11:45am – 11:55am  
Research Grant Award Winner  
**Seena Dehkharghani, MD**

11:55am – 12:05pm  
Radiologist-In-Training Award (ASHNR) — Radiomics Model For Volumetric MRI High Order Texture Analysis is for Pre-Treatment Stratification of Patients with Nasopharyngeal Carcinoma  
**Jaykumar Nair, MD**

12:05pm – 12:15pm  
2017 Cornelius G. Dyke Memorial Award — Multi-Center Study Finds Postoperative Residual Non-Enhancing Component of Glioblastoma as a New Determinant of Patient Outcome  
**Aikaterini Kotrotsou, PhD**

11:00am – 12:15pm  **Session 04B**  PARALLEL PAPER SESSION: Spine Imaging: Trauma and Tools You Can Use  
**Location:** Room 202 – (Upper Level)  
**Moderators:** Gordon K. Sze, MD, FACR; Lubdha M. Shah, MD

11:00am – 12:15pm  **Session 04C**  PARALLEL PAPER SESSION: Crossroads in Neuroradiology: Progress in Practice  
**Location:** Room 103 – (Main Level)  
**Moderators:** David J. Seidenwurm, MD, FACR; Amy L. Kotsenas, MD

11:00am – 12:15pm  **Session 04D**  PARALLEL PAPER SESSION: Pediatric Neuroradiology: Venturing into Vascular Territory  
**Location:** Room 104A – (Main Level)  
**Moderators:** Nancy K. Rollins, MD; David M. Mirsky, MD
Monday, April 24, 2017

11:00am – 12:15pm
**Session 04E** PARALLEL PAPER SESSION: NeuroInterventional: “From A to V”
Location: Room 104B – (Main Level)
Moderators: Michele H. Johnson, MD, FACR; Richard L. Zampolin, MD

11:00am – 12:15pm
**Session 04F** PARALLEL PAPER SESSION – Excerpta – “Spine Prime Time”
Location: Room 104C – (Main Level)
Moderators: Adam E. Flanders, MD; Christie Lincoln, MD

11:00am – 12:15pm
**Session 04G** PARALLEL PAPER SESSION: Acute Stroke: Tools for Triage... Omens for Outcome?
Location: Room 203AB – (Upper Level)
Moderators: R. Gilberto Gonzalez, MD, PhD; Kristine A. Blackham, MD

11:00am – 12:15pm
**Session 04H** PARALLEL PAPER SESSION – Turbo & Tour: Head and Neck and High Tech
Location: Turbo Talks – Room 102BC (Main Level)
Moderators: David R. DeLone, MD; Suresh K. Mukherji, MD, FCR, MBA

10:30am – 1:30pm Lunch Concession Stands
Locations: Hall A, Pacific Cafe, Promenade Starbucks, Grand Ballroom Foyer

12:30pm – 1:15pm Gadolinium Deposition – Update and Perspectives
Location: Grand Ballroom (Upper Level)
Intracranial Gadolinium Deposition: Much Ado about Nothing?
Robert J. McDonald, MD, PhD
Panel Discussion

1:30pm – 3:00pm **Session 05A** SNIS Programming: Best Practices in Diagnosis of Emergent Large Vessel Occlusion (ELVO) in Stroke Patients
Audience Response (AR) Self-Assessment Module (SAM)
Location: Grand Ballroom (Upper Level)
Moderator: Blaise W. Baxter, MD

1:30pm – 1:45pm Get Ahead of Stroke Campaign — “Don’t Strike Out for Stroke” An Opportunity for Societal Collaboration to Improve Stroke Care
Blaise W. Baxter, MD

1:45pm – 2:00pm Best Imaging Strategy for Selecting ELVO Patients for Endovascular Therapy-ASPECTS/CTA Collateral Score
Mayank Goyal, MD, FRCPC

2:00pm – 2:15pm Best Imaging Strategy for Selecting ELVO Patients for Endovascular Therapy-CT Perfusion
Greg W. Albers, MD
Monday, April 24, 2017

1:30pm – 3:00pm  **Session 05A**  (CONTINUED)

2:15pm – 2:30pm  Best Imaging Strategy for Selecting ELVO Patients for Endovascular Therapy-MRI-DWI
Albert Yoo, MD, PhD

2:30pm – 2:45pm  SAM Questions and Answers

2:45pm – 3:00pm  Debate/Discussion on Best Imaging Patient Selection Strategy

1:30pm – 3:00pm  **Session 05B**  ASFNR Programming: New Platforms for Functional Neuroimaging

  Location: Room 202 – (Upper Level)
  Moderators: Gaurang V. Shah, MD; Erik H. Middlebrooks, MD

1:30pm – 2:00pm  Ultra-high Field MRI: A New Window on Brain Function
Keith R. Thulborn, MD, PhD

2:00pm – 2:30pm  Compact 3T MRI Scanner with High Performance Gradients: Initial Experience
Mai-Lan Ho, MD

2:30pm – 3:00pm  Accurate Cerebrovascular Reactivity Imaging with MR Compatible CO₂ Delivery Systems
David J. Mikulis, MD, FRCPC

1:30pm – 3:00pm  **Session 05C**  ASSR Programming: Vertebral Augmentation

  Location: Room 103 – (Main Level)
  Moderators: Orlando Ortiz, MD, MBA, FACR; Gregg H. Zoarski, MD

1:30pm – 1:35pm  History of Vertebroplasty and the ASNR
Gregg H. Zoarski, MD

1:35pm – 1:55pm  Augmentation Data Review
Ronil V. Chandra, MBBS, FRANZCR

1:55pm – 2:15pm  Understanding Placebo and Cognitive Dissonance
David F. Kallmes, MD

2:15pm – 2:35pm  Oncology, Trauma and Devices
Allan L. Brook, MD, FSIR

2:35pm – 2:55pm  Future Directions: Where Do We Go from Here?
John D. Barr, MD, FACR, FSIR, FAHA

2:55pm – 6:00pm  Discussion

1:30pm – 3:00pm  **Session 05F**  Healthcare Policy Programming: Value Matters in Health Policy

  Location: Room 104C – (Main Level)
  Moderators: John E. Jordan, MD; Raymond K. Tu, MD, FACR

1:30pm – 1:55pm  Radiologists’ Initiatives and Services for Creating Value — Value Matters
Michael Brant-Zawadzki, MD
Monday, April 24, 2017

1:30pm – 3:00pm  
**Session 05F**  
(CONTINUED)

1:55pm – 2:20pm  
Marketing Value from the Radiologist’s Perspective  
*Frank J. Lexa, VII, MD*

2:20pm – 2:45pm  
Value Perspectives and Controversies: A Closer Look  
*John E. Jordan, MD*

2:45pm – 3:00pm  
Questions and Answers

3:00pm – 3:30pm  
Afternoon Beverage Break  
Location: Hall A (Lower Level)

3:30pm – 4:45pm  
**Session 06A**  
PARALLEL PAPER SESSION:  
Neurointerventional: Acute Stroke Treatment – Timeline and Technique  
Location: Grand Ballroom (Upper Level)  
*Moderators Steven W. Hetts, MD; David D. Pasquale, MD*

3:30pm – 4:45pm  
**Session 06B**  
PARALLEL PAPER SESSION: Practical Points in Diagnosis – Vascular Spine and CSF Imaging  
Location: Room 202 – (Upper Level)  
*Moderators: Donatella Tampieri, MD; Kelly K. Koeller, MD*

3:30pm – 4:45pm  
**Session 06C**  
PARALLEL PAPER SESSION: Pediatric Neuroradiology: Early Brain Imaging and Injury  
Location: Room 103 – (Main Level)  
*Moderators: Gilbert Vezina, MD; Aylin Tekes-Brady, MD*

3:30pm – 4:45pm  
**Session 06D**  
Advanced Imaging Programming: Neuroimaging Technologies of Tomorrow... Today!  
Location: Room 104A – (Main Level)  
*Moderator: Timothy P.L. Roberts, PhD*

3:30pm – 3:55pm  
Combined pH-sensitive CEST Imaging and DKI in Acute Stroke  
*Phillip Zhe Sun, PhD*

3:55pm – 4:20pm  
Dual PET/MRI: A Game Changer?  
*Rajan Jain, MD*

4:20pm – 4:45pm  
MRS of 2HG: What the Hype is About  
*Changho Choi, PhD*

3:30pm – 4:45pm  
**Session 06E**  
PARALLEL PAPER SESSION – Excerpta – “A Magical Mystery Tour”  
Location: Room 104B – (Main Level)  
*Moderators: Chip Truwit, MD; Shira E. Slasky, MD*
Monday, April 24, 2017

3:30pm – 4:45pm  
**Session 06F** PARALLEL PAPER SESSION: Acute Stroke Management Decisions: Answers from Advanced Imaging?  
*Location: Room 104C – (Main Level)*  
*Moderators: Pamela W. Schaefer, MD; Max Wintermark, MD*

3:30pm – 4:45pm  
**Session 06G** PARALLEL PAPER SESSION: Tracking Tumors: Meningiomas and More!  
*Location: Room 203AB – (Upper Level)*  
*Moderators: Andrei I. Holodny, MD; Alexander M. McKinney, IV, MD*

3:30pm – 4:45pm  
**Session 06H** PARALLEL PAPER SESSION – Turbo & Tour: Evaluating Headaches…and Avoiding Them in Practice!  
*Location: Turbo Talks – Room 102BC (Main Level)*  
*Moderators: Susan Palasis, MD; Franz J. Wippold, II, MD*

5:00pm – 6:30pm  
**Session 07A** SNIS Programming: Best Practices in Delivery of Endovascular Treatment for Emergent Occlusion (ELVO) Stroke Patients-Improving Systems of Care  
*Location: Grand Ballroom (Upper Level)*  
*Moderators: Allan L. Brook, MD, FSIR; Joshua A. Hirsch, MD, FACR, FSIR*

5:00pm – 5:20pm  
Update on Pre-Hospital Stroke Screening Tools Applied by EMS to Recognize ELVO Patients  
*Michael Chen, MD*

5:20pm – 5:40pm  
EMS Protocols  
*Ryan A. McTaggart, MD*

5:40pm – 6:00pm  
Systems of Care Efficiency and Inter-hospital Transfer Delays in the STRATIS Registry  
*Michael T. Froehler, MD, PhD*

6:00pm – 6:20pm  
Impact of Mobile Stroke Units  
*Gabor Toth, MD*

6:20pm – 6:30pm  
Questions

5:00pm – 6:30pm  
**Session 07B** ASSR Programming: The Traumatized Spine  
*Location: Room 202 – (Upper Level)*  
*Moderators: Robert M. Quencer, MD; Shalini Mukhi, MD*

5:00pm – 5:20pm  
Athletic Injuries of the Spine  
*Blake A. Johnson, MD, FACR*

5:20pm – 5:40pm  
Unique Features of the Traumatized Developing Spine  
*Erin Simon Schwartz, MD*

5:40pm – 6:00pm  
Clearing the Adult C-Spine on CT and MRI  
*Lubda M. Shah, MD*

6:00pm – 6:20pm  
Cervical Vascular Injury  
*Allison M. Grayev, MD*

6:20pm – 6:30pm  
Discussion
Monday, April 24, 2017

5:00pm – 6:30pm  Session 07C  
ASFNR Programming: The Clinical Anatomy of Functional Imaging Audience Response (AR) Self-Assessment Module (SAM)

Location: Room 103 – (Main Level)
Moderators: Asim Mian, MD; Vincent P. Mathews, MD

5:00pm – 5:25pm  Advanced Functional Anatomy for BOLD Pre-surgical Mapping
David Black, MD

5:25pm – 5:50pm  Identifying Resting State Networks: The Default Mode and Beyond
Haris Sair, MD

5:50pm – 6:15pm  DTI White Matter Anatomy with Clinical Correlates
Aaron S. Field, MD, PhD

6:15pm – 6:30pm  SAM Questions and Answers

5:00pm – 6:30pm  Session 07D  
Canadian Session: Cerebrovascular Disease

Location: Room 104A – (Main Level)
Moderators: William D. Miller, MD, FRCPC; Carlos H. Torres, MD, FRCPC

5:00pm – 5:05pm  Introduction CAR
William D. Miller, MD, FRCPC

5:05pm – 5:25pm  Cerebrovascular Reserve and Dementia
David J. Mikulis, MD, FRCPC

5:25pm – 5:45pm  Stroke Imaging in Light of All the New Evidence
Mayank Goyal, MD, FRCPC

5:45pm – 6:05pm  Impact of Protocol Design on Applicability of Clinical Trial Results: The Case of the Thrombectomy in Acute Stroke Studies
Daniel Roy, MD, FRCPC

6:05pm – 6:25pm  Unusual Cerebral Embolism
Carlos H. Torres, MD, FRCPC

5:00pm – 6:30pm  Session 07F  
Study Group: Clinical Translation of Functional and Diffusion MRI (Non-CME)

Location: Room 104C – (Main Level)

6:30pm - 8:00pm  Annual Meeting Reception with Technical Exhibitors
Location: Hall A (Lower Level)
Tuesday, April 25, 2017

6:00am – 8:30am  Breakfast Concession Stands  
Locations: Pacific Cafe, Promenade Starbucks, Breakfast Bar, Grand Ballroom Foyer

7:15am – 7:55am  How-To Session – Siemens Healthineers  
Location: Grand Ballroom (Upper Level)

8:00am – 9:00am  Streaming Session 08A  
Tuesday Morning SAM – Head & Neck – Audience Response (AR) Self-Assessment Module (SAM)  
Location: Grand Ballroom (Upper Level)  
Moderator: Rihan Khan, MD

8:00am – 8:20am  Orbital Imaging: The ED Essentials  
John P. Karis, MD

8:20am – 8:40am  Temporal Bone: Looking Through the Third Window  
Ashok Srinivasan, MD

8:40am – 9:00am  Questions & Answers

9:00am – 9:50am  Session 09A  
Healthcare Policy Programming: Updates  
Location: Grand Ballroom (Upper Level)  
Moderator: Robert M. Barr, MD, FACR

9:00am – 9:50am  Gregory N. Nicola, MD

9:50am – 10:10am  Session 10A  
AJNR Report  
Location: Grand Ballroom (Upper Level)  
9:00 am – 9:50 am  Jeffrey S. Ross, MD

10:10am – 10:30am  Session 11A  
ASNR Annual Business Meeting  
Location: Grand Ballroom (Upper Level)

10:30am – 11:00am  Morning Beverage Break  
Location: Hall A (Lower Level)

11:00am – 12:00pm  Session 12A  
Special Session: “Meet the Pres”  
Location: Grand Ballroom (Upper Level)  
Moderator: Jacqueline A. Bello, MD, FACR

ASNR Past Presidents will present material they’ve written / taught that is no longer true and things they’ve done that we no longer do... gain perspective from this interesting and informative session!
Tuesday, April 25, 2017

**10:30am – 1:30pm**  
**Lunch Concession Stands**  
Locations: Hall A, Pacific Cafe, Promenade Starbucks, Grand Ballroom Foyer

**12:30pm – 1:15pm**  
**How-To Session – Bracco Diagnostics Inc.**  
Location: Grand Ballroom (Upper Level)

**1:30pm – 3:00pm**  
**Session 13A**  
**ASSR Programming: Spine Oncology**  
**Audience Response (AR) Self-Assessment Module (SAM)**  
**Location: Grand Ballroom (Upper Level)**

- 1:30pm – 1:50pm  
  Spinal Metastatic Disease: What the Treatment Team Needs to Know  
  *Wende N. Gibbs, MD, MA*

- 1:50pm – 2:10pm  
  The Cutting Edge of Marrow Imaging  
  *Andrei I. Holodny, MD*

- 2:10pm – 2:30pm  
  Pediatric Spinal Malignancy  
  *Sarah S. Milla, MD*

- 2:30pm – 2:50pm  
  Oncology Bundles, The Spine Radiologist and Value Based Paradigms of the Future  
  *Gregory N. Nicola, MD*

- 2:50pm – 3:00pm  
  Panel Discussion

**1:30pm – 3:00pm**  
**Session 13B**  
**SNIS Programming: Healthcare Reforms: Impact on Neurointerventional Surgical Care**  
**Location: Room 202 – (Upper Level)**

- 1:30pm – 1:50pm  
  Transition to Value Based Care: ACA and MACRA Update  
  *Sameer A. Ansari, MD, PhD*

- 1:50pm – 2:10pm  
  NVQI Data Registry-The Importance of Having the Data  
  *Sameer A. Ansari, MD, PhD*

- 2:10pm – 2:30pm  
  Cost Consideration in Stroke Care Delivery  
  *Blaise W. Baxter, MD*

- 2:30pm – 2:50pm  
  A Six-Sigma Approach for Decreasing Door to Needle Times in Endovascular Stroke Therapy  
  *Ansaar A. Rai, MD*
Tuesday, April 25, 2017

1:30pm – 3:00pm  
**Session 13C**  
*Training Across the Continuum*  
**Location:** Room 103 – (Main Level)  
**Moderators:** Rebecca S. Cornelius, MD, FACR; Leighton P. Mark, MD

1:30pm – 1:50pm  
Training/Certification Update-CAST  
*Philip M. Meyers, MD, FACR, FSIR, FAHA*

1:50pm – 2:10pm  
ABR Update-Certification Exam  
*Robert D. Zimmerman, MD, FACR*

2:10pm – 3:00pm  
Burnout  
*Frank J. Lexa, MD; James Y. Chen, MD*

1:30pm – 3:00pm  
**Session 13F**  
*SILAN (Sociedad Ibero Latino Americana de Neurorradiología Diagnóstica y Terapéutica) Programming: Spine Imaging*  
**Location:** Room 104C – (Main Level)  
**Moderators:** Carlos Torres, MD, FRCPC; Luisa Biscoito, MD

1:30pm – 1:50pm  
Advanced Imaging of the Spine and Spinal Cord  
*Maria Isabel Vargas, MD*

1:50pm – 2:10pm  
Update in Craniocervical Junction Trauma  
*Roy Riascos, MD*

2:10pm – 2:30pm  
Interventional Spine Injections in the Management of Post-Traumatic Cervical Spine Pain  
*Orlando Ortiz, MD, MBA, FACR*

2:30pm – 2:50pm  
Management and Diagnosis of Vascular Injuries in Cervical Trauma  
*Hugo Cuellar Saenz, MD*

2:50pm – 3:00pm  
Discussion

3:00pm – 3:30pm  
Afternoon Beverage Break  
**Location:** Hall A (Lower Level)

3:30pm – 4:45pm  
**Session 14A**  
*PARALLEL PAPER SESSION: Pediatric Neuroradiology: Infection and Inflammation... Information*  
**Location:** Grand Ballroom (Upper Level)  
**Moderators:** Kevin R. Moore, MD; TBD

3:30pm – 4:45pm  
**Session 14B**  
*PARALLEL PAPER SESSION: Vascular Issues and Interventional: Variety Show*  
**Location:** Room 202 – (Upper Level)  
**Moderators:** Arindam R. Chatterjee, MD; Amichai J. Erdfarb, MD

3:30pm – 4:45pm  
**Session 14C**  
*PARALLEL PAPER SESSION: Spine Imaging: Lesion Detection and Infection... Ready, Set, PET!*  
**Location:** Room 103 – (Main Level)  
**Moderators:** Edward P. Quigley, III, MD, PhD; E. Turgut Tali, MD
Tuesday, April 25, 2017

3:30pm – 4:45pm  **Session 14D**  PARALLEL PAPER SESSION: Stroke Management: Viable Outcomes for Vascular Occlusions
Location: Room 104A – (Main Level)
Moderators: Kristine A. Blackham, MD; Eric M. Nyberg, MD

3:30pm – 4:45pm  **Session 14E**  PARALLEL PAPER SESSION – Excerpta – “Brain Teasers”... Try to Untangle!
Location: Room 104B – (Main Level)
Moderators: Karen Ragland Cole, MD, MPH, MBA; Eric M. Spitzer, MD

3:30pm – 4:45pm  **Session 14F**  AOSNHR (Asian - Oceanian Society of Neuroradiology and Head & Neck Radiology) Session: Best of ASNR 2017
Location: Room 104C – (Main Level)
Moderators: Yukunori Korogi, MD; Kook-Jin Ahn, MD; Sandy CY Chen, MD

3:30pm – 3:55pm  4D Dynamic CTA in Acute Ischemic Stroke
Chul-Ho Sohn, MD

3:35pm – 4:20pm  3D Cine PC MRI vs CFD for Cerebral Aneurysms
Haruo Isoda, MD

4:20pm – 4:45pm  4D-DSA
Wan-Yuo Guo, MD, PhD

3:30pm – 4:45pm  **Session 14G**  PARALLEL PAPER SESSIONS: Advanced Imaging for Brain Tumors – Get Out in Front of Gliomas (and more!)
Location: Room 203AB – (Upper Level)
Moderators: Nikdokht Farid, MD; Michael U. Antonucci, MD

3:30pm – 4:45pm  **Session 14H**  PARALLEL PAPER SESSIONS – TURBO & TOUR: Stenosis, Thrombosis and Other Vascular Pathology... Finding It and Losing It!
Location: Turbo Talks – Room 102BC (Main Level)
Moderators: Philip M. Meyers, MD, FACR, FSIR, FAHA; John D. Barr, MD, FACR, FSIR, FAHA
Tuesday, April 25, 2017

**Session 15A**  
**Evidence Based Medicine Programming:**  
**Speed Journal Club to Review New Evidence in the Literature on Hot Topics in Neuroradiology**  
**Location:** Grand Ballroom (Upper Level)  
**Moderators:** Pina C. Sanelli, MD, MPH, FACR; Ajay Gupta, MD

- **5:00pm – 5:15pm** Brain  
  *Annette J. Johnson, MD, MS*
- **5:15pm – 5:30pm** Brain  
  *Jana Ivanidze, MD*
- **5:30pm – 5:45pm** Head & Neck  
  *Claudia F.E. Kirsch, MD*
- **5:45pm – 6:00pm** Pediatrics  
  *Arastoo Vossough, PhD, MD*
- **6:00pm – 6:15pm** Neuro-IR  
  *Michele H. Johnson, MD, FACP*
- **6:15pm – 6:30pm** Discussion

**Session 15B**  
**ASSR Programming: Advanced Imaging:**  
**The Latest and Greatest**  
**Location:** Room 202 – (Upper Level)  
**Moderators:** Otto Rapalino, MD; Amish H. Doshi, MD

- **5:00pm – 5:20pm** Advances in Spinal Cord Diffusion Imaging  
  *Mahmud Mossa-Basha, MD*
- **5:20pm – 5:40pm** Time-Resolved (4D) Spinal MRA  
  *Falgun H. Chokshi, MD*
- **5:40pm – 6:00pm** Dual-Energy CT of the Spine  
  *Rajiv Gupta, MD, PhD*
- **6:00pm – 6:20pm** MR Neurography of the Brachial and Lumbosacral Plexus  
  *Cynthia T. Chin, MD*

**Session 15C**  
**ASFNR Programming: Evidence Based Best Practices for Clinical Functional Imaging**  
**Location:** Room 103 – (Main Level)  
**Moderators:** Scott H. Faro, MD; Mohit Maheshwari, MD

- **5:00pm – 5:20pm** DSC Perfusion Imaging  
  *Jerrold Boxerman, MD, PhD*
- **5:20pm – 5:40pm** BOLD fMRI  
  *Andrei I. Holodny, MD*
- **5:40pm – 6:00pm** Diffusion Tensor Imaging  
  *Christopher G. Filippi, MD*
Tuesday, April 25, 2017

5:00pm – 6:30pm  **Session 15C** (CONTINUED)

6:00pm – 6:20pm  Functional Imaging in Children
Mohit-Maheshwari, MD

6:20pm – 6:30pm  Questions & Answers

5:00pm – 6:30pm  **Session 15D**
PARALLEL PAPER SESSION: Pediatric Neuroradiology: Brain Tumors Beware!
Location: Room 104A – (Main Level)
Moderators: Jill V. Hunter, MD; Chang Y. Ho, MD

5:00pm – 6:30pm  **Session 15E**
Young Professional Programming: Leadership (In collaboration with Radiology Leadership Institute)*
Location: Room 104B – (Main Level)
Moderator: Neil U. Lall, MD

5:00pm – 5:30pm  Getting Started in Leadership (RLI Credit*)
Frank J. Lexa, VII, MA, MBA

5:30pm – 6:00pm  Change Management (RLI Credit*)
Carolyn Cidis Meltzer, MD, FACR

6:00pm – 6:20pm  Professional Use of Social Media: Personal Branding and Networking (RLI Credit*)
Jennifer L. McCarty, MD

6:20pm – 6:30pm  Questions and Answers

5:00pm – 6:30pm  **Session 15F**
Study Group: Intracranial and Vessel Wall Imaging (Non-CME)
Location: Room 104C – (Main Level)

5:00pm – 6:30pm  **Session 15G**
PARALLEL PAPER SESSION: Vascular Overture – Getting to Know You
Location: Room 203AB – (Upper Level)
Moderators: Richard L. Zampolin, MD; TBD

5:00pm – 6:30pm  **Session 15H**
PARALLEL PAPER SESSION: Brain Tumor Imaging: Predicting Pathology, Monitoring Management
Location: Turbo Talks – Room 102BC (Main Level)
Moderators: Mark E. Mullins, MD, PhD; Pamela Nguyen, DO

* Radiology Leadership Institute (RLI) credit can be claimed by accessing https://radiologyleaders.wufoo.com/forms/z1cn4jsc0ghpbrq/
### Wednesday, April 26, 2017

#### 6:00am – 8:30am
**Breakfast Concession Stands**  
Locations: Pacific Cafe, Promenade Starbucks, Breakfast Bar, Grand Ballroom Foyer

#### 7:15am – 7:55am
**How-To Session – GE Healthcare**  
Location: Grand Ballroom (Upper Level)

#### 8:00am – 9:00am
**Streaming Session 16A**  
**Wednesday Morning SAM – Vascular**  
**– Audience Response (AR) Self-Assessment Module (SAM)**  
**Location:** Grand Ballroom (Upper Level)  
**Moderator:** David D. Pasquale, MD

8:00am – 8:40am  
Neurovascular Topics In The Endovascular Arena  
**Maksim Shapiro, MD**

8:40am – 9:00am  
Questions and Answers

#### 9:00am – 10:30am
**Session 17A**  
**ASPNR Programming: Making the Call: Abusive CNS Trauma**  
**Location:** Grand Ballroom (Upper Level)  
**Moderators:** Erin Simon Schwartz, MD; Nadja Kadom, MD

9:00am – 9:15am  
The Medicolegal Aspects of Abusive Head Trauma  
**Joelle A. Moreno, JD**

9:15am – 9:30am  
Brain and Spine Imaging in Suspected Child Abuse  
**Gilbert Vezina, MD**

9:30am – 9:45am  
Venous Injury and Abusive Head Trauma  
**Arabinda Choudhary, MD, MRCP**

9:45am – 10:00am  
Mimickers of Abusive Head Trauma  
**Chen Hoffman, MD (ESNR)**

10:00am – 10:30am  
Questions and Answers
### Session 17B: Evidence Based Medicine Programming: Measuring the Quality of MIPS Quality Measurements Audience Response (AR) Self-Assessment Module (SAM) (2017 – J. Arliss Pollock Memorial Lecture)

**Location:** Room 202 – (Upper Level)

**Moderator:** David J. Seidenwurm, MD, FACR

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:00am – 9:05am</td>
<td>Introduction and Presentation of J. Arliss Pollock Memorial Award</td>
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<tr>
<td>9:05am – 9:40am</td>
<td>Quality Metrics – Validity, Outcomes and Evidence</td>
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<td>R. Adams Dudley, MD, J. Arliss Pollock Memorial Award Recipient</td>
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<tr>
<td>9:40am – 9:55am</td>
<td>Methodology of Metrics Review and Endorsement Criteria</td>
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<td>David B. Hackney, MD, FACR</td>
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<td>9:55am – 10:10am</td>
<td>Challenges of Evidence Based Performance Measurement:</td>
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<td>View from the C-Suite</td>
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<td>Michael Brant-Zawadzki, MD</td>
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<td>10:10am – 10:25am</td>
<td>Payers’ Perspective of Performance Measurement and Quality Based</td>
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<td>Suresh K. Mukherji, MD, FACR, MBA</td>
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<tr>
<td>10:25am – 10:35am</td>
<td>Questions &amp; Answers</td>
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### Session 17C: CSI Programming: Structured Reporting: Pros and Cons

**Location:** Room 103 – (Main Level)

**Moderators:** John L. Go, MD, FACR; Annette J. Johnson, MD, MS

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:00am – 9:30am</td>
<td>Meaning What You Say — the RSNA/ACR Common Data Elements Project</td>
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<td>Adam E. Flanders, MD</td>
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<tr>
<td>9:30am – 10:00am</td>
<td>How Much is Too Much Information in Structured Reporting</td>
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<td>C. Douglas Phillips, MD, FACR</td>
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<td>10:00am – 10:30am</td>
<td>Enabling the Next-Generation Radiology Report:</td>
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<td>A Tale of Two Standards</td>
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<td>James Chen, MD</td>
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### Session 17D: ASNR/SNMMI (Society of Nuclear Medicine and Molecular Imaging) Collaborative Session

**Location:** Room 104A – (Main Level)

**Moderators:** Ilya M. Nasrallah, MD

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<th>Time</th>
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<tbody>
<tr>
<td>9:00am – 9:30am</td>
<td>Amyloid Imaging of Dementia</td>
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<td>Ilya M. Nasrallah, MD</td>
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<td>9:30am – 10:00am</td>
<td>SPECT Brain Imaging of TBI and PTSD</td>
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<td>Cyrus A. Raji, MD</td>
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<tr>
<td>10:00am – 10:30am</td>
<td>F-18 F-DOPA PET Imaging of Brain Tumors</td>
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<td>Christiaan W.J. Schiepers, MD, PhD</td>
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</tbody>
</table>
Wednesday, April 26, 2017

9:00am – 10:30am  **Session 17F**
ESNR (European Society of Neuroradiology)
Programming: Imaging Biomarker in Clinical Practice
Location: Room 104C – (Main Level)
Moderator: Alex Rovira, MD

9:00am – 9:25am
Imaging Biomarkers for Multicenter Trials in Glioblastoma
Whitney B. Pope, MD, PhD

9:25am – 9:50am
MR Imaging in Predicting and Monitoring Treatment Response in Multiple Sclerosis
Alex Rovira, MD

9:50am – 10:15am
To Measure is to Know: The Quest for Quantitative MRI Biomarkers in Neuroimaging
Paul M. Parizel, MD, PhD

10:15am – 10:30am
Discussion

10:30am – 11:00am
Morning Beverage Break
Location: Hall A (Lower Level)

11:00am – 12:15pm  **Session 18A**
PARALLEL PAPER SESSION: Head and Neck Imaging — Can You Hear Me Now?
Location: Grand Ballroom (Upper Level)
Moderators: Laurie A. Loevner, MD; Gul Moonis, MB, BS

11:00am – 12:15pm  **Session 18B**
PARALLEL PAPER SESSION: Pediatric Neuroradiology: Potpourri... a “Must See!”
Location: Room 202 – (Upper Level)
Moderators: Andrea Rossi, MD; Nicholas V. Stence, MD

11:00am – 12:15pm  **Session 18C**
PARALLEL PAPER SESSION: Imaging Points of Interest: Practical and Prescient
Location: Room 103 – (Main Level)
Moderators: Christopher P. Wood, MD; Rivka R. Colen, MD

11:00am – 12:15pm  **Session 18D**
PARALLEL PAPER SESSION: Brain Tumor Imaging: Here and On the Horizon
Location: Room 104A – (Main Level)
Moderators: Angela Lignelli, MD; Thomas C. Booth, MBBS, PhD

11:00am – 12:15pm  **Session 18E**
PARALLEL PAPER SESSION – Excerpta – Adult Brain Topics: “Real and Rare”... Really?
Location: Room 104B – (Main Level)
Moderators: Sana Ali, MD; Peter H. B. McCreight, MD, FACR
### Wednesday, April 26, 2017

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<thead>
<tr>
<th>Time</th>
<th>Session 18F</th>
<th>PARALLEL PAPER SESSION: TBI: Understanding “Undone” Location: Room 104C – (Main Level) Moderators: Greg G. Zaharchuk, MD, PhD; TBD</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00am – 12:15pm</td>
<td>PARALLEL PAPER SESSION: “Seizing” Opportunity Location: Room 203AB – (Upper Level) Moderators: Noriko Salamon, MD; TBD</td>
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<tr>
<td>11:00am – 12:15pm</td>
<td>PARALLEL PAPER SESSION – TURBO &amp; TOUR: Advanced Imaging: Now and Next Location: Turbo Talks – Room 102BC (Main Level) Moderators: Kirk M. Welker, MD; TBD</td>
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<td>10:30am – 1:30pm</td>
<td>Lunch Concession Stands Location: Hall A, Pacific Cafe, Promenade Starbucks, Grand Ballroom Foyer</td>
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<td>12:30pm – 1:15pm</td>
<td>How-To Session – Toshiba America Medical Systems, Inc. Location: Grand Ballroom (Upper Level)</td>
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<td>12:30pm – 1:30pm</td>
<td>American Society of Pediatric Neuroradiology (ASPNR) Annual Business Meeting (ASPNR members only) Location: Room 104A (Main Level)</td>
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<tr>
<td>1:30pm – 3:00pm</td>
<td>ASHNR Programming: Cased Based Approach to Head &amp; Neck Malignancies Audience Response (AR) Self-Assessment Module (SAM) Location: Grand Ballroom (Upper Level) Moderators: Eugene Yu, MD; Keivan Shifteh, MD</td>
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<td>1:30pm – 1:50pm</td>
<td>Nasopharyngeal Carcinoma Christine M. Glastonbury, MBBS</td>
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<td>1:50pm – 2:10pm</td>
<td>Oropharyngeal &amp; Laryngeal Cancer Richard H. Wiggins, III, MD</td>
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<td>2:10pm – 2:30pm</td>
<td>Sinonasal Malignancies Deborah R. Shatzkes, MD</td>
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<td>2:30pm – 2:50pm</td>
<td>Perineural Tumor Spread in Head and Neck Cancer Ilona Schmalfuss, MD</td>
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<tr>
<td>2:50pm – 3:00pm</td>
<td>SAM Questions &amp; Answers</td>
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Wednesday, April 26, 2017

1:30pm – 3:00pm  
**Session 19C**  
Evidence Based Medicine Programming: Incidental Findings in Neuroradiology – What is the Evidence? How Should We Deal with It?  
**Location:** Room 103 – (Main Level)  
**Moderators:** Yoshimi Anzai, MD, MPH; Jenny Hoang, MD

1:30pm – 1:35pm  
Overview of Incidental Findings in Neuroradiology  
*Yoshimi Anzai, MD, MPH*

1:35pm – 1:55pm  
Incidental Findings on Brain Imaging  
*J. Scott McNally, MD, PhD*

1:55pm – 2:15pm  
Incidental Findings on Neck Imaging  
*Jenny K. Hoang, MBBS*

2:15pm – 2:30pm  
Incidental Findings on Spine Imaging  
*Peter G. Kranz, MD*

2:30pm – 2:50pm  
Management of Incidental Findings  
*Marvin Bergsneider, MD*

2:50pm – 3:00pm  
Questions & Answers

1:30pm – 3:00pm  
**Session 19D**  
PARALLEL PAPER SESSION: Pediatric Neuroradiology: Clinical Development and Imaging Developments  
**Location:** Room 104A – (Main Level)  
**Moderators:** A. James Barkovich, MD; Sarah S. Milla, MD

1:30pm – 3:00pm  
**Session 19E**  
CSF/IHIWG (International Hydrocephalus Imaging Working Group) Programming: Chiari I and Syringomyelia  
**Location:** Room 104B – (Main Level)  
**Moderator:** Harold L. Rekate, MD

1:30pm – 1:50pm  
Chiari Malformation, How Many?  
*Bruno P. Soares, MD*

1:50pm – 2:10pm  
Aqueductal Flow Pre- and Po-stop  
*Ciari-Rajiv Bapuraj, MD & Frank Londy, RT*

2:10pm – 2:30pm  
Definition of Chiari I and Determining Success of Treatment  
*Harold L. Rekate, MD*

2:30pm – 3:30pm  
Questions & Answers

1:30pm – 3:00pm  
**Session 19F**  
PARALLEL PAPER SESSION: Spine Imaging: Pain and Procedures  
**Location:** Room 104C – (Main Level)  
**Moderators:** Orlando Ortiz, MD, MBA, FACR; TBD
# Wednesday, April 26, 2017

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Topic</th>
<th>Location</th>
<th>Moderators</th>
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<tr>
<td>1:30pm – 3:00pm</td>
<td>19G</td>
<td><strong>PARALLEL PAPER SESSION: Neuroimaging</strong> Clues, Reviews, and News to Use</td>
<td>Room 203AB – (Upper Level)</td>
<td>Warren Stringer, MD; TBD</td>
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<tr>
<td>1:30pm – 3:00pm</td>
<td>19H</td>
<td><strong>PARALLEL PAPER SESSION: Gd, Gd Everywhere... Cause for Pause, and Think!</strong></td>
<td>Turbo Talks – Room 102BC (Main Level)</td>
<td>Pamela W. Schaefer, MD; Franz J. Wippold, II, MD</td>
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<tr>
<td>3:00pm – 3:30pm</td>
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<td><strong>Afternoon Beverage Break</strong></td>
<td>Hall A (Lower Level)</td>
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<tr>
<td>3:30pm – 4:45pm</td>
<td>20A</td>
<td><strong>ASHNR Programming: Delivery: Value Added Head and Neck Imaging:</strong></td>
<td>Grand Ballroom (Upper Level)</td>
<td>Rebecca S. Cornelius, MD, FACR; Lawrence E. Ginsberg, MD</td>
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<tr>
<td>3:30pm – 4:45pm</td>
<td>20B</td>
<td><strong>PARALLEL PAPER SESSION: Fetal and Pediatric Imaging Feats: Way to Grow!</strong></td>
<td>Room 202 – (Upper Level)</td>
<td>Arastoo Vossough, MD, PhD</td>
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<td>3:30pm – 4:45pm</td>
<td>20C</td>
<td><strong>PARALLEL PAPER SESSION: Imaging of Cognitive Impairment – Not in the Know?</strong></td>
<td>Room 103 – (Main Level)</td>
<td>Jody L. Tanabe, MD; TBD</td>
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<tr>
<td>3:30pm – 4:45pm</td>
<td>20D</td>
<td><strong>PARALLEL PAPER SESSION: Imaging of MS – White Matter Matters!</strong></td>
<td>Room 104A – (Main Level)</td>
<td>Justin Honce, MD; TBD</td>
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<tr>
<td>3:30pm – 4:45pm</td>
<td>20E</td>
<td><strong>PARALLEL PAPER SESSION: Imaging of Headache, Across the Pressure Spectrum</strong></td>
<td>Room 104B – (Main Level)</td>
<td>William G. Bradley, Jr., MD, PhD; David F. Black, MD</td>
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Wednesday, April 26, 2017

3:30pm – 4:45pm  **Session 20F**  PARALLEL PAPER SESSION – Excerpta – Pediatric Problems...Can you Solve Them?  
Location: Room 104C – (Main Level)  
Moderators: V. Michelle Silvera, MD; Milard Yazdani, MD

3:30pm – 4:45pm  **Session 20G**  PARALLEL PAPER SESSION: Aneurysms: Search and Destroy Mission – to Find, Fix and Follow  
Location: Room 203AB – (Upper Level)  
Moderators: John D. Barr, MD, FACR, FSIR, FAHA; Beverly Aagaard-Kienitz, MD

3:30pm – 4:45pm  **Session 20H**  PARALLEL PAPER SESSION: Mixture of Interest  
Location: Turbo Talks – Room 102BC (Main Level)  
Moderators: Reza Forghani, MD, PhD; Laurie Sanchez, MD

5:00pm – 6:30pm  **Session 21A**  Pediatric Interesting Case Session Audience Response (AR)  
Location: Grand Ballroom (Upper Level)  
Moderators: Susan Palasis, MD; Laurence Eckel, MD  
Timothy N. Booth, MD  
Bruno P. Soares, MD  
V. Michelle Silvera, MD  
Laura L. Hayes, MD

5:00pm – 6:30pm  **Session 21B**  Neuroradiology Education  
Location: Room 202 – (Upper Level)  
Moderators: Mark E. Mullins, MD, PhD; Wende N. Gibbs, MD, MA

5:00pm – 5:20pm  Opportunities in Neuroradiology Education and Research: How to Get Started or Get More Involved  
Achala Vagal, MD

5:20pm – 5:40pm  Teaching Neuroradiology: The Trainee Point of View  
Susan Sotardi, MD

5:40pm – 6:00pm  Tools for Teaching: Apps, Audience Response Systems, Simulators, Gamification, etc  
Joshua P. Nickerson, MD

6:00pm – 6:20pm  Social Media and Neuroradiology: How to Use it for Education  
Jenny K. Hoang, MBBS

6:20pm – 6:30pm  Questions and Answers
Wednesday, April 26, 2017

5:00pm – 6:30pm  **Session 21C**  PARALLEL PAPER SESSION: Cancer of the Head and Neck: Reality Check – from the Rare, to the Response
Location: Room 103 – (Main Level)
Moderators: Nancy J. Fischbein, MD; Ashok Srinivason, MBBS

5:00pm – 6:30pm  **Session 21D**  PARALLEL PAPER SESSION: Aneurysm Treatment – Conversion to Diversion... When and Why?
Location: Room 104A – (Main Level)
Moderators: Sameer A. Ansari, MD, PhD; David D. Pasquale, MD

5:00pm – 6:30pm  **Session 21E**  PARALLEL PAPER SESSION: Cost-Effective Imaging in the Era of the Triple Aim
Location: Room 104B – (Main Level)
Moderators: Pina C. Sanelli, MD, MPH, FACR; Aaron R. Kamer, MD

5:00pm – 6:30pm  **Session 21F**  Study Group: Imaging Genomics (Non-CME)
Location: Room 104C – (Main Level)

5:00pm – 6:30pm  **Session 21G**  PARALLEL PAPER SESSION: More Aneurysm Management: Dealing with the Unruptured and Unknown
Location: Room 203AB – (Upper Level)
Moderator: Ajay Gupta, MD; Beverly Aagaard-Kienitz, MD

5:00pm – 6:30pm  **Session 21H**  PARALLEL PAPER SESSION: The Dissection Collection and CTA Today
Location: Turbo Talks – Room 102BC (Main Level)
Moderators: Christopher P. Wood, MD; TBD
Thursday, April 27, 2017

6:00am – 8:30am  Breakfast Concession Stands  
Locations: Pacific Cafe, Grand Ballroom Foyer

8:00am – 9:00am  **Session 22A**  Thursday Morning SAM – Spine – Audience Response (AR) Self-Assessment Module (SAM)  
Location: Grand Ballroom (Upper Level)  
Moderators: Wende N. Gibbs, MD, MA; TBD

8:00am – 8:25am  Post-Operative Spine  
Jeffrey S. Ross, MD

8:25am – 8:50am  Optimized Imaging in the Postoperative Spine (Reduction of Artifact on Reduction of CT and MR)  
Lawrence N. Tanenbaum, MD, FACR

8:50am – 9:00am  Questions and Answers

9:00am – 10:30am  **Session 23A**  ASHNR Programming: Diagnosis: Important Concepts in Head & Neck Cancer Imaging  
Location: Grand Ballroom (Upper Level)  
Moderators: Julie L. Bykowski, MD; Matthew Bobinski, MD, PhD

9:00am – 9:30am  Avoiding Errors in Head & Neck Cancer Imaging  
Lawrence E. Ginsberg, MD

9:30am – 10:00am  HPV and EBV Related Head & Neck Cancers  
Nancy J. Fischbein, MD

10:00am – 10:30am  EBV and Post-Transplant Lymphoproliferative Disorders  
Laurie A. Loevner, MD

9:00am – 10:30am  **Session 23B**  Artificial Intelligence: Ready for Prime Time  
Location: Room 202ABC – (Upper Level)  
Moderators: John L. Go, MD, FACP; Arun Krishnaraj, MD

9:00am – 9:30am  Introduction to AI and Machine Learning  
Richard H. Wiggins, III, MD

9:30am – 10:00am  AI Applications in Neuroimaging: Ready for Prime Time  
Michael H. Lev, MD, FAHA

10:00am – 10:30am  Deep Learning Applications of Computer Vision and Natural Language Processing in Neuroradiology  
Falgun H. Chokshi, MD, MS
Thursday, April 27, 2017

9:00am – 10:30am **Session 23C**  
**ASPNR Programming: The Present and Future of Pediatric Brain Tumor Neuroimaging**  
**Location:** Room 103 A/B/C – (Main Level)  
**Moderators:** Tina Young Pouissant, MD; Susan Palasis, MD

9:00am – 9:20am Molecular Classification of Primary Pediatric Brain Tumors  
*Tobey J. MacDonald, MD*

9:20am – 9:40am Radiogenomics of Pediatric Brain Tumors  
*Kristen W. Yeom, MD*

9:40am – 10:00am New WHO Classification: Diffuse Midline Gliomas  
*Zoltan Patay, MD, PhD*

10:00am – 10:20am MR Spectroscopy of Pediatric Brain Tumors: Metabolic and Molecular Correlates  
*Benita Tamrazi, MD*

10:20am – 10:30am Questions & Answers

9:00am – 10:30am **Session 23D**  
**CSF/IHIWG (International Hydrocephalus Imaging Working Group) Programming: Hydrocephalus**  
**Location:** Room 104A – (Main Level)  
**Moderator:** William G. Bradley, Jr., MD, PhD, FACR

9:00am – 9:20am Use of TimeSLIP and TimeSTAMP in Hydrocephalus  
*Meng Law, MD, MBBS, FRACR*

9:20am – 9:40am TimeSLIP in Pediatric Hydrocephalus  
*J. Gordon McComb, MD*

9:40am – 10:00am Deep White Matter Ischemia: The “Second Hit” in NPH and Late-Onset Aqueductal Stenosis  
*William G. Bradley, Jr., MD, PhD, FACR*

10:00am – 10:30am Questions & Answers

9:00am – 10:30am **Session 23E**  
**PARALLEL PAPER SESSION: Imaging Issues, Quality and Safety: Making the Most of Dose, and More!**  
**Location:** Room 104B – (Main Level)  
**Moderators:** Nadja Karlom, MD; TBD

9:00am – 10:30am **Session 23F**  
**PARALLEL PAPER SESSION: MR and CT Perfusion Imaging: Going with the Flow and What We Know**  
**Location:** Room 104C – (Main Level)  
**Moderators:** Achala Vagal, MD; TBD

9:00am – 10:30am **Session 23G**  
**PARALLEL PAPER SESSION: Advanced Imaging for Best Assessment**  
**Location:** Room 203AB – (Upper Level)  
**Moderators:** TBD; Adam E. Flanders, MD
Thursday, April 27, 2017

9:00am – 10:30am  **Session 23H**  PARALLEL PAPER SESSION: Stroke: Core Concepts, Clots, and Collaterals  
**Location:** Turbo Talks – Room 102BC (Main Level)  
*Moderators: Michele H. Johnson, MD, FACR; Kambiz Nael, MD*

10:30am – 11:00am  **Morning Beverage Break**  
**Location:** 104 Foyer (Mail Level)

11:00am – 12:15pm  **Session 24A**  Young Professional Programming: Head and Neck Diseases and Diagnoses  
**Location:** Grand Ballroom (Upper Level)  
*Moderator: Nancy Benedetti, MD*

  11:00am – 11:30am  Trigeminal Neuralgia  
*Richard H. Wiggins, III, MD*

  11:30am – 12:00pm  Vision Loss and Diplopia  
*Jenny K. Hoang, MBBS*

12:00pm – 12:15pm  Discussion

11:00am – 12:15pm  **Session 24B**  Neuroradiology Aspects of Emerging and Re-emerging Infectious Diseases  
**Location:** Room 202 – (Upper Level)  
*Moderators: Meng Law, MD, MBBS, FRACR; Whitney B. Pope, MD, PhD*

  11:00am – 11:25am  Zika Virus Infection in Children  
*A. James Barkovich, MD*

  11:25am – 11:50am  Arbovirus Infections in Adults: Zika Virus and Beyond  
*Luiz Celso Hygino da Cruz, Jr, MD, PhD*

  11:50am – 12:15pm  Re-emerging Infections Diseases in Developing Countries  
*Renato Hoffman Nunes, MD*

11:00am – 12:15pm  **Session 24C**  PARALLEL PAPER SESSION: Head and Neck Topics: Take the Tour!  
**Location:** Room 103 – (Main Level)  
*Moderators: Nancy Fishbein, MD; TBD*

11:00am – 12:15pm  **Session 24D**  PARALLEL PAPER SESSION: Pediatric Neuroradiology: Exploring Beneath the Surface  
**Location:** Room 104A – (Main Level)  
*Moderator: Timothy N. Booth, MD; TBD*

11:00am – 12:15pm  **Session 24E**  PARALLEL PAPER SESSION: Glial Tumors – A Deep Dive  
**Location:** Room 104B – (Main Level)  
*Moderators: Nikdokht Farid, MD*
Thursday, April 27, 2017

11:00am – 12:15pm  **Session 24F**  PARALLEL PAPER SESSION – Excerpta – Understanding the Adult Brain - Unexpected, Unusual and Unbelievable!
Location: Room 104C – (Main Level)
Moderators: Tomas E. Uribe, MD; Karen Ragland Cole, MD, MPH, MBA

11:00am – 12:15pm  **Session 24G**  PARALLEL PAPER SESSION: Metastases – Imaging Makes a Difference
Location: Room 203AB – (Upper Level)
Moderators: TBD

11:00am – 12:15pm  **Session 24H**  PARALLEL PAPER SESSION: Keeping Track of Tracts
Location: Turbo Talks – Room 102BC (Main Level)
Moderators: TBD

10:30am – 1:30pm  Lunch Concession Stands
Locations: Pacific Cafe, Grand Ballroom Foyer

12:30pm – 1:15pm  How-To Session – Philips Healthcare
Location: Grand Ballroom (Upper Level)

1:30pm – 3:00pm  **Session 25A**  ASPNR Programming: Current Concepts in Inflammatory and Infectious CNS Disorders of Childhood Audience Response (AR) Self-Assessment Module (SAM)
Location: Grand Ballroom (Upper Level)
Moderator: Aylin Tekes, MD

1:30pm – 1:50pm  Auto-immune Encephalitis
*Manohar M. Shroff, MD, DABR, FRCPC*

1:50pm – 2:10pm  Infectious Encephalitis
*Nilesh K. Desai, MD*

2:10pm – 2:30pm  Imaging Spectrum of Pediatric CNS Vasculitis
*Nicholas V. Stence, MD*

2:30pm – 2:50pm  Neuroimaging Evaluation of Myelitis in Children
*Andrea Rossi, MD (ESNR)*

2:50pm – 3:00pm  Questions and Answers
1:30pm – 3:00pm  
**Session 25B**  
Overdiagnosis Programming:  
A Challenge to Change  
Location: Room 202 – (Upper Level)  
Moderator: Suyash Mohan, MD

1:30pm – 2:00pm  
Overdiagnosis and Neuroradiologists: An Overview  
Suyash Mohan, MD

2:00pm – 2:30pm  
Trade-Offs in Defining Disease: Examples in Neuroradiology  
Jeffrey B. Ware, MD

2:30pm – 3:00pm  
It’s All in the ‘Name’ – Nomenclature and the Future Solutions  
Ian Amber, MD

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1:30pm – 3:00pm  
**Session 25C**  
PARALLEL PAPER SESSION: Head and Neck:  
Nodal Disease and Other Hot Topics  
Location: Room 103 – (Main Level)  
Moderators: Daniel A. Krieger, MD; TBD

1:30pm – 3:00pm  
**Session 25D**  
PARALLEL PAPER SESSION: Good Techniques in Diagnosing Bad Tumors  
Location: Room 104A – (Main Level)  
Moderators: Franklin Moser, MD; Aaron Kamer, MD

1:30pm – 3:00pm  
**Session 25E**  
PARALLEL PAPER SESSION: Finding the Fun in Functional Imaging  
Location: Room 104B – (Main Level)  
Moderators: Kirk M. Welker, MD; TBD

1:30pm – 3:00pm  
**Session 25F**  
PARALLEL PAPER SESSION – Excerpta-Head and Neck Puzzles to Ponder  
Location: Room 104C – (Main Level)  
Moderators: Patricia A. Hudgins, MD, FACR; TBD

1:30pm – 3:00pm  
**Session 25G**  
PARALLEL PAPER SESSION: MS: Making a Fair Call – Flair for Flare? But That’s Not All!  
Location: Room 203AB – (Upper Level)  
Moderators: Christie Lincoln, MD; TBD

1:30pm – 3:00pm  
**Session 25H**  
PARALLEL PAPER SESSION: Avoiding Strikes in Stroke... Can We Improve Our Batting Average?  
Location: Turbo Talks – Room 102BC (Main Level)  
Moderators: Michele H. Johnson, MD, FACR; TBD
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<tr>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>11:00 AM</td>
<td><strong>Spine Imaging: Trauma and Tools You Can Use</strong></td>
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<tr>
<td><strong>O-01</strong></td>
<td>5-Minute Protocol of Lumbar Spine MRI — Initial Experience in a Clinical Setting With SMS TSE</td>
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<tr>
<td><strong>O-02</strong></td>
<td>Multimodal Volumetric T2 — Weighted Spine Imaging With Uniform Fat and Fluid Suppression and 3D Myelography in a Single Acquisition</td>
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<td><strong>O-03</strong></td>
<td>Pediatric Head &amp; Neck Injury: Statistical Analysis of Multiple Factors Associated With Blunt Cerebrovascular Injury on CTA</td>
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<td><strong>O-04</strong></td>
<td>Blunt Cerebrovascular Injury in Patients With Cervical Spine Fractures</td>
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<td><strong>O-05</strong></td>
<td>High Rates of Intrareader Variability in Grade 1 Blunt Cerebrovascular Injury (BCVI)</td>
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<td><strong>O-06</strong></td>
<td>Cost-Effectiveness of MRI in Cervical Spine Clearance of Alert Blunt Trauma Patients</td>
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<tr>
<td><strong>O-07</strong></td>
<td>Cost-Effectiveness of MRI in Cervical Spine Clearance of Obtunded Blunt Trauma Patients</td>
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<td><strong>O-08</strong></td>
<td>Screening Cervical Spine CT in the Emergency Department — Phase Four: Evaluating the Role of Clinical Decision Support — Results of a Prospective Practice Quality Improvement (PQI) Initiative</td>
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<tr>
<td><strong>O-09</strong></td>
<td>Utility of Four-Dimensional Computed Tomography (4DCT) in Assessing Cervical Spine Instability</td>
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<tr>
<td>11:00 AM</td>
<td><strong>Neuroradiology: a 24/7 Subspecialty!</strong></td>
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<tr>
<td><strong>O-13</strong></td>
<td>Non-Interpretive, Value-Add Tasks During Solo Overnight Coverage in Academic Emergency Neuroradiology</td>
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<tr>
<td><strong>O-14</strong></td>
<td>Clinical Access to Reports and Imaging: The Value of Radiology</td>
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<tr>
<td><strong>O-15</strong></td>
<td>Time-Activity Evaluation in Neuroradiology: A Follow-Up Study</td>
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<tr>
<td><strong>O-16</strong></td>
<td>Virtual Reality Modules for Neuroradiology</td>
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<tr>
<td>11:00 AM</td>
<td><strong>Pediatrics Neuroradiology: Venturing into Vascular Territory</strong></td>
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<td><strong>O-19</strong></td>
<td>Screening of Intracranial Aneurysms in Children and Young Adults With Familial History of Intracranial Aneurysms or With Personal or Familial History of Polycystic Kidney Disease</td>
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<tr>
<td><strong>O-21</strong></td>
<td>Idiopathic Neonatal Leptomeningeal Hemorrhage</td>
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<td><strong>O-22</strong></td>
<td>Exposure of Cardiopulmonary Bypass is Associated With Presence of Cerebral Microhemorrhage Among Pediatric Patients With Cardiac Transplantation</td>
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<td><strong>O-23</strong></td>
<td>Predictive Outcome Modeling of Out-of-Hospital Pediatric Cardiac Arrest Using Neuroimaging-Guided Supervised Machine Learning Analysis</td>
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<td><strong>O-24</strong></td>
<td>Dynamic Arterial Compression in Pediatric Vertebral Arterial Dissection: Diagnosis and Management</td>
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<td><strong>O-25</strong></td>
<td>Age-Related Changes in the Integrity of the Circle of Willis</td>
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<td><strong>O-26</strong></td>
<td>Arterial Spin-Labeled Perfusion for PHACE Syndrome</td>
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<tr>
<td><strong>O-27</strong></td>
<td>Craniopagus: Role of Neuroradiology in Defining the Challenges and Designing the Treatment</td>
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PARALLEL SCIENTIFIC PAPER SESSIONS AT-A-GLANCE

**Monday**
Room 104B (Main Level)

**SESSION 04E**

**Neurointerventional: ‘From A to V’**

- **O-29** • 11:08:00 AM • Utility of Routine Screening with Neuroimaging in Patients with Hereditary Hemorrhagic Telangiectasia
- **O-30** • 11:16:00 AM • Utility of Intra-Arterial Cone Beam CT Angiography in Detection of Intracranial Micro-Arteriovenous Malformations
- **O-31** • 11:24:00 AM • Quantification of Arterial Velocity in Cerebral Arteriovenous Malformation by Four-Dimensional Digital Subtraction Angiography
- **O-32** • 11:32:00 AM • Ruptured Feeding Artery Aneurysms in Pediatric Cerebral Arteriovenous Malformations
- **O-33** • 11:40:00 AM • Comparison of Pre-Operative Embolization & Surgical Resection vs Surgical Resection Alone for Treatment of Low Grade Pediatric Cerebral Arteriovenous Malformations
- **O-34** • 11:48:00 AM • Early Re-bleeding After Brain Arteriovenous Malformation Rupture: Incidence and Risk Factors
- **O-35** • 11:56:00 AM • Efficacy of the Yakes AVM Classification System that Directs Endovascular Therapies Accurately
- **O-36** • 12:04:00 PM • Intracranial Dural Arteriovenous Fistulae: An Institutional Experience and Proposal of a New Anatomico-Functional Classification System

**Monday**
Room 104C (Main Level)

**SESSION 04F**

**‘Spine Prime Time’**

- **E-01** • 11:00:00 AM • Lumbar Disc Sequestration With Posterolateral Epidural Migration After Trauma, Mimicking an Epidural Hematoma: Review of Literature and Case Report with Pathologic Correlation
- **E-02** • 11:04:00 AM • Disc/Osteophyte Induced Dural Tears and CSF Leaks: Spectrum of Imaging Findings
- **E-03** • 11:08:00 AM • Intradural Extramedullary Gouty Tophi: A Rare Cause of Spinal Cord Compression
PARALLEL SCIENTIFIC PAPER SESSIONS AT-A-GLANCE

Monday
Room 203AB (Upper Level)

SESSION 04G

Acute Stroke: Tools for Triage...Omens for Outcome?

O-37 • 11:00:00 AM • The CTA Rim Sign: Soft Plaque and Adventitial Calcification Predicts Stroke

O-39 • 11:08:00 AM • CT Based Imaging of Voxel Wise Lesion Water Uptake in Ischemic Brain: Relationship Between Density and Direct Volumetry

O-38 • 11:16:00 AM • Prediction of Malignant Middle Cerebral Artery Infarction Using Computed Tomography-Based Quantification of Net Water Uptake Per Time

O-40 • 11:24:00 AM • Proof of Principle: Using Dual Energy CT Iodine Mapping to Visualize Acute Cerebral Ischemia in Large Vessel Occlusion

O-41 • 11:32:00 AM • Color Coded Time Index of Collaterals Improves Predictive Power of Good Outcome in Acute Ischemic Stroke

O-42 • 11:40:00 AM • Multiparametric CT Perfusion Model for Prediction of Infarct Core: A Voxel-Based Regression Analysis Using Machine Learning

O-43 • 11:48:00 AM • Perfusion CT-Derived Permeability Surface Area in Predicting Hemorrhagic Transformation After Intravenous Thrombolysis in Acute Stroke

O-44 • 11:56:00 AM • Comparison of Multiphase CTA and CT Perfusion for Triage of Acute Ischemic Stroke: A Single Center’s Experience

O-45 • 12:04:00 PM • Influence of CT Ischemic Lesion Location on Functional Outcome Measured by the Modified Rankin Scale

Monday
Room 102BC (Main Level)

SESSION 04H

Head and Neck, and High Tech

T-01 • 11:00:00 AM • Clinical Characteristics can Differentiate Peritonsillar from Intratonsillar Abscesses: A Retrospective Imaging Study

T-02 • 11:03:00 AM • Foreign Body or Giant Cholesteatoma? A Case Report of a Cholesteatoma Not Resembling Known Imaging Appearance

T-03 • 11:06:00 AM • Treatment of Branchial Cleft Cyst Using Ethanol Ablation

T-04 • 11:09:00 AM • Diffusion-Weighted Imaging Using a Readout-Segmented, Multi Shot EPI Sequence at 3T Distinguishes Between Morphologically Differentiated and Undifferentiated Subtypes of Thyroid Carcinoma

T-05 • 11:12:00 AM • Multi-Modality, Multi-Material 3D Printing: Visualizing an Expansile Trigeminal Schwannoma Obliterating Meckel’s Cave and Foramen Oval At a Glance

T-06 • 11:15:00 AM • Dynamic Contrast Enhanced MRI to Differentiate Benign Versus Malignant Parotid Neoplasms Utilizing Golden-Angle Radial Sparse Parallel MRI

T-07 • 11:18:00 AM • A Retrospective DTI Study on the Effect of Proximity of Brain Tumor to Superior Longitudinal Fasciculus or Cingulum on Perioperative Language Outcomes

T-08 • 11:21:00 AM • Use and Radiological Interpretation of a Rapid-SWI Acquisition Based on the Wave-CAIPI Technology in a Clinical Setting

T-09 • 11:24:00 AM • Increased Speed and Soft-Tissue Contrast in Single-Shot Fast Spin Echo Imaging Utilizing Tailored Refocusing Flip Angles for Fast Brain MRI

T-10 • 11:27:00 AM • Ultrafast Brain MRI: Results of a 10-Minutes Brain Protocol With Contrast

T-11 • 11:30:00 AM • Preoperative and Postoperative Whole Brain Diffusion Tensor Tractography Quantification in Temporal Lobe Epilepsy

T-12 • 11:33:00 AM • Age Related Diffusion and Tractography Changes in Typically Developing Pediatric Cervical and Thoracic Spinal Cord

T-13 • 11:36:00 AM • Challenges in Interpretation of Pediatric Functional MRI Studies

T-14 • 11:39:00 AM • Case-In-Point: Role of Golden-Angle Radial Sparse Parallel MR Imaging (GRASP) in Identifying Tumor Recurrence in Brain Metastasis From Lung Adenocarcinoma Treated With Stereotactic Radiosurgery

Monday
Grand Ballroom (Upper Level)

SESSION 06A

Neurointerventional: Acute Stroke Treatment — Timeline and Technique

O-46 • 3:30:00 PM • Endovascular Thrombectomy and Medical Therapy Versus Medical Therapy Alone in Acute Stroke: a Randomized Care Trial
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<thead>
<tr>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>3:38:00 PM</td>
<td>Improving Time Metrics During Mechanical Thrombectomy: Use of Stroke Cart in Angiography Suite</td>
</tr>
<tr>
<td>3:46:00 PM</td>
<td>Benefits of Transbrachial Access For Carotid Artery Stenting with Guide-Sheaths Specifically Designed for Transbrachial Carotid Cannulation</td>
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<tr>
<td>3:54:00 PM</td>
<td>Clinical Outcome After Endovascular MCA Stroke Treatment is Independent of Exact Occlusion Site</td>
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<tr>
<td>4:02:00 PM</td>
<td>Use of Stroke Cart in Angiography Suite</td>
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<tr>
<td>4:09:00 PM</td>
<td>Benefits of Transbrachial Access For Carotid Artery Stenting with Guide-Sheaths Specifically Designed for Transbrachial Carotid Cannulation</td>
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<tr>
<td>4:18:00 PM</td>
<td>The Penumbra Aspiration System in Acute Ischemic Stroke: ACE 64 versus ACE 68 — Does it Change the Outcome?</td>
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<tr>
<td>4:26:00 PM</td>
<td>The Use of Stent-Retrievers to Treat Delayed Cerebral Vasospasm Secondary to Sub-Arachnoid Hemorrhage</td>
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<tr>
<td>4:34:00 PM</td>
<td>Balloon Guide Catheter vs Distal Access Catheter: What Is the Most Effective Technique for Mechanical Thrombectomy in Acute Ischemic Stroke?</td>
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<tr>
<td>4:42:00 PM</td>
<td>Contrast Extravasation During Thrombectomy for Acute Ischemic Stroke: Incidence, Endovascular Management and Clinical Outcome</td>
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<tr>
<td>4:50:00 PM</td>
<td>High Spatio-Temporal Resolution Contrast Enhanced MRA of Spine Using Differential Subsampling with Cartesian Ordering (DISCO): A Feasibility Study</td>
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<tr>
<td>5:08:00 PM</td>
<td>Cognitive, Technical and Anatomical Pitfalls in Spinal Angiography</td>
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<tr>
<td>5:16:00 PM</td>
<td>Gadoterate Meglumine Pharmacokinetics, Safety and Efficacy in Pediatric Subjects Aged &lt;2 Years</td>
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<tr>
<td>5:24:00 PM</td>
<td>A Fast Screening Brain MRI Protocol Reduces Need for Sedation and Time Out of the NICU</td>
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<tr>
<td>5:32:00 PM</td>
<td>Early MRI Evidence of Brain Injury is Associated with Adverse Neurodevelopmental Outcome in Children with Congenital Diaphragmatic Hernia</td>
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<tr>
<td>5:40:00 PM</td>
<td>Antenal Factors that Affect the Severity of Postnatal Brain Injury in Congenital Diaphragmatic Hernia</td>
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<tr>
<td>5:48:00 PM</td>
<td>Superficial Siderosis after Germinal Matrix Hemorrhage</td>
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<td>5:56:00 PM</td>
<td>Frontal to Occipital Horn Ratio is Associated with Multifocal Intraparenchymal Hemorrhages in Neonatal Shunted Hydrocephalus</td>
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<td>6:04:00 PM</td>
<td>Delay to Radiological Diagnosis of Spinal Dural Arteriovenous Fistulas: A 10 Year Retrospective Analysis of Referrals to a Tertiary Neurosciences Centre in the South West of England</td>
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<td>6:12:00 PM</td>
<td>The Yield of Initial MRI in 115 Cases of Angiographically Confirmed Spinal Vascular Malformations</td>
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<td>High Spatio-Temporal Resolution Contrast Enhanced MRA of Spine Using Differential Subsampling with Cartesian Ordering (DISCO): A Feasibility Study</td>
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<td>6:28:00 PM</td>
<td>Cognitive, Technical and Anatomical Pitfalls in Spinal Angiography</td>
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<td>6:36:00 PM</td>
<td>Gadoterate Meglumine Pharmacokinetics, Safety and Efficacy in Pediatric Subjects Aged &lt;2 Years</td>
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<td>6:44:00 PM</td>
<td>A Fast Screening Brain MRI Protocol Reduces Need for Sedation and Time Out of the NICU</td>
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<td>6:52:00 PM</td>
<td>Early MRI Evidence of Brain Injury is Associated with Adverse Neurodevelopmental Outcome in Children with Congenital Diaphragmatic Hernia</td>
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<td>7:00:00 PM</td>
<td>Antenal Factors that Affect the Severity of Postnatal Brain Injury in Congenital Diaphragmatic Hernia</td>
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<td>7:08:00 PM</td>
<td>Superficial Siderosis after Germinal Matrix Hemorrhage</td>
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<td>7:16:00 PM</td>
<td>Frontal to Occipital Horn Ratio is Associated with Multifocal Intraparenchymal Hemorrhages in Neonatal Shunted Hydrocephalus</td>
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### PARALLEL SCIENTIFIC PAPER SESSIONS AT-A-GLANCE

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<tr>
<td><strong>A Magical Mystery Tour</strong></td>
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<tr>
<td>E-19 • 3:30:00 PM • Simultaneous Collaboration with Colleagues to Make a Lecture Presentation Using Google Slides</td>
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<td>E-21 • 3:38:00 PM • Percutaneous Embolization of Periorbital Arteriovenous Malformation With Bleomycin</td>
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<td>E-22 • 3:42:00 PM • A Rare Case of Complex Intraosseous Cranial Arteriovenous Malformation With Successful Multidisciplinary Management</td>
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<tr>
<td>E-23 • 3:46:00 PM • Treatment of Hemorrhagic Head and Neck Lesions by Direct Puncture and n-BCA Embolization</td>
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<tr>
<td>E-24 • 3:50:00 PM • Post-Embolization Peri-Aneurysmal Brain Inflammation After Flow Diversions: Late Complication and Stroke Mimic After Aneurysm Treatment</td>
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<td>E-25 • 3:54:00 PM • Kinking of Flow Diverter — A Case Report</td>
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<td>E-26 • 3:58:00 PM • Cholesterol Embolization Following Carotid Artery Stenting — A Case Report</td>
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<td>E-27 • 4:02:00 PM • Gyriform Parenchymal Enhancement on Dyna CT Helps Decision Making During Acute Stroke Mechanical Thrombectomy</td>
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<tr>
<td>E-28 • 4:06:00 PM • Post Traumatic Occlusive Internal Carotid Artery Dissection and Stroke Treated with Mechanical Thrombectomy and Stenting — A Case Report</td>
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<td>E-29 • 4:10:00 PM • Subarachnoid Fat Embolism Following Traumatic Fracture Of A Sacral Spinnemonical Cyst</td>
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<tr>
<td>E-30 • 4:14:00 PM • Spinal Subarachnoid Hemorrhage: A Rare Case of Spinal Aneurysm Rupture</td>
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<th>Session 06F</th>
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<tr>
<td><strong>Acute Stroke Management Decisions: Answers from Advanced Imaging?</strong></td>
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<tr>
<td>O-73 • 3:30:00 PM • Machine Learning Improves Prediction of Patient Outcomes</td>
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<td>O-74 • 3:38:00 PM • DCE-MRI Blood-Brain Barrier Assessment in Acute Ischemic Stroke</td>
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<td>O-75 • 3:46:00 PM • Utilizing Low B-Value DWI Sequences to Rapidly Assess Perfusion in the Setting of Acute Stroke</td>
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<tr>
<td>O-76 • 3:54:00 PM • A Novel Approach to Measuring Cerebral Oxygen Extraction Fraction and Vascular Reserve Using MRI</td>
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<td>O-77 • 4:02:00 PM • The Effect of Scan Length on the Assessment of Cerebral Perfusion Using Resting-State Functional MRI: A Comparison Between Sequences in Acute Stroke</td>
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<td>O-78 • 4:10:00 PM • Resting-State fMRI Delay Maps for Measurement of the Penumbra in Acute Ischemic Stroke Patients Undergoing Endovascular Triage</td>
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<td>O-79 • 4:18:00 PM • Three-Direction Fractional Anisotropy for Improved Infarct Volume Calculation in Acute Stroke</td>
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<tr>
<td>O-80 • 4:26:00 PM • Diffusional Kurtosis Imaging and Prediction of Motor Outcome in Acute Ischemic Stroke</td>
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PARALLEL SCIENTIFIC PAPER SESSIONS AT-A-GLANCE

**O-81 • 4:34:00 PM** • Utility of Arterial Spin Labeling Technique for Monitoring Cerebral Blood Flow Change in Acute Ischemic Stroke Patients After Endovascular Thrombectomy

**Monday**
Room 203AB (Upper Level)

**SESSION 06G**

**Tracking Tumors: Meningiomas and More!**

**O-83 • 3:38:00 PM** • Is Diffusion Tensor Imaging Superior to Conventional Magnetic Resonance Imaging in Predicting the Consistency of Meningioma: Preliminary Results

**O-84 • 3:46:00 PM** • Imperfection of Dynamic Susceptibility Contrast Perfusion-Weighted Imaging (DSC-PWI) Time-Intensity Curve in Differentiating Typical from Atypical Meningioma

**O-85 • 3:54:00 PM** • Incidence and Volume of Acute Post-Operative Hemorrhage After Resection of Grade 1 vs. Grade 2 Meningiomas

**O-86 • 4:02:00 PM** • Radiologic Differential Diagnosis Between Typical and Atypical Meningiomas: Added Value of Non-Model Based Dynamic Contrast Enhanced (DCE) MRI

**O-88 • 4:18:00 PM** • 3D Guided Direct Puncture Therapeutic Embolization of Intracranial Tumors

**O-89 • 4:26:00 PM** • Comparison of Gadoterate Meglumine and Gadobutrol in MRI Diagnosis of Brain Tumors: A Double-Blind Randomized Intra-Individually Controlled in Cross-Over Study (The REMIND Study)

**O-90 • 4:34:00 PM** • MRI-Based Fractal Analysis and Diffusion-Weighted Imaging for Pre-Operative Prediction of Atypical Meningiomas

Monday
Room 102BC (Main Level)

**SESSION 06H**

**Evaluating Headaches... and Avoiding Them in Practice!**

**T-15 • 3:30:00 PM** • Precision Medicine in Neuroimaging: The Icing On The Cake!

**T-16 • 3:33:00 PM** • Keeping Up with the Ever Expanding Practice

**T-17 • 3:36:00 PM** • Radiology as a Champion in Efforts in Realizing a Culture Change in Patient and Referring Clinician Access in a Large Academic Medical Center Through Development of a Successful Comprehensive Centralized Scheduling Department

**T-18 • 3:39:00 PM** • Delivering the Message to a Large Academic Medical Center: Portable Tablet Surveys to Outside Referring Clinicians are Effective in Identifying Service Barriers and Ultimately Increasing Referrals from this Valuable Source

**T-19 • 3:42:00 PM** • Advanced Imaging in the Evaluation of Headache in the Emergency Department: When is it Appropriate After a Negative Head CT?

**T-20 • 3:45:00 PM** • Headache Imaging in Children: When and How?

**T-21 • 3:48:00 PM** • Issues With Determining Appropriateness of MR Imaging in Pediatric Headache

**T-22 • 3:51:00 PM** • Radiographs in Pediatric Headache

**T-23 • 3:54:00 PM** • Inappropriate Skull Radiographs in Pediatric Head Trauma Patients Older than Age Two Years

**T-24 • 3:57:00 PM** • Imaging Findings and Differential Diagnoses of Craniofacial Lytic Lesions in the Pediatric Population: Pointers for the Radiologists

**T-25 • 4:00:00 PM** • Age-Dependent Signal Intensity Changes in the Clinically Normal Pediatric Brain on Unenhanced T1-Weighted MR Imaging

**T-26 • 4:03:00 PM** • Is Contrast Needed in Routine Intracranial MR Surveillance Imaging in Pediatric Neurofibromatosis Type -1 Patients? Gadolinium Deposition and Considerations for Surveillance Scanning

**T-27 • 4:06:00 PM** • The Clinical and Imaging Spectrum of Hypertrophic Olivary Degeneration in Children

**T-28 • 4:09:00 PM** • Enhanced Cortical Lesion Detection in Multiple Sclerosis Using Z-Score Methodology to Surface-Based Cortical Myelin Mapping
Monday
Grand Ballroom (Upper Level)

SESSION 14A

Pediatric Neuroradiology: Infection and Inflammation... Information

O-91 • 3:30:00 PM • Causes and Patterns of Leptomeningeal Enhancement on Brain MRI in a Pediatric Population

O-92 • 3:38:00 PM • CNS Imaging Findings in Congenital Zika Virus Infection: a Prospective Study

O-93 • 3:46:00 PM • Neuroimaging Findings on the Congenital ZIKA Virus Outbreak in Brazil: The Value of Ultrasonography as a Screening Tool

O-94 • 3:54:00 PM • Posterior Reversible Encephalopathy Syndrome in Cerebral Malaria: Clinical Risk Factors and Prognosis

O-95 • 4:02:00 PM • Non-Specific Foci of White Matter Signal Identified on Brain MRI in Children: Clinical Significance and Imaging Follow-Up

O-96 • 4:10:00 PM • Acute Brain Injury Following Illicit Drug Abuse in Adolescent and Young Adult Patients: Spectrum of Neuroimaging Findings

O-97 • 4:18:00 PM • Reversible Hyper Intense Foci on T1-Weighted Images in Acute Disseminated Encephalomyelitis

O-98 • 4:26:00 PM • Pediatric Onset Multiple Sclerosis: Evaluation of Sequential Brain MR Imaging to Study the Disease Evolution and Predict Outcomes

O-99 • 4:34:00 PM • Susceptibility Weighted Imaging in Adrenoleukodystrophy: Correlation of Findings with Disease Severity and Clinical Outcome

Tuesday
Room 103 (Main Level)

SESSION 14C

Spine Imaging: Lesion Detection and Infection... Ready, Set, PET!

O-109 • 3:30:00 PM • Expert-Based Artificial Intelligence Tool for Diagnosis of Spine Pathology Using Bayesian Networks

O-110 • 3:38:00 PM • Detection of Spinal Cord Lesions in Clinically Isolated Syndrome Patients: Comparison of Sagittal Short T1 Inversion Recovery (STIR), T2-Weighted, Proton Density and Combined T2-STIR Sequences

O-111 • 3:46:00 PM • Neurographic Imaging as a Biomarker for Detecting Radiation Injury to the Spinal Cord

O-112 • 3:54:00 PM • Involvement of the Peripheral Nervous System in Multiple Sclerosis Detected in Vivo by High-Resolution MR-Neurography

O-113 • 4:02:00 PM • Using Dynamic Contrast-Enhanced Magnetic Resonance Perfusion Imaging to Monitor Tumor Response to Therapy in Chordoma

O-114 • 4:10:00 PM • Direct Comparison of T1-Dixon and STIR in the Identification of FDG PET Avid Metastases in the Spine on Dedicated PET-MRI

O-115 • 4:18:00 PM • PET Imaging of Infection Using Metabolic Labeling of the Bacterial Cell Wall

O-116 • 4:26:00 PM • PET Imaging of Spinal Infection by Targeting Folate Metabolism

O-117 • 4:34:00 PM • Percutaneous Spinal Biopsy: Is Aspiration Crucial in Detecting Infection?
Tuesday
Room 104A (Main Level)

SESSION 14D

Stroke Management: Viable Outcomes for Vascular Occlusions

O-118 • 3:30:00 PM • DSA Cerebral Circulation Time for Assessment of Symptomatic Carotid Stenosis

O-119 • 3:38:00 PM • Correlation of Large Vessel Occlusion With Types of Neurologic Symptoms in Acute Ischemic Stroke

O-120 • 3:46:00 PM • Relationships Between the National Institute of Health Stroke Scale (NIHSS) and Predictive Values of CT and MRI in the Identification of Stroke in ED Patients: Can Clinical Presentations Improve Efficacy in the Selection of Competing Imaging Modalities?

O-121 • 3:54:00 PM • Clinical Scores and Imaging-Based Venous Biomarker for Predicting Recanalization and Functional Outcome After Thrombolysis

O-122 • 4:02:00 PM • Multivariate Prognostic Model of Acute Ischemic Stroke Combining Admission Infarct Location and Symptom Severity: A Proof-of-Concept Study

O-123 • 4:10:00 PM • A Simple Prognostic Tool for Predicting 3-Month Functional Outcome 24 Hours After Ischemic Stroke

O-124 • 4:18:00 PM • Endovascular Management and Outcomes in Acute Ischemic Stroke With Tandem Occlusions of Cervical ICA and Intracranial Arteries — Insights from the ESCAPE Randomized Controlled Trial

O-125 • 4:26:00 PM • Stent Retrievers Prevent Distal Embolism Effectively During Mechanical Thrombectomy

O-126 • 4:34:00 PM • Penetration Depth of Stent Retrievers Into Clots is Highly Dependent on Stent Design

O-413 • 4:42:00 PM • Infarct Growth Rate Depends on Collateral Quality in Acute Ischemic Stroke Patients

Tuesday
Room 104B (Main Level)

SESSION 14E

"Brain Teasers"... Try to Untangle!

E-37 • 3:30:00 PM • Sagging Eye Syndrome

E-38 • 3:34:00 PM • Heidenhain Variant Creutzfeldt-Jakob Disease: Another Cause for Posterior Reversible Encephalopathy Syndrome?

E-39 • 3:38:00 PM • CT, MRI, and FDG-PET Findings in Adult Onset Adrenoleukodystrophy: Advanced Neuroimaging of this Classic Entity

E-40 • 3:42:00 PM • Young Female With Fragile X-Associated Tremor/Ataxia Syndrome

E-41 • 3:46:00 PM • Cerebellar Herniation into an Arachnoid Granulation — Does it Matter? A Report of Two Cases and Review of the Literature

E-42 • 3:50:00 PM • Restricted DWI in Acute Wernicke's Encephalopathy

E-43 • 3:54:00 PM • The Claustrum Sign: A Case Report and a Discussion of its Significance

E-44 • 3:58:00 PM • Atypical Language Representation and Multimodal Preoperative Assessment in a Trilingual Patient with Epilepsy

E-45 • 4:02:00 PM • Fully Autonomous Bilateral Language Processing in a Patient with Right Temporal Epilepsy

E-46 • 4:06:00 PM • Vessel Wall Imaging Can be Used to Detect and Monitor Treatment Response in the Setting of Deep External Carotid Artery (ECA) Vasculitis

E-47 • 4:10:00 PM • Hidden in Plain Sight: Unusual Case of Medulloblastoma in an Adult, Masquerading as Subacute Infarction with MRI and Pathologic Correlation

E-48 • 4:14:00 PM • Neurosyphilis as Important Imaging Mimic of Limbic Encephalitis

E-49 • 4:18:00 PM • A Challenging Case of Tumefactive Demyelinating Lesion: Atypical Findings on Conventional and Advanced Imaging

E-50 • 4:22:00 PM • Cerebral Schistosomiasis Mimicking Brain Tumor

E-51 • 4:26:00 PM • Optic Neuritis Related to Varicella Zoster Vaccination

E-52 • 4:30:00 PM • Just Say No to Giant Escargot! A Case of Eosinophilic Meningoencephalitis Caused by Angiostrongylus Cantonensis After Ingestion of a Giant African Snail

E-53 • 4:34:00 PM • Atypical Clinical and Neuroradiologic Presentation of a Sporadic Form of Creutzfeld-Jacob Disease

E-54 • 4:38:00 PM • Miliary Neurotuberculosis
Tuesday
Room 203AB (Upper Level)

**SESSION 14G**

*Advanced Imaging for Brain Tumors — Get Out in Front of Gliomas (and more!)*

**O-127 • 3:30:00 PM** • Deep Learning and Recurrent Glioblastoma: A New Approach For Imaging Evaluation

**O-128 • 3:38:00 PM** • Deep Learning and Glioma Radiogenomics: A TCGA/TCIA Project

**O-130 • 3:54:00 PM** • Texture Analysis of Magnetic Resonance Fingerprinting in Adult Brain Tumors

**O-131 • 4:02:00 PM** • TERT Promoter Mutation Prediction Using Support Vector Machine (SVM) in Patients With Wild-Type IDH1 Glioblastoma

**O-132 • 4:10:00 PM** • Diffusion Tensor Image Features Predict IDH Genotype in Newly Diagnosed WHO Grade II/III Gliomas Using a Machine-Learning Classifier

**O-134 • 4:26:00 PM** • Multi-Center Study Demonstrates Radiomic Texture Features Derived From MR Perfusion Images Predict Pseudoprogression From True Progression in Glioblastoma Patients

**O-135 • 4:34:00 PM** • Differentiation of Enhancing Glioma and Primary Central Nervous System Lymphoma by Texture-Based Machine Learning

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Tuesday
Room 102BC (Main Level)

**SESSION 14H**

*Stenosis, Thrombosis and Other Vascular Pathology... Finding It and Losing It!*

**T-29 • 3:30:00 PM** • Prevalence and Impact of Aortic Arch Anatomy Variants in Patients Undergoing Mechanical Thrombectomy for Emergent Large Vessel Occlusion (ELVO)

**T-30 • 3:33:00 PM** • ICA “Pseudo-Occlusion”: Initial Experience Using A Low-Kv, Low-Contrast CT Angiography Protocol for Acute Stroke and Correlation With Angiography at the Time of Mechanical Thrombectomy

**T-31 • 3:36:00 PM** • Efficacy and Safety of a New Dual-Layer Micromesh Stent for the Treatment of Carotid Artery Stenosis

**T-32 • 3:39:00 PM** • Correlation Between Immunohistochemical Thrombus Analysis, Stroke Etiology and Patient Prognosis

**T-33 • 3:42:00 PM** • Endovascular Treatment for Acute Basilar Thrombosis via a Transradial Approach: Initial Experience and Future Considerations

**T-34 • 3:45:00 PM** • Safety and Efficiency of Ticagrelor in Interventional Neuroradiology: Experience of the University Hospital of Tours

**T-35 • 3:48:00 PM** • Safety of Combined Intravenous tPA and Endovascular Therapy vs. Intravenous tPA Alone for Treatment of Large Vessel Occlusion in Low Stroke Scale Patients

**T-36 • 3:51:00 PM** • Venous Phase 3 D Rotational Angiography: A Noble Technique For Transvenous Embolization Of An Indirect Carotid-Cavernous Fistula In An Apparently Inaccessible Cavernous Sinus

**T-37 • 3:54:00 PM** • Delayed Hemodynamics of Normal White Matter Relative to Gray Matter Demonstrated With DSC Perfusion MRI: High Temporal Resolution TTP Maps

**T-38 • 3:57:00 PM** • Use of Vessel Wall Magnetic Resonance Sequence in the Evaluation of Intracranial Valvulopathies — Preliminary Results of a Brazilian Center

**T-39 • 4:00:00 PM** • Intracranial Aneurysms of 1-3 mm Discovered on MRA are Highly Stable Over Time

**T-40 • 4:03:00 PM** • Markedly Increased Prevalence of Intracranial Aneurysms in High Risk Sickle Cell Patients

**T-41 • 4:06:00 PM** • HHT Revisited: MR Imaging — Based Evaluation of Underlying Structural and Vascular Anomalies in Patients With Hereditary Hemorrhagic Telangiectasia

**T-42 • 4:09:00 PM** • Unexpected Findings from 10,391 Brain Magnetic Resonance Imaging Exams in Research Volunteers

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Tuesday
Room 104A (Main Level)

**SESSION 15D**

*Pediatric Neuroradiology: Brain Tumors Beware!*

**O-136 • 5:00:00 PM** • Combined Use of Permeability and ADC Histogram Metrics for Classification of Pediatric Brain Tumors

**O-137 • 5:08:00 PM** • Differentiation of the Fourth Ventricular Primary Brain Tumors Using the ADC Histogram Analysis
O-138 • 5:16:00 PM • The Diagnostic Utility of Balanced Steady-State Free Precession (bSSFP) Sequences in the Imaging of Pediatric Posterior Fossa Ependymoma.

O-139 • 5:24:00 PM • Pediatric Medulloblastoma: Does Apparent Coefficient Value Predict the Molecular Subtypes?

O-140 • 5:32:00 PM • Group 3 and 4 Medulloblastomas Originate From the Nodulus of the Cerebellar Vermis

O-141 • 5:40:00 PM • MRI Characteristics of Metastatic Lesions to Differentiate Molecular Subgroups in Pediatric Medulloblastoma

O-142 • 5:48:00 PM • Detection of Non-Enhancing Recurrent Medulloblastoma on Diffusion Weighted Imaging

O-143 • 5:56:00 PM • Quantitative ADC to Predict Histone H3 K27M Mutational Status in Pediatric Diffuse Midline Gliomas

O-144 • 6:04:00 PM • Leukoencephalopathy and Diffusion Tensor Imaging in Survivors of Childhood Acute Lymphoblastic Leukemia Treated with Chemotherapy Only

O-145 • 6:12:00 PM • Methionine PET, MR Spectroscopy, and MR Perfusion Imaging for Assessing Pontine Gliomas

O-146 • 6:20:00 PM • MRI Features and Survival in Diffuse Intrinsic Pontine Glioma (DIPG): Report from the International DIPG Registry

Tuesday
Room 203AB (Upper Level)

SESSION 15G
Vascular Overture — Getting to Know You

O-147 • 5:00:00 PM • SWI vs Post Gd T1WI in the Detection of Developmental Venous Anomalies

O-148 • 5:08:00 PM • Imaging Findings in Thrombosis of Developmental Venous Anomalies

O-149 • 5:16:00 PM • Brain Metabolic and Perfusion Abnormalities Associated with Developmental Venous Anomalies

O-150 • 5:24:00 PM • Accuracy of SWI Sequences Compared to T2*-Weighted Gradient Echo Sequences in the Detection of Cerebral Cavernous Malformation

O-151 • 5:32:00 PM • Susceptibility Weighted Imaging Improves Detection of Microhemorrhage in Primary Angiitis of the CNS

O-152 • 5:40:00 PM • National Survey of Radiologic Management of Angiographically — Negative Subarachnoid Hemorrhage

O-153 • 5:48:00 PM • Radiologic Management of Angiogram-Negative Spontaneous Intracranial Subarachnoid Hemorrhage: A Multi-Center Study of Utilization and Diagnostic Yield

O-154 • 5:56:00 PM • Evaluating the Temporal Patterns of Blood Brain Barrier Permeability After Subarachnoid Hemorrhage

O-155 • 6:04:00 PM • Metabolic Dysfunction and Altered Blood-Brain-Barrier Permeability Metrics in Aneurysmal Subarachnoid Hemorrhage

O-156 • 6:12:00 PM • Radiogenomics of Blood Brain Barrier Damage — Applications in Aneurysmal Subarachnoid Hemorrhage

O-157 • 6:20:00 PM • Substance Abuse Effects in the Cerebral Vasculature: A Retrospective Study

Tuesday
Room 102BC (Main Level)

SESSION 15H
Brain Tumor Imaging: Predicting Pathology, Monitoring Management

O-158 • 5:00:00 PM • An “Aerobic Glycolytic Index” Derived From Simultaneous pH- and Oxygen-Weighted Metabolic MRI Correlates With Histopathology in Human Gliomas

O-159 • 5:08:00 PM • Brain Imaging Using ROS-Sensitive Ascorbate-Derived 11C Radiotracers

O-162 • 5:32:00 PM • F-18 FLT PET and MRI as Outcome Predictors in Glioblastomas Following Chemoradiation Therapy

O-163 • 5:40:00 PM • 18F-FET-PET in the Assessment of Recurrent Glioblastoma Receiving Bevacizumab Treatment

O-164 • 5:48:00 PM • Response Assessment of Bevacizumab Therapy in GBM With Integrated 11C-MET-PET/MRI

O-165 • 5:56:00 PM • Characterization of Glioblastoma Multiforme Treated With Bevacizumab Using Diffusion Weighted Imaging

#asnr17
O-166 • 6:04:00 PM • Monitoring Cerebral Perfusion in Patients with Glioma Using Arterial Spin Labeling as an Aid in Differentiating Progressive Disease Versus Treatment Effect

O-167 • 6:12:00 PM • Normalization of ADC Does Not Improve Correlation With Overall Survival in Patients With High-Grade Glioma (HGG)

O-168 • 6:20:00 PM • Prognostic Relevance of Gemistocytic Grade II Astrocytoma: Gemistocytic Component and MR Imaging Features Compared to Non-Gemistocytic Grade II Astrocytoma

Wednesday
Grand Ballroom (Upper Level)

SESSION 18A

Head and Neck Imaging — Can You Hear Me Now?

O-169 • 11:00:00 AM • Imaging of Tinnitus and Sensorineural Hearing Loss: Less May Be More

O-170 • 11:08:00 AM • MRI Screening of the Internal Auditory Canal: Is Gadolinium Necessary to Detect Intrabony Intracanalicular Schwannomas?

O-171 • 11:16:00 AM • Diagnostic Utility of Compressed Sensing SPACE for IAC MRI Screening Protocols

O-172 • 11:24:00 AM • Correlation of Quantitative Analysis on FLAIR and Enhanced FLAIR with Auditory Test in Sudden Hearing Loss

O-173 • 11:32:00 AM • Detection of Middle Ear Cholesteatoma by Readout-Segmented Echo-Planar Diffusion-Weighted Imaging at 3T

O-175 • 11:48:00 AM • Evaluation of the Cochlear R2 Angle and Depth on 3D T2 Weighted Images of the Temporal Bone in Children Without Sensorineural Hearing Loss: A Potential Tool for the Diagnosis of Scala Communis

O-176 • 11:56:00 AM • Evaluation of Mid-Aperture Measurement of the Endolymphatic Duct on MRI in Children Without Sensorineural Hearing Loss With CT Comparison

O-177 • 12:04:00 PM • Estimating the Volume of Acoustic Neuromas Using “Ice Cream Cone” Method Compared With the ABC/2 Formula and the Planimetry Method

O-178 • 12:12:00 PM • Tumor Volumes in Vestibular Schwannomas: Do the ABC/2 Method and 3D Planimetric Method Correlate?
PARALLEL SCIENTIFIC PAPER SESSIONS AT-A-GLANCE

O-190 • 6:30:00 AM • TRANCE (TRiggered Angiography Non Contrast Enhanced) MRI of the Intracranial Vasculature at 3 Tesla: Preliminary Experience in Children

O-191 • 11:24:00 AM • Ultrafast High-Spatial Resolution MR Angiography of the Head Using Differential Subsampling with Cartesian Ordering (DISCO)

O-192 • 11:32:00 AM • High Resolution Velocity Encoded PC-MRA (4D Flow): Image Quality Comparison with 3D Time of Flight MRA

O-193 • 11:40:00 AM • Imaging Characteristics Associated With Clinical Outcomes in Posterior Reversible Encephalopathy Syndrome

O-194 • 11:48:00 AM • Exploring Atypical PRES — What is Typical?

O-195 • 11:56:00 AM • Application of Deep Learning in Neuroradiology: Automated Detection of Basal Ganglia Hemorrhage

O-196 • 12:04:00 PM • Automated Diagnosis of Basal Ganglia Diseases Using a Customized Image-Processing Pipeline Coupled With Bayesian Networks

Wednesday
Room 104A (Main Level)

SESSION 18D

Brain Tumor Imaging: Here and On the Horizon

O-197 • 11:00:00 AM • Machine Learning Algorithms for Predicting GBM Growth Patterns Using Advanced and Delayed-Contrast MRI: Feasibility Demonstration

O-198 • 11:08:00 AM • Comparison Study of Radiogenomics Association and Prognostic Value Between MR Dynamic Susceptibility Contrast Perfusion Weighted Imaging and Diffusion Imaging in Patients with Newly Diagnosed Glioblastoma

O-199 • 11:16:00 AM • Investigating Dynamic Susceptibility Weighted Contrast Enhanced (DSC) Perfusion MR Imaging in Posterior Fossa Tumors: Differences and Similarities with Supratentorial Tumors

O-200 • 11:24:00 AM • Predicting Genomic Features of Lower Grade Gliomas with Diffusion and Signal Intensity Based Compartmentalization to Account for Tumor Heterogeneity

O-201 • 11:32:00 AM • Quantitative Multimodal MRI Improves the Predictive Power of Survival Models for Glioblastoma Patients

O-202 • 11:40:00 AM • Sodium Imaging and Gliomas

O-203 • 11:48:00 AM • Early Tumor Growth Between Initial Resection and Radiotherapy of Glioblastoma: Incidence and Impact on Clinical Outcomes

O-204 • 11:56:00 AM • Longitudinal Relationship Between DWI and DTI Parameters in Glioblastoma Following Treatment

O-205 • 12:04:00 PM • Diagnostic Accuracy of Centrally Restricted Diffusion in the Differentiation of Radiation Necrosis from Tumor Recurrence in High Grade Gliomas

Wednesday
Room 104B (Main Level)

SESSION 18E

Adult Brain Topics: “Real and Rare”... Really?

E-55 • 11:00:00 AM • CNS Involvement in Hypereosinophilic Syndrome

E-56 • 11:04:00 AM • Multimodality Imaging of Cerebral Crystal Storing Histiocytosis — Distinguishing Imaging Characteristics and Literature Review of a Very Rare Entity

E-57 • 11:08:00 AM • Cholesterol Granuloma Post-mastoidectomy Revision for Recurrent Cholesteatoma

E-58 • 11:12:00 AM • Beta-Amyloid Angiitis: An Atypical Radiographic Appearance

E-59 • 11:16:00 AM • Varicella Zoster Virus Meningoencephalitis

E-60 • 11:20:00 AM • Early Hemodynamic Response Assessment of Stereotactic Radiosurgery for a Cerebral Arteriovenous Malformation Using 4D Flow MRI

E-61 • 11:24:00 AM • Computed Tomographic Angiography of the Head in Extracorporeal Membrane Oxygenation

E-62 • 11:28:00 AM • TEMPI Syndrome Case with Multiple Neurological Findings (Telangiectasias, Elevated Erythropoietin Level and Erythrocytosis, Monoclonal Gammopathy, Perinephric-fluid Collections, and Intrapulmonary Shunting)

E-63 • 11:32:00 AM • Cavernous Sinus Hemangioma: A Case Report
E-64 • 11:36:00 AM • A Rare Presentation of Cerebral Proliferative Angiopathy with Subarachnoid Hemorrhage

E-65 • 11:40:00 AM • Brainstem Venous Congestion from Craniocervical Junction Dural AV Fistula: A Rare Cause of Brainstem Dysfunction

E-66 • 11:44:00 AM • A Dissecting Posterior Cerebral Artery Aneurysm Mimicking a Pineal Mass and Causing Obstructive Hydrocephalus

E-67 • 11:48:00 AM • Reversible Cerebral Vasocostriction: An Underdiagnosed Entity for Thunderclap Headaches

E-68 • 11:52:00 AM • Vessel Wall Enhancement in Delayed-Onset Intracranial Herpes Zoster Vasculitis

E-69 • 11:56:00 AM • Multiple Brain Arteriovenous Malformations (AVMs) Associated with Multiple Focal Nodular Hyperplasia (FNH) of the Liver: A Rare Syndrome

E-70 • 12:00:00 PM • Multifocal Progressive Intracerebral ‘Aggregomas’: Novel Clinical, Imaging and Pathologic Findings

E-71 • 12:04:00 PM • Melanotic Schwannoma: A Rare Cause of Accessory Nerve Palsy

E-72 • 12:08:00 PM • Extraventricular Subependymoma of the Cerebellopontine Angle in an Adult Patient

E-73 • 12:12:00 PM • Calcifying Pseudoneoplasm of the Neuraxis (CAPNON) Involving the Central Skull Base: Uncommon Location for an Uncommon Lesion

E-74 • 12:16:00 PM • Multiple Peripheral Fusiform Cerebral Aneurysms from Atrial Myxoma: Diagnostic Imaging and Interventional Management

O-209 • 11:24:00 AM • Perfusion Deficits Identified in Blast-TBI Subjects

O-210 • 11:32:00 AM • Resting Cerebral Perfusion Deficits and Relation To Cognitive Outcomes in Chronic Traumatic Brain Injury

O-211 • 11:40:00 AM • Hyperbaric Oxygen Therapy Can Induce Angiogenesis and Regeneration of Nerve Fibers in Traumatic Brain Injury Patients

O-212 • 11:48:00 AM • Subconcussive Impacts in High School Football Alter MEG Measured Default Mode Network

O-213 • 11:56:00 AM • Decreased Hippocampus and Amygdala Volumes in Patients with Traumatic Brain Injury Are Associated with Decreased Post-Traumatic Stress Disorder Resilience

O-214 • 12:04:00 PM • Near Term Decrease in Brain Volume Following mTBI is Detectible in the Context of Pre-Injury Stability

Wednesday
Room 104C (Main Level)

SESSION 18F

TBI: Understanding “Undone”

O-206 • 11:00:00 AM • Distribution of Subarachnoid Hemorrhage as a Predictor of Diffuse Axonal Injury

O-207 • 11:08:00 AM • Prevalence of Microhemorrhages Following Blast-Related Mild Traumatic Brain Injury in Military Service Members Using Susceptibility-Weighted MRI

O-208 • 11:16:00 AM • SWI Patterns of Cerebral Bleeds in Patients With Diffuse Axonal Injury: Correlation With GCS at Admission

O-209 • 11:24:00 AM • Perfusion Deficits Identified in Blast-TBI Subjects

O-210 • 11:32:00 AM • Resting Cerebral Perfusion Deficits and Relation To Cognitive Outcomes in Chronic Traumatic Brain Injury

O-211 • 11:40:00 AM • Hyperbaric Oxygen Therapy Can Induce Angiogenesis and Regeneration of Nerve Fibers in Traumatic Brain Injury Patients

O-212 • 11:48:00 AM • Subconcussive Impacts in High School Football Alter MEG Measured Default Mode Network

O-213 • 11:56:00 AM • Decreased Hippocampus and Amygdala Volumes in Patients with Traumatic Brain Injury Are Associated with Decreased Post-Traumatic Stress Disorder Resilience

O-214 • 12:04:00 PM • Near Term Decrease in Brain Volume Following mTBI is Detectible in the Context of Pre-Injury Stability

Wednesday
Room 203AB (Upper Level)

SESSION 18G

“Seizing” Opportunity

O-215 • 11:00:00 AM • Quantitative Assessment of Contralateral Hippocampal Signal Alteration in Temporal Epilepsy Patients with Unilateral Mesial Temporal Sclerosis

O-216 • 11:08:00 AM • Determination of Hippocampal Epileptogenicity on the Basis of Alteration of Clinical 3T MR Microarchitecture Alone in the Absence of Volume or Signal Change

O-217 • 11:16:00 AM • Amygdala and Hippocampal Enlargement in Temporal Lobe Epilepsy

O-218 • 11:24:00 AM • Signal Changes of the Temporal Pole Can Be Seen in Non Mesial Temporal Lobe Epilepsy

O-219 • 11:32:00 AM • Subcortical Linear High Intensity in the Temporal Pole is Related with Mesial Temporal Lobe Epilepsy

O-220 • 11:40:00 AM • Hybrid [(18) FDG] – PET/MRI in Patients with Temporal Lobe Epilepsy

O-221 • 11:48:00 AM • Laterality of Anterior Temporal Lobe Glucose Metabolism in Extra Temporal Focal Cortical Dysplasia

O-222 • 11:56:00 AM • Language Network Plasticity in Surgical Temporal Lobe Epilepsy Patients — Preliminary Results from a Clinical fMRI-study
Wednesday
Room 102BC (Main Level)

SESSION 18H
TURBO & TOUR: Advanced Imaging: Now and Next

T-43 • 11:00:00 AM • Transient Cerebral Injury After A Single Hypobaric Exposure to 25,000 Ft During Routine Aircrew Training? MRI Evaluation of High Altitude Exposure Upon the Brain

T-44 • 11:03:00 AM • FNCI Directed Assessment of NeuroVascular Uncoupling in Concussion Patients

T-45 • 11:06:00 AM • Effects of Sports-Related Head Impact Exposure on Cerebral Blood Flow in Deep Gray Nuclei

T-46 • 11:09:00 AM • Occupational Hazards of Flying Pigs: A Swine Model for Hypobaric-Induced Neuronal Injury

T-47 • 11:12:00 AM • MRI in Mesial Temporal Lobe Epilepsy — Is Hippocampal Astrogliosis a Distinct Entity?

T-48 • 11:15:00 AM • The Role of MRI in Thermal Laser Ablation for Epilepsy

T-49 • 11:18:00 AM • Imaging Temporal Lobe Epilepsy: Beyond the Hippocampus

T-50 • 11:21:00 AM • Chorda Tympani and Multifocal Cranial Nerve Involvement in CIDP

T-51 • 11:24:00 AM • Neuroimaging Manifestations of Hematologic Malignancies: A Compartmental Approach

T-52 • 11:27:00 AM • Multicenter Study on the Prognostic Utility of Diffusion Weighted Imaging in Patients with Brain Metastases

T-53 • 11:30:00 AM • 7T MRS on Multiple Brain Metabolites in the First Episode Psychosis: Neuronal Impairment and Neurotransmitter Abnormalities

T-54 • 11:33:00 AM • Analyzing Imaging Manifestations of Neurosarcoidosis: A Retrospective Review

T-55 • 11:36:00 AM • Management and Treatment of Headaches Based on Neuroradiological Findings

Wednesday
Room 104A (Main Level)

SESSION 19D
Pediatric Neuroradiology: Clinical Development and Imaging Developments

O-224 • 1:30:00 PM • Diffusion Tensor Imaging in Horizontal Gaze Palsy With Progressive Scoliosis

O-225 • 1:38:00 PM • Utility of Diffusion Imaging in Detection of Gray Matter Heterotopia

O-226 • 1:46:00 PM • MR Imaging Features of Idiopathic Developmental Delay

O-227 • 1:54:00 PM • Joubert Syndrome: Correlation Between Neuroimaging and Cognitive Function

O-228 • 2:02:00 PM • Diffusion Kurtosis Imaging of the Developing Brain from Childhood to Adult

O-229 • 2:10:00 PM • Cerebral Palsy, Intellectual Disability, Epilepsy, and Cerebellar Hypoplasia Caused by a Novel Homozygous SEPSECS Mutation

O-230 • 2:18:00 PM • Septo-Optic Dysplasia: Revisited, with Special Attention to the Olfactory Sulci and Hippocampi

O-231 • 2:26:00 PM • Regional NF1 Gene Expression: Implications for Neurofibromatosis Type I Pathobiology

O-232 • 2:34:00 PM • Hybrid Phacomatoses: A Review of Four Patients

O-233 • 2:42:00 PM • Implications of Regional TSC1 Gene Expression on Cerebellar Development and Behavioral Abnormalities in Patients with Tuberous Sclerosis Complex

O-234 • 2:50:00 PM • Central Nervous System Manifestations of Neurofibromatosis Type 1 in Adulthood

Wednesday
Room 104C (Main Level)

SESSION 19F
Spine Imaging: Pain and Procedures

O-235 • 1:30:00 PM • Vertebral Augmentation for Multiple Myeloma Patients With Spinal Fractures: A Population Analysis of Mortality Using SEER-Medicare Data

O-236 • 1:38:00 PM • Volume of Epidural Contrast on Post-Myelogram CT of the Lumbar Spine and Rates of Subsequent Blood Patch Treatment
<table>
<thead>
<tr>
<th>Session Time</th>
<th>Session Title</th>
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<tbody>
<tr>
<td>O-237 • 1:46:00 PM</td>
<td>CT Fluoroscopy-Guided Cervical Interlaminar Epidural Steroid Injections: Assessing the Rate of Inadvertent Intrafacet Injection</td>
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<tr>
<td>O-238 • 1:54:00 PM</td>
<td>Open Surgical Biopsy of Degenerated Discs With Correlation of Associated MRI Modic Changes</td>
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<tr>
<td>O-239 • 2:02:00 PM</td>
<td>Success Rates of Image Guided Botox Injection in Patients with Neurogenic Thoracic Outlet Syndrome: Correlation With MR Neurography And Dynamic Ultrasound</td>
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<tr>
<td>O-240 • 2:10:00 PM</td>
<td>CT Guided Biopsy of Spinal Occult Lesions Can Be Safely Performed with Reasonable Diagnostic Yield</td>
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<tr>
<td>O-241 • 2:18:00 PM</td>
<td>Numbering the Lumbar Vertebral Segments by Localizing the Exiting L5 Nerve Root</td>
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<tr>
<td>O-242 • 2:26:00 PM</td>
<td>Biomechanical Influence of Pre-Existing Surgical Interventions of the Spine and/or Lower Extremities or Scoliosis on Sacroiliac Joint Related Pain Syndromes and on Subsequent Sacroiliac Joint Treatment Outcomes</td>
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<tr>
<td>O-243 • 2:34:00 PM</td>
<td>3D Cone Beam Computerized Tomography (3D-CBCT) Guided Sacroiliac (SI) Joint Injection: A Real-Time, Interactive, Accurate, Fast and Reduced Radiation Exposure Technique</td>
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<tr>
<td>O-244 • 2:42:00 PM</td>
<td>A 3D-Printed Lumbosacral Spine Simulation Model for CT and Fluoroscopically-Guided Spine Procedures</td>
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<tr>
<td>O-245 • 2:50:00 PM</td>
<td>Use of Trans-Visible Wearable Augmented Reality Goggles as an Adjunct Imaging Guide in Spinal Pain Management Interventions: Proof of Concept Using a 3D Printed Phantom</td>
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<tr>
<td><strong>Wednesday</strong></td>
<td><strong>Room 102BC (Main Level)</strong></td>
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<tr>
<td><strong>SEASON 19H</strong></td>
<td><strong>Gd, Gd Everywhere... Cause for Pause, and Think!</strong></td>
</tr>
<tr>
<td>O-257 • 1:30:00 PM</td>
<td>Safety and Diagnostic Efficacy of Gadoterate Meglumine in Magnetic Resonance Imaging (MRI) of Central Nervous System (CNS)</td>
</tr>
<tr>
<td>O-258 • 1:38:00 PM</td>
<td>Evaluation of Gadolinium Retention After Serial Administrations of a Macrocyclic Gadolinium-Based Contrast Agent (Gadobutrol): A Single-Institution Experience with 189 Patients</td>
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<tr>
<td>O-259 • 1:46:00 PM</td>
<td>Deposition of Gadolinium in the Organs, Tissue, and Bone of Patients who Underwent Multiple Gadodiamide-Enhanced MR Exams</td>
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<tr>
<td>O-260 • 1:54:00 PM</td>
<td>Gadobenate Dimeglumine (Multihance) Deposition in the Dentate Nucleus and Globus Pallidus</td>
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<tr>
<td>O-261 • 2:02:00 PM</td>
<td>Adult Patients Demonstrate Progressive T1 Shortening in the Dentate Nucleus Following Multiple Doses of Gadobenate Dimeglumine Administration</td>
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</tbody>
</table>
O-262 • 2:10:00 PM • High Signal Intensity In The Dentate Nucleus and Globus Pallidus On Unenhanced T1-Weighted MR Images: Comparison Between Gadobutrol And Linear Gadolinium-Based Contrast Agents

O-263 • 2:18:00 PM • Administration of Multiple (6 or more) Doses of a Linear Gadolinium Contrast Agent (GBCA) Demonstrates No Adverse Clinical Effects or New Neurological Sequelae in Multiple Sclerosis (MS) Patients with Normal Renal Function

O-264 • 2:26:00 PM • Gadolinium Deposition in the Pediatric Brain: T1-Weighted Hyperintensity Within the Dentate Nucleus Following Repeated Gadolinium-Based Contrast Agent Administration

O-265 • 2:34:00 PM • Longitudinal Changes in Dentate Nucleus-Pons and Globus Pallidus-Thalamus Signal Intensity Ratios in Multiple Sclerosis Patients from Cumulative Gadobenate Administrations

O-266 • 2:42:00 PM • The Effect of a Gadolinium Holiday on MRI Signal Changes in Brain Gadolinium Deposition

O-267 • 2:50:00 PM • Gadolinium Deposition in the Organs, Tissues, and Bone of a Patient Diagnosed with Nephrogenic Systemic Fibrosis

Wednesday
Room 202 (Upper Level)

**SESSION 20B**

Fetal and Pediatric Imaging Feats: Way to Grow!

O-268 • 3:30:00 PM • Ultrafast Brain MRI Can Be Used for Indications Beyond Shunted Hydrocephalus

O-269 • 3:38:00 PM • Brain DSC MR Imaging Perfusion in Children: A Clinical Feasibility Study

O-270 • 3:46:00 PM • Quantitative Synthetic MRI in Children: Normative Intracranial Tissue Segmentation Values During Development

O-271 • 3:54:00 PM • Image Processing to Improve Gray-White Differentiation in Pediatric Head CT Images

O-272 • 4:02:00 PM • MRI Determination of Normal Pediatric Pituitary Gland Volumes Utilizing Ellipsoid Volumes Compared to 3-Dimensional Volumetric Analysis

O-273 • 4:10:00 PM • Evaluating a New Objective Indicator of Idiopathic Intracranial Hypertension (IIH) on Routine Pediatric Brain CT Scan

O-274 • 4:18:00 PM • Does a Correlation Exist Between Placental Volume and Fetal Isolated Ventriculomegaly?

O-275 • 4:26:00 PM • Volumetry, ADC and T2-Weighted Values of the Placenta in Fetuses With and Without CNS Abnormalities

O-276 • 4:34:00 PM • Intensity Profiles of Transient Layers in the Human Fetal Brain on Postmortem MRI and Corresponding Histology, with Special Emphasis on Subplate

Wednesday
Room 103 (Main Level)

**SESSION 20C**

Imaging of Cognitive Impairment — Not in the Know?

O-277 • 3:30:00 PM • The ERICA-Score (Entorhinal Cortex Atrophy) — A Novel Visual Scoring System for the Assessment of Medial Temporal Lobe Atrophy in Alzheimer’s Disease with MRI

O-278 • 3:38:00 PM • The Correlation Between Cerebral Microbleed, Amyloid Uptake and Hypometabolism in Alzheimer’s Disease, and Mild Cognitive Impairment

O-279 • 3:46:00 PM • Cerebral Perfusion Alterations in Amnestic Mild Cognitive Impairment Determined by Cortisol Gene Variant: An Arterial Spin Labeling (ASL) Cerebral Blood Flow Study

O-280 • 3:54:00 PM • Noninvasive Detection of Cortical Glutathione Using 1H MRS: Associations With Brain Amyloidosis and Hippocampal Volumes

O-281 • 4:02:00 PM • PET-Guided MR Spectroscopy Reveals Distinct Relations Between Brain Metabolites, Amyloid, and Hypometabolism in Alzheimer’s Disease

O-282 • 4:10:00 PM • Data Mining Detects 3 Parkinson Disease Subgroups with Distinct Clinical Features

O-285 • 4:34:00 PM • MRI Findings in Patients with Alcohol-Related Encephalopathy Syndromes
Wednesday
Room 104A (Main Level)

SESSION 20D

Imaging of MS — White Matter Matters!

O-286 • 3:30:00 PM • Correlation Between Cerebellar Volumetry and Cognitive Status in Primary Progressive Multiple Sclerosis

O-287 • 3:38:00 PM • Improved Precision in Automatic Brain Volume Measurements of Early-Onset Multiple Sclerosis Patients Using Edema Correction

O-288 • 3:46:00 PM • Automated Detection and Characterization of White Matter Lesions on Clinical Brain MRI

O-289 • 3:54:00 PM • Characterization of Multiple Sclerosis Lesions with Diffusion Kurtosis Imaging

O-290 • 4:02:00 PM • Analysis of White Matter Damage in Patients with Multiple Sclerosis by a Novel In Vivo MR Measurement Method of Axon and Myelin

O-291 • 4:10:00 PM • Evaluation of Axonal and Myelin Integrity with Advanced MRI Methods in Multiple Sclerosis

O-292 • 4:18:00 PM • Characterization of MS Lesions Using Multi-Contrast 7Tesla MRI: A Longitudinal Study

O-293 • 4:26:00 PM • Evaluation of Normal Appearing White Matter in Multiple Sclerosis Using Quantitative Susceptibility Mapping and Diffusion Tensor Imaging

O-294 • 4:34:00 PM • Assessing the Central Vein Sign in Multiple Sclerosis on Different 3T MR Scanners

Wednesday
Room 104B (Main Level)

SESSION 20E

Imaging of Headache, Across the Pressure Spectrum

O-295 • 3:30:00 PM • Gadolinium Contrast Does Not Add Value to Brain MRI in the Evaluation of Primary Headache

O-296 • 3:38:00 PM • Arterial Spin Labelling Imaging in Migraine with Aura: Report of a Series of 33 Adult Patients

O-297 • 3:46:00 PM • Chief Complaint “Headache” with Initially Normal Imaging and Follow-up Within 9 days: Low Yield of Repeat Parenchymal Imaging but Unexpectedly High Rate of Unruptured Aneurysms on Vascular Imaging

O-298 • 3:54:00 PM • Layer Cake Skull in Patients with Spontaneous Intracranial Hypotension

O-299 • 4:02:00 PM • Idiopathic Intracranial Hypertension: Cranial MRI Findings In Correlation With Direct Venous Sinus Pressure Measurements

O-300 • 4:10:00 PM • The Value of Non Invasive MR Venous Imaging in Idiopathic Intracranial Hypertension: Comparison to Catheter Venography and Manometry

O-301 • 4:18:00 PM • Pressure Maps of Normal and Variant Dural Sinuses Derived from 4D Flow MRI Velocity Measurements (PC VIPR)

O-302 • 4:26:00 PM • Characterization of Pre/Post Shunt Normal Pressure Hydrocephalus Pathology with Diffusion Kurtosis Imaging

O-303 • 4:34:00 PM • Transverse Sinus Stenting for Idiopathic Intracranial Hypertension: A Review of 29 Cases

Wednesday
Room 104C (Main Level)

SESSION 20F

Pediatric Problems... Can you Solve Them?

E-74 • 3:30:00 PM • Quantitative and Qualitative Measurements of Flow in Vein of Galen Malformations Using PCVIPR

E-75 • 3:34:00 PM • Brain MRI Findings in Poorly Controlled Homocystinuria

E-76 • 3:38:00 PM • Osteopetrosis in a Pediatric Patient With Altered Mentation

E-77 • 3:42:00 PM • Asymmetric Degos Disease

E-78 • 3:46:00 PM • Hemophagocytic Lymphohistiocytosis, a Rare Case with a Myriad of MRI Findings

E-79 • 3:50:00 PM • Rare Hemorrhagic Complication in a Pediatric Patient With Fatal West Nile Viral Encephalitis

E-80 • 3:54:00 PM • Callosal Agenesis with Interhemispheric Cyst: Heterogeneous Group of Disorders Not a Single Malformation
E-81 • 3:58:00 PM • Duplicated Pituitary Gland with Multiple Midline Craniofacial Anomalies: A Case Report

E-82 • 4:02:00 PM • Pediatric Patient with Van Wyk and Grumbach Syndrome: Case Report Including Imaging and Clinical Findings

E-83 • 4:06:00 PM • Primary Amenorrhea — An Uncommon Presentation of Obstructive Hydrocephalus

E-84 • 4:10:00 PM • A Multimodality Presentation of Pallister-Hall Syndrome

E-85 • 4:14:00 PM • The First Reported Case of Intraventricular Lymphatic Malformation

E-86 • 4:18:00 PM • MRI and MR Spectroscopy Findings of Creatine Deficiency Syndromes

E-87 • 4:22:00 PM • Newborn Facial Mass as a Rare Presentation of Subcutaneous Fat Necrosis

E-88 • 4:26:00 PM • High Grade Glioma in Children with NF1: Pictorial Review and Discussion

E-89 • 4:30:00 PM • Supratentorial CAPNON + Meningioma: Collision or Collusion?

E-90 • 4:34:00 PM • A Rare Case of Pediatric Intracranial Ganglioneuroblastoma

E-91 • 4:38:00 PM • Primary Diffuse Leptomeningeal Primitive Neuroectodermal Tumor (PDL-PNET): a Challenging Diagnosis in Pediatric Population: Case Report and Review of Literature

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Wednesday
Room 102BC (Main Level)

SESSION 20H

Mixture of Interest

O-313 • 3:30:00 PM • Corrected Clivo-Axial Angle

O-314 • 3:38:00 PM • CT-Fluoroscopic Guided Suboccipital Puncture

O-315 • 3:46:00 PM • Unilateral Leukoencephalopathy is Frequently Associated with Parry-Romberg Syndrome and Linear Scleroderma en Coup de Sabre

O-316 • 3:54:00 PM • Cerebellar Hemispheric Medulloblastoma Molecular Subtypes: Imaging Features and Application of ADC Histogram for Diagnosis

O-317 • 4:02:00 PM • Ischemic Stroke and Intracranial Hemorrhage in Glioblastoma Multiforme Patients Treated With Bevacizumab

O-318 • 4:10:00 PM • Incidence of Dural Venous Sinus Thrombosis in Patients With Glioblastoma Multiforme

O-319 • 4:18:00 PM • Radiation Dose at Site of Subventricular Recurrence Predicts Glioblastoma Survival

O-320 • 4:26:00 PM • Cytoreduction Following Proton Beam Radiotherapy for Partially Resected and Unresected Oligodendroglioma and Oligoastrocytoma
O-321 • 6:30:00 AM • Impact of Needle Parameters on the Measurement of Opening Pressure With Lumbar Puncture

O-322 • 4:42:00 PM • Intradural Extramedullary Cavernous Malformation With Extensive Superficial Siderosis of the Neuraxis: Case Report and Review of Literature

O-465 • 4:50:00 PM • Efficacy of Combination Antiretroviral Therapy and CNS Penetration Efficacy Index in Preventing and Assessing Progressive Neurodegeneration in Chronic HIV Infection

Wednesday
Room 103 (Main Level)

SESSION 21C

Cancer of the Head and Neck: Reality Check — From the Rare to the Response

O-323 • 5:00:00 PM • Extracranial Esthesioneuroblastoma: Imaging Spectrum

O-324 • 5:08:00 PM • Unique Trilateral Spread Pattern of Squamous Cell Carcinoma Arising From Inverted Papilloma From the Nasopharynx to the Bilateral Mastoids via Eustachian Tubes

O-325 • 5:16:00 PM • Perineural Tumor Spread Mimicking Benign Disease: Contribution of Radiology to Diagnosis Versus Misdiagnosis

O-326 • 5:24:00 PM • Accuracy of Computed Tomography (CT) and Magnetic Resonance Imaging (MRI) in Determining Depth of Invasion for Squamous Cell Carcinoma of the Oral Tongue

O-327 • 5:32:00 PM • Calcified Lymph Nodes in Head and Neck Cancer: Predictor of HPV Positivity?

O-328 • 5:40:00 PM • Head and Neck Squamous Cell Carcinoma: What Is the Necessary Extent of Anatomic Imaging in Patients Undergoing PET-MRI?

O-329 • 5:48:00 PM • Use of Likert Scale for Qualitative PET Interpretation of Primary Head and Neck Tumor Response to Radiotherapy

O-330 • 5:56:00 PM • Brain Pathology Initially Identified on Whole Body FDG PET-MRI

O-331 • 6:04:00 PM • Significance of New Mucosal Uptake on Post-Radiation Therapy FDG PET/CT in Patients With Head and Neck Squamous Cell Carcinoma

O-332 • 6:12:00 PM • Diagnostic Accuracy of Intraoperative Transoral Ultrasound-Guided Fine-Needle Aspiration Biopsy of Retropharyngeal Masses

O-333 • 6:20:00 PM • Simulation of Flexible Fiberoptic Laryngoscopy Utilizing 3D Printing: Custom Soft Exchangeable Larynx Models

Wednesday
Room 104A (Main Level)

SESSION 21D

Aneurysm Treatment Conversion to Diversion... When and Why?

O-338 • 5:32:00 PM • The Role of Hemodynamics in Intracranial Bifurcation Arteries After Aneurysm Treatment With Flow-Diverting Stents

O-339 • 5:40:00 PM • Transient In-Stent Stenosis at Mid-Term Angiographic Follow-Up in Patients Treated With Flow Diversion: Incidence, Clinical Significance and Long-Term Follow-Up

O-340 • 5:48:00 PM • Optimized 4D pcMRI Protocol for Quantifying Velocity Changes in Cerebral Aneurysms Post Flow Diverter Device Treatment

O-341 • 5:56:00 PM • Outcome Study of the Pipeline Embolization Device for Treatment of Intracranial Aneurysms at a Single UK Institution

O-342 • 6:04:00 PM • Classification of Pipeline Flow Diverter Endoleaks

O-344 • 6:20:00 PM • Use Of Pipeline Flow Divers In Management Of Internal Carotid Blowout Caused By Endonasal Sinus Surgery

Wednesday
Room 104B (Main Level)

SESSION 21E

Cost-Effective Imaging in the Era of the Triple Aim

O-345 • 5:00:00 PM • Comparative Effectiveness of CT/MRI Utilization in Stroke Imaging: Does Increasing Duration of Time Between Stroke Onset and Imaging Improve CT Predictive Values?

O-346 • 5:08:00 PM • Economic Impact of Intra-Arterial Therapy for Acute Ischemic Stroke in the US: Marketscan Database Analysis

O-347 • 5:16:00 PM • Institution of Multidisciplinary Telestroke Program at Multicenter Integrated Health Care System Leads to Marked Improvement in Clinical and Radiological Performance Metrics

O-348 • 5:24:00 PM • Mobile Stroke Treatment Unit Effect on Key Time Related Imaging Metrics
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<thead>
<tr>
<th>Session Time</th>
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<tbody>
<tr>
<td>5:32:00 PM</td>
<td>O-349 • CT Imaging for Pediatric Headache</td>
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<tr>
<td>5:40:00 PM</td>
<td>O-350 • Overuse of Repeat Noncontrast Head Computed Tomography</td>
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<tr>
<td>5:48:00 PM</td>
<td>O-351 • Evaluation of Educational Sessions and the Use of Radiology Support, Communication and Alignment Network Platform in Reducing Inappropriate Imaging for Uncomplicated Low Back Pain</td>
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<tr>
<td>5:56:00 PM</td>
<td>O-352 • Imaging Reduction Via Blood Pressure Control: Impact of Hypertension on Neuroimaging in a Healthcare Population</td>
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<td>6:04:00 PM</td>
<td>O-353 • Magnetic Resonance Imaging and Vagal Nerve Stimulators: Published Guidelines vs Clinical Practicality</td>
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<td>6:12:00 PM</td>
<td>O-354 • Clinical Usefulness of Brain Imaging for First Episode Psychosis</td>
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<tr>
<td>6:20:00 PM</td>
<td>O-355 • Comparison of Results Generated by Three Automated Segmentation Software Programs for Estimation of Brain Cortical and Subcortical Volumes</td>
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**Wednesday**

Room 203AB (Upper Level)

**SESSION 21G**

**More Aneurysm Management: Dealing with the Unruptured and Unknown**

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<th>Session Time</th>
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<tbody>
<tr>
<td>5:00:00 PM</td>
<td>O-356 • Optimal Imaging Strategies and Follow-up in Patients with Unruptured Intracranial Aneurysms</td>
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<tr>
<td>5:08:00 PM</td>
<td>O-357 • Growth and Rupture Risk of Small Unruptured Intracranial Aneurysms: A Systematic Review and Meta-Analysis</td>
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<tr>
<td>5:16:00 PM</td>
<td>O-358 • Management of Tiny Unruptured Intracranial Aneurysms: A Cost-Effectiveness Analysis</td>
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<td>5:24:00 PM</td>
<td>O-359 • Hydrogel Versus Bare Platinum Coils in Patients with Large or Recurrent Aneurysms Prone to Recurrence After Endovascular Treatment (PRET): A Randomized Controlled Trial</td>
</tr>
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<td>5:32:00 PM</td>
<td>O-360 • The Barrel Stent: New Treatment Option for Stent Assisted Coiling of Wide-Neck Bifurcation Aneurysms: Results of a Single Center Study</td>
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<td>5:40:00 PM</td>
<td>O-361 • Web Treatment in Acutely Ruptured Aneurysms</td>
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<td>5:48:00 PM</td>
<td>O-362 • A Computational Fluid Dynamics (CFD) Study of WEB Treated Aneurysms: Can CFD Predict WEB “Compression” During Follow-Up?</td>
</tr>
<tr>
<td>5:56:00 PM</td>
<td>O-363 • Relationship Between MR-DWI-Positive Lesions and Symptomatic Ischemic Complications After Coiling of Ruptured Intracranial Aneurysms</td>
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<tr>
<td>6:04:00 PM</td>
<td>O-364 • Has Endovascular Treatment for Intracranial Aneurysm Reached Technical Maturity?</td>
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<td>6:12:00 PM</td>
<td>O-365 • Anterior Communicating Artery Aneurysms Post-Treatment Recurrence is Associated with Anatomic Variations of the Anterior Cerebral Artery and Aneurysm Configuration</td>
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<td>6:20:00 PM</td>
<td>O-366 • Reproducibility of Microcatheter Tip Position in Patient-Specific Aneurysm Models</td>
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**Wednesday**

Room 102BC (Main Level)

**SESSION 21H**

**Dissection Collection and CTA Today**

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<tr>
<th>Session Time</th>
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<tbody>
<tr>
<td>5:00:00 PM</td>
<td>O-367 • Diagnostic Utility of CT Angiogram in Giant Cell Arteritis</td>
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<tr>
<td>5:08:00 PM</td>
<td>O-368 • Carotid Calcium Score Correlation With Internal Carotid Artery Stenosis Using Non-Contrast CT and CT Angiography</td>
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<tr>
<td>5:16:00 PM</td>
<td>O-369 • The Effect of CT Angiography on Patient Management and Prognosis in the Setting of Trauma</td>
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<tr>
<td>5:24:00 PM</td>
<td>O-370 • MR Vessel Wall Imaging of Blunt Cerebrovascular Injury identified on CT Angiography: A Preliminary Study</td>
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<tr>
<td>5:32:00 PM</td>
<td>O-371 • Stroke Risk After Blunt Cerebrovascular Injury With Dissection</td>
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<tr>
<td>5:40:00 PM</td>
<td>O-372 • Hyperintense Acute Reperfusion Marker (HARM): The Possibility of Recognizing Early Blood-Brain Barrier Disruption on CT Imagin</td>
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<tr>
<td>5:48:00 PM</td>
<td>O-373 • MRI-Detection of Intramural Hematoma in Carotid and Vertebral Artery Dissection: Head-to-Head Comparison of T1-Weighted Sequences</td>
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<tr>
<td>5:56:00 PM</td>
<td>O-374 • Motion Corrected Dynamic Contrast Enhanced (DCE)-MRI of Carotid Plaque</td>
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<td>6:04:00 PM</td>
<td>O-375 • Head and Neck Angiographic Findings of Patients Presenting With Spontaneous Coronary Artery Dissection</td>
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<td>Thursday</td>
<td>Room 104B (Main Level)</td>
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<tr>
<td><strong>SESSION 23E</strong></td>
<td>Imaging Issues, Quality and Safety: Making the Most of Dose, and More!</td>
</tr>
<tr>
<td>O-378 • 9:00:00 AM • Natural Language Processing for Classification of Acute, Communicable Findings on Head CT Reports: Comparison of Non-Neural and Neural Network Machine Learning Techniques</td>
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<tr>
<td>O-377 • 9:08:00 AM • Machine Learning Enables Automated Identification of Severe Central Canal Stenosis on Lumbar Spine MRI With High Accuracy</td>
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<tr>
<td>O-376 • 9:16:00 AM • Semi-Automated Evaluation of Lumbar Spine MRI for Differentiating Benign and Malignant Vertebral Body Compression Fractures: a Machine Learning Experiment</td>
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<tr>
<td>O-379 • 9:24:00 AM • Simulating Low-Dose Head CT Imaging Through Noise Algorithms</td>
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<td>O-380 • 9:32:00 AM • Detection-Based Spectral CT Scanner Yields Image Quality Improvement With Virtual Monoenergetic Reconstructions Compared to Conventional Unenhanced Head CT Utilizing Identical Radiation Dose</td>
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<td>O-381 • 9:40:00 AM • Evaluation of the Temporomandibular Joint Degeneration by Ultra-Low-Dose Maxillofacial CT Using Spectral Shaping</td>
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<td>O-382 • 9:48:00 AM • Maxillofacial CT with Spectral Shaping for Assessing Different Anatomical Landmarks: Radiation Dose and Image Quality</td>
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<tr>
<td>O-383 • 9:56:00 AM • Reducing Radiation Dose for High-Resolution Flat-Panel CT Imaging of Superior Semicircular Canal Dehiscence</td>
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<td>O-384 • 10:04:00 AM • Rapid Acquisition Cone-Beam Computerized Tomography (Dyna CT)</td>
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<td>O-385 • 10:12:00 AM • Comparison of Radiation Doses Imparted During Multislice and Cone Beam Computed Tomography for the Postoperative Cochlear Implant Assessment</td>
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<td>O-386 • 10:20:00 AM • Analysis of Heterogeneity in T2-Weighted MR Images Can Differentiate Pseudoprogression from Progression in Glioblastoma</td>
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<tr>
<td>O-387 • 10:28:00 AM • Impact of Dose Reduction on CT Simulation Planning Scans for Whole Brain Radiation Therapy</td>
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<tr>
<th>Thursday</th>
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<tr>
<td><strong>SESSION 23F</strong></td>
<td>MR and CT Perfusion Imaging: Going with the Flow and What We Know</td>
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<tr>
<td>O-388 • 9:00:00 AM • Novel Automated MR Sequence for Acquisition of Combined Dynamic Susceptibility Contrast (DSC) and Dynamic Contrast Enhanced (DCE) MR Perfusion Using a Single Contrast Dose: Clinical Application in Brain Tumor Analysis</td>
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<tr>
<td>O-389 • 9:08:00 AM • Comparison of MRI Perfusion Hemodynamic Models: Normal Saline Transient Hemodilution vs Dynamic Susceptibility Weighted (Gd)</td>
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<td>O-390 • 9:16:00 AM • Robust Volumetric Non-Contrast Perfusion Imaging of the Whole Brain Using a 3D TSE Acquisition</td>
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<td>O-391 • 9:24:00 AM • Comparison of Delay Sensitive and Delay Insensitive CT Perfusion Methods in Acute Ischemic Stroke and Their Variability According to Location of Critical Stenosis</td>
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<tr>
<td>O-392 • 9:32:00 AM • Validation of Cerebral Blood Flow in Moyamoya Disease by Arterial Spin Labeling MRI and [15O]-Water PET With Simultaneous PET/MRI</td>
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<tr>
<td>O-393 • 9:40:00 AM • A Method for Quantitative Cerebrovascular Reserve: Animal Study</td>
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<td>O-394 • 9:48:00 AM • A Method for Quantitative Cerebrovascular Reserve: A Human Study</td>
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<td>O-395 • 9:56:00 AM • Bedside Near-Infrared Spectroscopy for Detecting Coma-Related Disruption of Resting State Connectivity</td>
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<td>O-396 • 10:04:00 AM • Rabbit Model of Human Gliomas: Implications for Intra-Arterial Drug Delivery</td>
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<td>O-397 • 10:12:00 AM • T1 DCE MR Perfusion in Differentiation of Benign and Malignant Brain Lesions</td>
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<td>O-398 • 10:20:00 AM • Correlation of Perfusion Computed Tomography (PCT) Parameters with Pathologic Grading of Intracranial Gliomas</td>
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<tr>
<th>Thursday</th>
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<tr>
<td><strong>SESSION 23G</strong></td>
<td>Advanced Imaging for Best Assessment</td>
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<tr>
<td>O-399 • 9:00:00 AM • Increased Traumatic Brain Injury Lesion Visibility Using Total Field Inversion Quantitative Susceptibility Mapping (TFI QSM)</td>
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</table>
O-400 • 9:08:00 AM • Quantitative Susceptibility Mapping of the “Swallow Tail” and the Deep Gray Matter Nuclei in Parkinson Disease

O-401 • 9:16:00 AM • ZOOMED NODDI of the Adult Cervical Spinal Cord

O-402 • 9:24:00 AM • Pushing the Limits of Synthetic MRI in the Evaluation of Patients with Multiple Sclerosis: How Much Can the Total Exam Time Be Reduced?

O-403 • 9:32:00 AM • Evaluation of Brain’s Viscoelasticity Using MR-Elastography

O-404 • 9:40:00 AM • Seeing the Unseen, Revealing and Quantifying Brain Motion

O-406 • 9:56:00 AM • Diagnostic Performance of Reformatted Isotropic Thin-Section Helical CT Images in the Detection of Superior Semicircular Canal Dehiscence

O-408 • 10:12:00 AM • CT CoPilot Improves Sensitivity to Changes in Ventricular Volume in Shunted Patients

O-409 • 10:20:00 AM • Theoretical and Empirical Evidence of Voltage Sensitivity of Macrocyclic Gadolinium-Based Contrast Agents Within Physiologic Ranges

Thursday
Room 102BC (Main Level)

SESSION 23H

Stroke: Core Concepts, Clots, and Collaterals

O-410 • 9:00:00 AM • Measurement of Infarct Core Volume Using Automated Computed Tomography Perfusion Processing Software (Rapid) and Comparison With DWI in Stroke Patients in a Daily Practice Population

O-411 • 9:08:00 AM • Where is CT-ASPECTS Discrepant With Pretreatment DWI Core Infarct?

O-412 • 9:16:00 AM • ASPECTS Derived From CTA Source Images Better Predicts CT Perfusion Lesion Core Volume, Target Mismatch Profile, and Good Clinical Outcome

O-414 • 9:32:00 AM • Evaluating Late Acute to Subacute Infarcts Using Quantitative T1rho MR Imaging

O-415 • 9:40:00 AM • Estimation of Infarction Volume Using CT Perfusion: Comparison Between Bayesian and Singular-Value Deconvolution Postprocessing

O-416 • 9:48:00 AM • In Acute Stroke, Clots Visualized by Thin Slice NECT Imaging Do Not Match the Contrast Gap in CT Angiography

O-417 • 9:56:00 AM • Relatively Poorer Outcomes in Post-Revascularization M2 Branch Occlusions: Secondary to an Antecedent, More Proximal Occlusion

O-418 • 10:04:00 AM • M2 Trunk Occlusion: An M1-M2 Anatomic Variant with Greater Collateral Potential but Greater Lenticulostriate Risk

O-419 • 10:12:00 AM • Hyperdense Middle Cerebral Artery Sign: A Revisit

O-421 • 11:00:00 AM • A New Radiological Tool for Diagnosis of Pseudotumor Cerebri (PTC) on Routine Brain CT Study

O-422 • 11:08:00 AM • Retinography as a Model for Studying Chemotherapy-Induced Neuropathy: Proof of Concept in an Induced Glaucoma Model

O-423 • 11:16:00 AM • Retrolaminar Migration of Intraocular Silicone Oil Detected on CT: Not Uncommon Phenomenon

O-424 • 11:24:00 AM • The “Black Turbinate Sign” — A Potential Diagnostic Pitfall: Evaluation of the Normal Enhancement Patterns of the Nasal Turbinates

O-425 • 11:32:00 AM • Rapid MR Evaluation of Rhinosinusitis - A Potential Paradigm Shift

O-426 • 11:40:00 AM • Identification of Hormone Secreting Pituitary Adenomas Through Direction of Growth Analysis

O-427 • 11:48:00 AM • MRI of Neonatal Brachial Plexus Birth Palsy

O-429 • 12:04:00 PM • Are 4D CT Studies Too Sensitive?
Thursday
Room 104A (Main Level)

**SESSION 24D**

**Pediatric Neuroradiology: Exploring Beneath the Surface**

**O-430 • 11:00:00 AM** • MRI Radiomic Features as Biomarkers to Predict Autism Spectrum Disorder

**O-431 • 11:08:00 AM** • Diffusion MR of the Auditory Pathway From Brainstem to Cortex and its Correlation With Conduction Velocity in Autism Spectrum Disorder

**O-432 • 11:16:00 AM** • Assessment of Rates of Reportable Language Mapping with Magnetoencephalography (MEG) in a Presurgical Pediatric Population

**O-433 • 11:24:00 AM** • Cognitive Phenotypes and Brain Network Architecture: Overcoming the Obstacle of Population Heterogeneity in Children With Focal Epilepsy

**O-434 • 11:32:00 AM** • The Use of Hippocampal Volumetric Measurements to Improve Diagnostic Accuracy in Pediatric Patients with Mesial Temporal Sclerosis

**O-435 • 11:40:00 AM** • The Structural Connectome of the Human Brain in Children with Tuberous Sclerosis Complex

**O-436 • 11:48:00 AM** • Optimized Morphometric Analysis Program (MAP) in Pediatric Pharmacoresistant Epilepsy: Preliminary Results From a Prospective Study

**O-437 • 11:56:00 AM** • Non-Homotopic Callosal Fibers: Depiction by DTI and Preliminary Gene Testing

**O-438 • 12:04:00 PM** • MR Perfusion in Pediatric Pres}

Thursday
Room 104B (Main Level)

**SESSION 24E**

**Glial Tumors — A Deep Dive**

**O-443 • 11:32:00 AM** • MR Imaging Characterization of Multicentric Glioblastoma Multiforme and Correlation with Genetic Markers

**O-444 • 11:40:00 AM** • Non-Invasive, Contrast-Exempt Perfusion Assessment of High-Grade Gliomas

**O-445 • 11:48:00 AM** • Comparison of MR Imaging Phenotype and Molecular Genotype Between Solitary and Multicentric Glioblastoma Multiforme

**O-446 • 11:56:00 AM** • Radiogenomic Analysis of TERT Promoter Mutation Status and Blood-Brain-Barrier Permeability in Patients with Glioblastoma

Thursday
Room 104C (Main Level)

**SESSION 24F**

**Understanding the Adult Brain**

**E-92 • 11:00:00 AM** • Imaging Features of Meningeal Myelomatosis: A Case Series

**E-93 • 11:04:00 AM** • Disseminated Leptomeningeal Hemangioblastomatosis Without a History of Von Hippel-Lindau

**E-94 • 11:08:00 AM** • Radiologic Presentation of Posterior Fossa Dermoid

**E-95 • 11:12:00 AM** • Solitary Fibrous Tumor/ Hemangiopericytoma: A Companion Case Discussion of a Spectrum of Rare CNS Mesenchymal Tumors and Their Evolving WHO Classification

**E-96 • 11:16:00 AM** • Epithelioid Glioblastoma With Osseous Metastases

**E-97 • 11:20:00 AM** • Central Neurocytoma of the Fourth Ventricle

**E-98 • 11:24:00 AM** • Third Ventricular Cavernoma: A Case Report

**E-99 • 11:28:00 AM** • A Case of Lymphomatosis Cerebri: Radiology/Pathology Correlation

**E-100 • 11:32:00 AM** • Rosette-Forming Glioneuronal Tumour (RGNT): A Case With Unusual Imaging Presentation

**E-101 • 11:36:00 AM** • Pituitary Metastasis From Lung Carcinoma Presenting With Optic Tract Edema

**E-102 • 11:40:00 AM** • Diverticulum of The Infundibulum: An Anatomic Variant

**E-103 • 11:44:00 AM** • An Unexpected Presentation of Multiple Myeloma in a Young Man with a Large Intracranial Mass

**E-104 • 11:48:00 AM** • Use of Ferumoxytol as a MRI Contrast Agent in a Case of Post-transplant Lymphoproliferative Disorder

**E-105 • 11:52:00 AM** • Adult on Extracorporeal Membrane Oxygenation Therapy Being Evaluated for Acute Stroke
### Thursday Room 102BC (Main Level)

#### SESSION 24H

**Metastases — Imaging Makes a Difference**

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<tr>
<td>O-448 11:00:00 AM</td>
<td>Semi-Automated Assessment for Distinguishing Glioblastoma and Solitary Brain Metastasis on MRI: A Machine Learning Approach</td>
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<tr>
<td>O-449 11:08:00 AM</td>
<td>Does Multiphase Contrast-Enhanced FLAIR MRI Enhance the Detectability of Small and Micro Brain Metastases in Non-Small Cell Lung Cancer Patients</td>
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<tr>
<td>O-450 11:16:00 AM</td>
<td>Detecting Additional Brain Metastases at Time of Stereotactic Radiosurgery: Double-Dose Gadolinium Contrast Changes Management and Prognosticates Clinical Outcomes</td>
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<tr>
<td>O-451 11:24:00 AM</td>
<td>Efficacy of Maximum Intensity Projection of Contrast-Enhanced 3D Turbo-Spin Echo Imaging With Improved Motion-Sensitized Driven-Equilibrium Preparation in the Detection of Brain Metastases</td>
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<tr>
<td>O-452 11:32:00 AM</td>
<td>Melanoma Patients With Isolated Cerebral Susceptibility Artifacts: Are They Metastases?</td>
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<tr>
<td>O-453 11:40:00 AM</td>
<td>Assessment of Intratumoral Vascularity Obtained by Arterial Spin Labeling to Differentiate Between Dural Metastases and Menigiomas</td>
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### Thursday Room 103 (Main Level)

#### SESSION 25C

**Head and Neck: Nodal Disease and Other Hot Topics**

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<tr>
<td>O-466 1:30:00 PM</td>
<td>Dual Energy CT Iodine Quantification of Metastatic Versus Non-Metastatic Lymph Nodes in Squamous Cell Carcinoma of the Head and Neck</td>
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**Thursday**
Room 104B (Main Level)

**SESSION 25D**

**Good Techniques in Diagnosing Bad Tumors**

- **O-477** • 1:30:00 PM • Machine Learning Accurately Identifies Advancing Tumor Grade in Follow-Up of Patients With Low Grade Glioma

- **O-478** • 1:38:00 PM • Recurrent Glioblastoma Pathologically Proven in Subtle Hyperperfused Regions Otherwise Appearing Normal on Conventional Imaging

- **O-479** • 1:46:00 PM • Multi-Center Study Finds Postoperative Residual Non-Enhancing Component of Glioblastoma as a New Determinant of Patient Outcome

- **O-480** • 1:54:00 PM • Tumor Vascular Pattern on MRI as a Biomarker for Predicting Survival in Newly Diagnosed Glioblastoma

- **O-481** • 2:02:00 PM • Model-Free Parameters of DCE-MRI With Texture Analysis Better Correlate With Malignancy of Glioma

- **O-482** • 2:10:00 PM • Utility of Arterial Spin Labeling as a Noncontrast Perfusion Technique in the Evaluation of High Grade Gliomas

- **O-483** • 2:18:00 PM • Differentiation Between Glioblastoma and Primary CNS Lymphoma: Qualitative and Quantitative Analysis Using Arterial Spin Labeling MR Imaging

- **O-484** • 2:26:00 PM • Imaging Characteristics of Gliosarcoma With Special Emphasis On Dural Involvement At Initial Presentation and At Recurrence

- **O-485** • 2:34:00 PM • MR Features Associated With Glioma Mutation Count: Potential Biomarkers for Immunotherapy Response

- **O-486** • 2:42:00 PM • Diffusion Basis Spectrum Imaging With Extended Isotropic Spectrum (DBSI-EIS): Initial Experience in the Evaluation of Gliomas

- **O-487** • 2:50:00 PM • Radiation Necrosis and Pseudoprogression in Adults With Gliomas Treated With Proton Beam Radiotherapy

**Thursday**
Room 104A (Main Level)

**SESSION 25E**

**Finding the Fun in Functional Imaging**

- **O-488** • 1:30:00 PM • FMRI Atlas for Control Comparison of 6 Neurofunctional Regions Using Standardized Neuropsychological Tests

- **O-489** • 1:38:00 PM • Functional MRI and Handedness: The Need for Pre-Surgical fMRI Language Localization

- **O-490** • 1:46:00 PM • Functional MRI (fMRI) and WADA Testing for Dominant Language Localization at an Academic Hospital: Evolving Utilization Trends

- **O-491** • 1:54:00 PM • Comparison of Task-vs-Blind Seed Based Analysis and Region-of-Interest Based Analysis in the Accuracy of Resting-State fMRI Language Networks in Brain Tumor Patients

- **O-492** • 2:02:00 PM • Resting-State fMRI in Presurgical Planning for Brain Tumors: Correlation With Task Based Motor and Language Paradigms
Thursday
Room 104C (Main Level)

SESSION 25F
Head and Neck Puzzles to Ponder

E-112 • 1:30:00 PM • Case Report of a Chylous Neck Collection Following Radical Neck Dissection

E-113 • 1:34:00 PM • A Case of Cervical Thymoma: Ectopic or Arising from Residual Cervical Thymus?

E-114 • 1:38:00 PM • Uncommon Radiographic Features of Metastatic Nodal Disease in the Neck

E-115 • 1:42:00 PM • Bilateral Temporalis Muscle Denervation in a Patient with Myasthenia Gravis

E-116 • 1:46:00 PM • Reproducible Monocular Blindness with Head Turning Secondary to a Vascular Eagle Syndrome

E-117 • 1:50:00 PM • Panophthalmitis With Corneal Melt and Herniation of the Lens: A Case Report With Clinical, Imaging and Pathologic Correlation

E-118 • 1:54:00 PM • Common Tumor, Very Rare Location

E-119 • 1:58:00 PM • Localized Nasopharyngeal Amyloidosis

E-120 • 2:02:00 PM • Unique Case of Benign Metastasizing Pleomorphic Adenoma

E-121 • 2:06:00 PM • Primary Mucosal Melanoma of the Lacrimal Sac and Nasolacrimal Duct: A Case Report

E-122 • 2:10:00 PM • Primary Intranasal Esthesioneuroblastoma With Maxillary Sinus Metastatic Disease

E-123 • 2:14:00 PM • Multicentric Myofibromatosis Involving the Head and Neck

Thursday
Room 203AB (Upper Level)

SESSION 25G
MS: Making a Fair Call — Flair for Flare? But That’s Not All!

O-499 • 1:30:00 PM • Follow-Up of Emergency Department MRI Scans Suggesting New Diagnosis of CNS Demyelination

O-500 • 1:38:00 PM • Quantitative MRI in Multiple Sclerosis: Assessing Tissue Damage Using T1, Magnetization Transfer and Diffusion Tensor Imaging

O-501 • 1:46:00 PM • Comparative Study of Linear and Volumetric Brain Atrophy Measures in MS Patients: Preliminary Results of a Cross-Sectional and Longitudinal Analysis

O-502 • 1:54:00 PM • Impact of Cortical Lesion Evolution and Volume Changes on the Disease Process in High-Inflammatory Relapsing-Remitting Multiple Sclerosis Patients — A 16 Months Follow-Up Study

O-503 • 2:02:00 PM • Comparison of Lesions in Multiple Sclerosis by 2D and 3D FLAIR Sequences

O-504 • 2:10:00 PM • Lesion Detection in Multiple Sclerosis - Comparison Between Inverse Grayscale Magnetization Prepared Rapid Gradient Echo (MPRAGE), 2D T2 and 2D Fluid Attenuation Inversion Recovery (FLAIR) Sequences
<table>
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<tr>
<th>Time</th>
<th>Title</th>
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<tbody>
<tr>
<td>2:18:00 PM</td>
<td>FLAIR Fusion in Multiple Sclerosis Follow-Up: An Unavoidable Tool for Private Practice</td>
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<tr>
<td>2:26:00 PM</td>
<td>Longitudinal Qualitative and Quantitative Evaluation of Pre-Contrast MR Diffusion Weighted Imaging in Predicting Multiple Sclerosis Activity and Reducing Potential Risk of Gadolinium Deposition in Patients with Multiple Sclerosis</td>
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<tr>
<td>2:34:00 PM</td>
<td>3D Phase Sensitive Inversion Recovery for Spinal MS Lesion Detection</td>
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<td>2:42:00 PM</td>
<td>Overlapping Phenotypes Between MS and Genetic Leukoencephalopathies: a Systematic MR Analysis</td>
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<td>2:50:00 PM</td>
<td>A Pilot Study of PBR-111: A TSPO Agent in the Cuprizone Mouse Model of MS</td>
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**Thursday**
Room 102BC (Main Level)

**SESSION 25H**

**Avoiding Strikes in Stroke... Can We Improve Our Batting Average?**

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<thead>
<tr>
<th>Time</th>
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<tr>
<td>1:30:00 PM</td>
<td>Multiparametric CT Perfusion to Determine the Collaterals Status in Patients With Acute Ischemic Stroke: A New Perfusion Index</td>
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<tr>
<td>1:38:00 PM</td>
<td>CT Angiography (Early and Delayed Phase) Vs CT Perfusion for the Diagnosis And Treatment of Stroke</td>
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<tr>
<td>1:46:00 PM</td>
<td>Time To Peak in the Evaluation of Patients With Minor Stroke and Distal Vessel Occlusion</td>
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<tr>
<td>1:54:00 PM</td>
<td>Aspects Reporting: Standardizing CT Brain Stroke Protocol Evaluation to Better Patient Triage, Enhance Final Outcomes and Promote Research</td>
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<tr>
<td>2:02:00 PM</td>
<td>Diffusion- and Perfusion-Weighted Imaging Alone May be Sufficient to Triage Acute Ischemic Stroke Patients for Endovascular Therapy</td>
</tr>
<tr>
<td>2:10:00 PM</td>
<td>MR Perfusion to Identify Candidates More Suitable To Endovascular Reperfusion Therapy Than Intravenous Thrombolysis in Middle Cerebral Artery Occlusion</td>
</tr>
<tr>
<td>2:18:00 PM</td>
<td>Perforator Dilatation After Thrombectomy of Proximal MCA Occlusions: A Novel Sign to Improve Outcome Prediction</td>
</tr>
<tr>
<td>2:26:00 PM</td>
<td>A Review of Recent Evidence in Thrombectomy for Ischemic Stroke</td>
</tr>
<tr>
<td>2:34:00 PM</td>
<td>Response to Mechanical Thrombectomy Among Late MR Selected LVO Candidates</td>
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<tr>
<td>2:50:00 PM</td>
<td>Image Processing to Improve Conspicuity and Contrast-to-Noise Ratio of Infarcting Gray Matter</td>
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</table>
ASNR continues to have a Greener Meeting …

ASNR is making efforts to achieve a greener meeting at the 55th Annual Meeting & The Foundation of the ASNR Symposium 2017. ASNR Executive Committee and volunteers need your help:

- Preview the abstract presentations in advance of the meeting at www.asnr.org by using the program planner.
- Registration badges will NOT be mailed; pick up your badge onsite on the Promenade Lobby (Main Level).
- Evaluate for CME via web link or at the CME Pavilion in Room 203C (Upper Level).

Go green with ASNR!

Green Meetings at the Long Beach Convention & Entertainment Center

Winners of 2010 & 2011 Waste Reduction Award from the California Department of Resthierce Recycling and Recovery (CalRecycle)
- Lawn cutting and plant materials are composted by their landscaping contractor.
- In addition, all of their disposable plates, napkins, and flatware are made of biodegradable and compostable materials. Food products that are eligible for consumption after an event are turned over to a local group for distribution to individuals/groups in need.
- Decor is planned around using items that will be reused, recycled or renewed, such as live plants, river stones, & other natural elements that will not be thrown away after use. We want to provide every opportunity to preserve their resthierces for future generations.
- Motion sensors control lighting in all meeting rooms of the facility.
- Tennant scrubber does not use chemicals and waste product is biodegradable.
- Outdoor landscaping includes wood chip like product made out of recycles tires. (Approximately (600) 20 lb. automobile tires were saved from landfills).

Green Meetings at the Hyatt Regency Long Beach Hotel

The Hotel's Green Team meets quarterly in order to ensure that all action steps are being followed to reduce negative consequences to the environment.
- Hydration Stations available in Lobby and on all guest floors to refill reusable bottled waters.
- Voluntary towel and sheet reuse program allowing guests how often their towels and sheets are refreshed during their stay.
- All faucets, toilets, and showers in the hotel meet the California Standard while still providing high quality water flow.

Green Meetings at the Westin Long Beach Hotel

The Westin Long Beach is actively participating in the following to integrate environmental practices and sustainability principles into our core business strategy:
- You Make the Choice Program: A display card is placed in each guestroom allowing the guest to choose if he/she would like the linens and towels laundered every day.
- Towels and Toiletries: The Hotel has limited the number of towels and toiletries in each guestroom. Items can be replenished upon request.
- Energy Efficient Lighting: CFL bulbs are installed in all guestrooms of the Hotel.
- Water Conservation: Faucet aerators and low flow toilets are installed in all guestrooms of the Hotel.
- Biodegradable cups are placed in all guestrooms: made from corn, these cups are environmentally sustainable and 100% compostable.
- Recycle: The hotel recycles paper, cardboard, glass, metal, newspapers, and aluminum cans. Soon to come are separate bins in guestrooms for recycling paper and plastic.
- Chemical free and environmentally friendly sponges are being used in Housekeeping.
- Passport Bus: Complimentary transportation provided to all guests around Downtown Long Beach provided by City of Long Beach.

Go green with ASNR!
The Foundation of the ASNR Awards

2016 Boerger Research Fund for Alzheimer’s Disease and Neurocognitive Disorders
Rahul Desikan, MD, PhD

Multi-Dimensional Prediction of Alzheimer’s Disease Risk
Amount funded: $230,865 (2 years)
Institution: University of California, San Francisco

Sterling C. Johnson, PhD

Tau, Amyloid and Cerebral Vascular Health in People at Risk for Alzheimer’s Disease
Amount funded: $100,000 (1 year)
Institution: University of Wisconsin School of Medicine and Public Health

Meng Law, MD, MBBS, FRACR

Multi-Shell HARDI/FOD and Structural MRI of White and Gray Matter Connectomics with Allopregnanolone Regenerative Therapy in MCI and Alzheimer’s Disease
Amount funded: $205,945 (2 years)
Institution: University of Southern California

David J. Mikulis, MD
Bruce A. Wasserman, MD

Developing an Imaging Biomarker for Alzheimer’s Dementia Based on Vascular Dysfunction
Amount funded: $229,650 (2 years)
Institution: Toronto Western Hospital, University of Toronto
Institution: Johns Hopkins School of Medicine

Jeffrey R. Petrella, MD

High-Resolution Intracortical DTI for Early Detection of Alzheimer’s Disease
Amount funded: $230,426 (2 years)
Institution: Duke University School of Medicine
The Foundation of the ASNR Awards (continued)

2016-2017 Trainee Research Award in Neuroradiology
Thien Huynh, MD, MSc, FRCPC
University of Washington
Correlation of Vulnerable Aneurysm Characteristics on Multi-contrast Vessel Wall Computational Fluid Dynamic MRI with Histologic Findings at the Time of Surgical Clipping of Unruptured/Unstable Aneurysms

2016-2017 AJNR Editorial Fellowship
Daniel Sing-Yunn Chow, MD
University of California, Irvine

2017 Outstanding Contributions in Research Award
Jeffrey G. Jarvik, MD, MPH
University of Washington

2017 Scholar Award in Neuroradiology Research
Gloria J. Guzmán Pérez-Carrillo, MD, MSc
University of Arizona
Diffusion Weighted Imaging for the Evaluation of Post-Treatment Squamous Cell Carcinoma in the Neck: Imaging Optimization and a New Quantative and Qualitative Assessment Metric

Jana Ivanidze, MD
New York-Presbyterian Hospital- Weill Cornell Medical College
Radiogenomics of Blood Brain Barrier Damage in Aneurysmal Subarachnoid Hemorrhage

2017 Research Scientist Award in Neuroradiology
Cuihua Wang, PhD
Institute for Innovation in Imaging-Massachusetts General Hospital
Mapping the In Vivo Relationship Between Neuroinflammation and Amyloid Deposition in Alzheimer’s Disease
The Foundation of the ASNR Awards (continued)

2017 Comparative Effectiveness Award
Timothy J. Amrhein, MD
Duke University Medical Center
Comparison of Cervical Transforaminal Epidural Corticosteroid Injections with Lateralized Interlaminar Epidural Corticosteroid Injections for Treatment of Cervicogenic Upper Extremity Radiculopathy

2017 Women in Neuroradiology Leadership Award
To Be Announced at a Later Date

2017 ASNR Gold Medal Award
Robert D. Zimmerman, MD, FACR
New York Presbyterian Hospital

2017 ASNR Honorary Member
Paul M. Parizel, MD, PhD
University of Antwerp

2017 ASNR Cornelius G. Dyke Memorial Award
Aikaterini Kotrotsou, PhD
MD Anderson Cancer Center

2017 J. Arliss Pollock Memorial Award
R. Adams Dudley, MD
University of California, San Francisco
ASNR 2018 – 56th Annual Meeting
June 2 - 7 • Vancouver Convention Centre East
Vancouver, B.C., Canada

ASNR 2019 – 57th Annual Meeting
May 18 – 23 • Hynes Convention Center • Boston, Massachusetts

ASNR 2020 – 58th Annual Meeting
May 30 – June 4 • Caesars Palace • Las Vegas, Nevada

ASNR 2021 – 59th Annual Meeting
May 22 – 27 • San Francisco Marriott Marquis • San Francisco, California

ASNR 2022 – 60th Annual Meeting
May 13 – 18 • New York Hilton Midtown • New York, New York

ASNR 2023 – 61st Annual Meeting
April 29 – May 4 • Sheraton Grand Chicago • Chicago, Illinois
PROGRAM CONTRIBUTORS

PLATINUM LEVEL

BAYER

BRACCO
LIFE FROM INSIDE

GOLD LEVEL

PHILIPS

TOSHIBA MEDICAL

SILVER LEVEL

imagination at work

iSchemaView
RAPID

SIEMENS
Healthineers