

# #ASSR19



# 2019



## American Society of **SPINE RADIOLOGY** *Annual Symposium*

**FEBRUARY 20-24, 2019**  
INTERCONTINENTAL MIAMI • MIAMI, FLORIDA

*23.0 AMA PRA CATEGORY 1 CREDIT(S)<sup>TM</sup>*

Specific sessions will be submitted to the ABR for SAM qualification.



from the **PRESIDENT** and **PROGRAM CHAIR**

Dear Friends,  
So, how well do you know spine? As a practicing academic neuroradiologist, spine imaging comprises up to 50% of my academic practice. I keep up to date by fastidiously reading journals, participating in multi-specialty conferences with my medical colleagues, but find that targeted meetings are the best way to keep up to date with my knowledge base, learn new and innovative techniques in my field, as well as meet and collaborate with experts

from around the world in the field of spine imaging and interventions.

I would like to invite you to the 2019 Annual Meeting of the American Society of Spine Radiology which will be held in Miami, Florida, February 20-24th, 2019, at the Intercontinental Miami in Downtown Miami.

The ASSR is the pre-eminent society in Radiology related to the imaging diagnosis and image guided treatment of spine disorders. National and international experts in the field of Neuroradiology, Musculoskeletal Radiology, Pediatric Radiology, Pain Management, and Spine Interventions will be participating in this meeting to review topics relevant to you in both academic and private practice that you can immediately utilize and implement in your programs. Basic and advanced spine interventional topics include vertebroplasty, kyphoplasty, pain management procedures, use of stimulators, and ablation techniques will be covered. Topics relevant to your practice including spine trauma and emergencies, spine vascular imaging, degenerative spine,

infectious and inflammatory disorders, new and upcoming imaging techniques, spine oncology, pediatric spine, as well as sessions on advancements in computer post processing techniques, 3D printing, and artificial intelligence will be covered. A special Vascular Imaging Symposium has also been included which I would like to dedicate to Brian C. Bowen, PhD, MD, our 11th past President, who passed away last year.

Truly an international meeting, our society is in collaboration with the European Society of Neuroradiology and SILAN, the Latin American Radiology Society, with speakers from both groups participating in our meeting.

Miami in February is a great time to come with average temperatures in the low 80's during the day and low 60's at night. The Intercontinental Miami is set in the heart of Downtown's thriving financial and business district, with 641 guestrooms and breathtaking views of Biscayne Bay. The hotel has undergone major renovations and is a stunning state-of-the-art hotel — located by the hot Brickell shopping district — as well as Museum Row. Little Havana, the Arts district, and South Beach are minutes away from the hotel. A free tram is across the street from the hotel which can take you to the museums and the famous Brickell shopping area.

I am truly excited about this meeting and know that you will love the sessions that the Program Committee and I have created. Submission of abstracts for oral paper presentation and electronic exhibits will begin soon. Mark your calendars and I look forward to seeing old friends and making new ones in February, 2019!

Best regards,  
John L. Go, MD, FACR  
ASSR President and Program Chair

## ABOUT THE SYMPOSIUM

The ASSR 2019 Annual Symposium, #ASSR19, will provide a forum for presentation and discussion of new and important developments in spine radiology and spine interventions. Typically organized focus sessions will concentrate on various aspects of diagnostic and interventional spine techniques. Nationally and internationally recognized experts will share their experiences through didactic lectures, discussions and case-based reviews. Speakers and Moderators are by design multidisciplinary including interventional, musculoskeletal and neuroradiologists, spine surgeons, pain management physicians and oncologists. Scientific sessions will address the newest applications and techniques in spine imaging and intervention, while Electronic Educational Exhibits will help to reinforce and review new concepts. In addition, the oral scientific paper sessions will present new and exciting investigations in spine research. Special sessions will target trainees and young investigators and clinical development.

**Diagnostic Spine Sessions** will highlight the latest in advanced imaging across a wide variety of topics including infectious disease, oncologic imaging/management, etiology of pain generators, spine trauma diffusion tensor imaging and MR neurography.

**Interventional Spine Sessions** will give participants the opportunity to review and master basic and advanced spine interventional skills, covering topics such as novel augmentation procedures, epidural therapeutics, advanced nerve blocks and tumor ablation techniques. There will be an in-depth update about the current technology and indications for spinal cord and peripheral nerve stimulators, pain pumps and regenerative cellular treatments.

**Economics and Healthcare Policy:** Our meeting will feature a dedicated session on economics and health care policy specifically pertinent to spine specialists. This CME session will include presentations on billing and coding, just culture, MOC, MACRA and potential futuristic spine health care models.

**Multidisciplinary Clinical Case Management Conference:** Moderators will lead panels of experts from multiple disciplines to present and discuss spine management dilemmas with regard to the role of diagnostic imaging and minimally invasive spine procedures. The sessions will illustrate best practice scenarios that highlight the outcomes and economic benefits of comprehensive multidisciplinary spine care.

**Non-CME Vendor-Sponsored Breakfast & Learn and Lunch & Learn Sessions** will complement the formal scientific program and will address specific technical advances in imaging and/or interventional procedures and products.

**Interventional Roundtable for Trainees and Aspiring Interventional Spine Physicians** will provide a forum for attendees to interact with interventional experts and vendors in an informal non-CME setting, to discuss best practices for starting and sustaining a successful spine intervention practice (attendance will be limited!).

**Non-CME Vendor-Sponsored Spine Procedures Workshops** will feature the latest technologies.

*No special educational preparation is required for this CME activity.*

## EDUCATIONAL OBJECTIVES

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

- Review some of the controversies in diagnostic and interventional spine including discography, discogenic pain, the utility of cervical epidurals, the impact of IR residency programs on spine radiologists, when to image degenerative pain, the use of CT or fluoroscopy for image guided procedures, and the common nomenclature for degenerative spine.
- Review the basics and pathophysiology of spine trauma and the imaging of traumatic and nontraumatic injuries to the spine in the emergency room setting and learn the new AO classification and TLIC score for spinal trauma.
- Review various vascular lesions of the spine as well as learning basic and techniques in CTA and MRA to image these lesions.
- Discuss updates on imaging and treatment of spinal cord injury and the utility of advanced imaging techniques to image the spinal cord. Special consideration regarding children and athletes will also be included.
- Demonstrate an increased understanding of basic and advanced techniques of vertebral augmentation that can be used in your daily practice as well as innovative treatments for spinal stenosis, CSF leak, and percutaneous discectomy.
- Understand new imaging techniques to image the spine including dual energy CT, high field MRI, new MR pulse sequences on the horizon, diffusion tensor imaging, perfusion imaging of the spinal cord, and new techniques to image the disc.
- Learn how to implant and perform advanced interventional techniques including the use of stimulators, pumps, interspinous spacers, different type of ablation techniques including cryoablation, RF ablation, microwave ablation, and basivertebral nerve ablation, as well as the MILD technique.
- Gain a better understanding about spine conditions in the pediatric population including open and closed spinal dysraphisms, trauma, tumor, vascular lesions, syndromes in children, drop metastasis imaging, as well as unusual and rare disorders in children.
- Develop greater understanding healthcare policy relevant to you and your practice including an update on policy, MACRA, Medicaid and the spine radiologist, CPT and RUC basics, ways to optimize your practice, utilization management, and alternative spinal care models.
- Review topics in degenerative spine including implants and devices, describing neural foraminal and spinal stenosis, spondyloarthropathies, and post-operative imaging, as well as ancillary findings in spine that you don't want to miss when reviewing studies.
- Learn about advanced computer techniques being used now or the near future including artificial intelligence and 3D printing, as well as reviewing cognitive errors which can lead to misinterpretation or missed findings.
- Review the basics of regenerative medicine including the use of stem cells, PRP, and Spersanza treatment, as well as an update on multiple sclerosis and spine infection.
- Discuss topics in spine oncology including assessment and reporting of metastasis as well as advanced imaging of bony metastasis, hematologic metastasis and the imaging of post treatment complications to the spine and spinal cord.



## TARGET AUDIENCE

This CME activity is primarily intended and designed to educate radiologists, neuroradiologists, musculoskeletal radiologists, interventional radiologists, spine surgeons, pain management and rehabilitation physicians, anesthesiologists, as well as fellows and residents in these specialties. Course material is also aimed at allied health professionals, including physician assistants and nurse practitioners who specialize, or have particular interest, in conditions affecting imaging and treatment of the spine.

## ACCREDITATION STATEMENT

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of the International Institute for Continuing Medical Education, Inc. and The American Society of Spine Radiology (ASSR).

## DESIGNATION STATEMENT

The International Institute for Continuing Medical Education, Inc. designates this live activity for a maximum of **23.0 AMA PRA Category 1 Credits™ and 10 SAMs credits** (pending ABR approval). Physicians should claim only the credit commensurate with the extent of their participation in the activity.

## REGISTRATION INFORMATION

Registration includes all symposium materials, including a comprehensive electronic syllabus, continental breakfasts, refreshment breaks, Breakfast & Learn and Lunch & Learn Sessions, Workshops and all lectures. Family members and friends, ages 12 years and older, who wish to attend social functions which include the Welcome Reception, Continental Breakfasts and the Closing Party may do so by register-

ing for the Symposium. The fee for each guest is \$150.00. Vendor-sponsored, unaccredited Workshops will require separate registrations directly through the vendor. Early registration is strongly suggested. Cancellations must be received in writing. A \$75.00 processing fee will be applied to all cancellations. Refunds requested in writing prior to January 20, 2019 will be issued for the amount of registration fee less the \$75.00 processing fee. No refunds will be made on or after that date.

## EASY WAYS TO REGISTER

**INTERNET:** To register log on to: <http://www.iicme.net> or [www.theassr.org](http://www.theassr.org).

**FAX:** Fax your completed registration form to (205) 467-0195. Please be sure to include your MasterCard, VISA, American Express or Discover credit card information, including signature and expiration date. This is all that is necessary; please do not mail a duplicate form.

**MAIL:** Mail your completed registration form, including credit card information or check payable to ASSR 2018 to: International Institute for Continuing Medical Education, Inc., P.O. Box 350, Springville, AL 35146.

## INFORMATION

For more information or questions regarding the ASSR 2019 Annual Symposium, contact Kelsey Rodgers at 205-467-0290, ext 108, or [kroders@iicme.net](mailto:kroders@iicme.net).

## DISCLAIMER

The International Institute for Continuing Medical Education, Inc. and the ASSR as planners and presenters of this meeting claim no liability for the acts of any suppliers or the safety of any attendees while in transit to, from, or during this event or any optional activities. The total amount of liability, if

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## MIAMI POINTS OF INTEREST

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There's no shortage of things to do in Miami, but we've come up with ten things that will be of interest to anyone who visits.

**SOUTH BEACH TOURS** — Miami's South Beach neighborhood features 10 miles of beaches with a buzzing, carnival-like atmosphere. With a trendy Caribbean-chic cafe culture and an impossibly hip and sexy nightlife scene, the area is a non-stop people-watching mecca, especially on Ocean Drive, where you'll find the popular stretch of sand at Lummus Park Beach. Another main highlight is the set of pastel-hued structures on Collins Avenue in the Art Deco District, home to the largest concentration of Art Deco architecture in the world. Head to lovely Lincoln Road to shop, or wander the beach promenade between Fifth and Fifteenth streets.

**LITTLE HAVANA TOURS** — Vibrant Cuban culture permeates every aspect of the Little Havana neighborhood of Miami, Florida—you'll find it in the colorful murals, the monuments to heroes past and present, the residents facing off in the domino park as they discuss politics, and in the cigar rollers at work amidst the ever-present aroma of Cuban coffee.

**EVERGLADES NATIONAL PARK TOURS** — Sandwiched between the sizzling beaches of Miami and the white sands of Key West, the 1.5 million-acre Everglades National Park stands in stark contrast to its seductive neighbors—but don't make the mistake of passing it by. Visit the park and discover for yourself the spectacular swampy weirdness that draws over one million visitors every year and constitutes a one-of-a-kind destination for nature lovers.

**BISCAYNE NATIONAL PARK TOURS** — Biscayne National Park, 95 percent of which lies underwater, is one of the top scuba diving areas in the United States. Divers and snorkelers flock here to experience Biscayne Bay's extensive reef system. Above water, you can explore the Florida park's small mainland mangrove shoreline and keys by boat.

**BAYSIDE MARKETPLACE TOURS** — Bayside Marketplace, a vibrant waterfront mall in downtown Miami—and the city's most-visited attraction—sits above Biscayne Bay and features many shopping, dining, and entertainment options. The open-air market has more than 100 shops ranging from apparel to bath products to electronics, and often live performers are on hand to keep shoppers entertained.

**MIAMI BEACH BOTANICAL GARDENS TOURS** — Since 1962 this 2.6-acre urban oasis has provided locals and travelers with easy access to some of the most

diverse plant life on earth. Visitors can wander the well-kept grounds where lush green lawns with glittering fountains and stone paths lead the way to impressive atriums filled with colorful blossoms.

**MIAMI SEAQUARIUM TOURS** — The Miami Seaquarium is a world-class marine-life entertainment park located on the island of Virginia Key in Biscayne Bay, Florida. The 38-acre tropical paradise features a variety of marine life such as dolphins, killer whales, sea lions, endangered sea turtles, manatees, stingrays, and much more. With more than a dozen interactive and educational exhibits, the Seaquarium is guaranteed fun for the whole family.

**ZOO MIAMI TOURS** — Miami boasts an excellent zoo, thanks in part to a subtropical climate that allows for large swathes of natural habitat. Inside Zoo Miami (formerly Miami Metrozoo), more than 200 species roam the cageless surrounds; don't worry, the animals are kept at bay by cleverly designed moats.

**CORAL CASTLE MUSEUM TOURS** — The Coral Castle Museum in Miami, Florida, is a castle and stone garden surrounded in mystery. It was built from 1923 to 1951 by Edward Leedskalnin, who was originally from Latvia and stood at just over five feet tall and weighed only 100 pounds. Despite his small size, he worked alone to build his castle during a time before modern construction equipment. His creations were carved out of more than 1,100 tons of coral rock, and he worked at night so no one saw how he built it—people began to say he had supernatural powers. All Ed would ever say was that he knew "the secret of the pyramids." His secrets died with him.

**JUNGLE ISLAND TOURS** — Jungle Island (formerly Parrot Jungle Island) is a glorious homage to tourism kitsch. This is one of those places kids beg to go, so just give up and prepare for some bright-feathered, bird-scented fun. Actually, the 18 acre waterfront facility, lushly landscaped and using a minimum of pesticides, is pretty impressive, thanks in part to the parrots, macaws, flamingos, and cockatoos flying about in outdoor aviaries. You can even see animals in action, as Jungle Island host a number of shows starring roller-skating cockatoos, card-playing macaws, and numerous stunt-happy parrots. Nearby is Pinecrest Gardens, which has a petting zoo, mini-water park, and a lake.

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**PROGRAM SCHEDULE (Subject to change) — ALL JOINT SESSIONS LOCATED IN VERSAILLES BALLROOM**

**TUESDAY, FEBRUARY 19, 2019**

4:00 – 6:00 pm Registration Opens — Satellite Registration Area (Level 2 Mezzanine)

**WEDNESDAY, FEBRUARY 20, 2019**

7:00 – 7:50 am Registration — Satellite Registration Area (Level 2 Mezzanine)

7:00 – 7:50 am Continental Breakfast for Registrants — Mezzanine / Foyer Area

7:00 – 7:50 am Breakfast and Learn — TBD (non-accredited) — Versailles Ballroom

7:55 – 8:00 am Welcome and Dedication . . . . . John L. Go, MD, FACR

**JOINT SESSION 1: CONTROVERSIES IN SPINE • Moderators: Caren Jahre, MD and Carl E. Johnson, MD**

8:00 – 8:20 am	Discography . . . . .	Walter S. Bartynski, MD
8:20 – 8:35 am	Discogenic Pain: Does it Exist . . . . .	Gregory J. Lawler, MD
8:35 – 8:50 am	Cervical Epidurals: Should We Do Them? . . . . .	Timothy J. Amrhein, MD
8:50 – 9:05 am	IR Residency Programs: How Will It Affect Spine Radiologists? . . . . .	Jay Acharya, MD
9:05 – 9:20 am	Degenerative Disease: When to Image? . . . . .	Johan W. Van Goethem, MD, PhD
9:20 – 9:35 am	CT vs Fluoroscopy for Needle Guided Procedures . . . . .	Amish H. Doshi, MD
9:35 – 9:50 am	Nomenclature . . . . .	Stephen L.G. Rothman, MD
9:50 – 10:00 am	Questions & Answers . . . . .	Faculty
10:00 – 10:30 am	Refreshment Break / Visit Exhibits — Mezzanine / Foyer Area	

**BREAK-OUT SESSION I**

**Interventional Session I: Basic Spine Procedures (Trianon Ballroom)**

Moderators: Tim J. Amrhein, MD and Gregory J. Lawler, MD

10:30 – 10:45 am	Why Needle Injections (Epidurals, Facet Blocks, and Nerve Blocks) . . . . .	Todd S. Miller, MD
10:45 – 11:00 am	Complications of Spine Procedures . . . . .	Richard Silbergleit, MD, MBA
11:00 – 11:15 am	Sympathetic Blocks . . . . .	Wade H.M. Wong, DO, FACR, FAOCR
11:15 – 11:30 am	Spine Biopsies . . . . .	Ashok Srinivasan, MD
11:30 – 11:45 pm	Interventional Scientific Oral Presentations . . . . .	TBD
11:45 – 12:00 pm	Questions and Answers . . . . .	Faculty

**Diagnostic Session I: Next Gen Imaging – Spine Emergencies (Versailles Ballroom)**

Moderators: Benjamin A. Cohen, MD and Sylvie Destian, MD

10:30 – 10:40 am	Biomechanics of Spinal Trauma . . . . .	Bohdan W. Chopko, MD, PhD
10:40 – 10:50 am	Cervical Trauma . . . . .	Majda M. Thurnher, MD
10:50 – 11:00 am	Thoracic and Lumbar Trauma . . . . .	Jennifer L. Becker, BMBS, MRCS, FRCR
11:00 – 11:10 am	Craniocervical Junction Trauma . . . . .	John L. Go, MD, FACR
11:10 – 11:20 am	Whiplash Injury . . . . .	Edward P. Quigley III, MD, PhD
11:20 – 11:30 am	Nontraumatic Spine Emergencies . . . . .	Carlos H. Torres, MD, FRCPC
11:30 – 11:40 am	AO Classification and TLIC Score . . . . .	Jason F. Talbott, MD, PhD
11:40 – 11:55 pm	Diagnostic Scientific Oral Presentations . . . . .	TBD
11:55 – 12:00 pm	Questions and Answers . . . . .	Faculty

12:00 – 1:00 pm Lunch & Learn Session — TBD (non-accredited) — Versailles Ballroom or Lunch On Your Own

**JOINT SESSION 2: VASCULAR IMAGING SYMPOSIUM (SAM SESSION) • Moderators: Gregory E. Punch, MD and Matthew S. Parsons, MD**

1:00 – 1:15 pm	Vascular Anatomy of the Spine . . . . .	Gregg H. Zoarski, MD
1:15 – 1:30 pm	CTA . . . . .	Paul E. Kim, MD
1:30 – 1:45 pm	MRA . . . . .	Marco Pinho, MD
1:45 – 2:00 pm	Vascular Malformations of the Spinal Cord . . . . .	Gordon K. Sze, MD, FACR
2:00 – 2:15 pm	Vascular Injury of the Cord: Imaging Findings . . . . .	Michele H. Johnson, MD, FACR, FASER
2:15 – 2:30 pm	Case-Based Review of Vascular Lesions of the Spine . . . . .	Reade DeLeacy, MBBS
2:30 – 2:45 pm	SAM Questions . . . . .	Faculty
2:45 – 3:15 pm	Refreshment Break / Visit Exhibits — Mezzanine / Foyer Area	
3:15 – 3:45 pm	Annual Business Meeting (ASSR Members Only) — Versailles Ballroom	
3:45 – 4:45 pm	Interventional Roundtable for Trainees and Aspiring Interventional Spine Physicians (non-accredited) — TBD	
5:00 – 6:30 pm	Workshop 1 (non-accredited) — TBD (non-accredited) — Versailles Ballroom	

6:30 – 7:15 pm Women with Spine Reception — TBD (non-accredited)

7:00 – 9:00 pm Welcome Reception — Plaza Level Lower Deck



## THURSDAY, FEBRUARY 21, 2019

7:00 – 7:55 am Sign-In / Continental Breakfast for Registrants — Mezzanine / Foyer Area  
7:00 – 7:55 am Breakfast and Learn Session — TBD (non-accredited) — Versailles Ballroom

### JOINT SESSION 3: PAST PRESIDENT'S SESSION: PAST, PRESENT, AND FUTURE • Moderators: John L. Go, MD, FACR

8:00 – 8:10 am Gold Medal Award  
8:10 – 8:30 am Gold Medal Oration  
8:30 – 9:00 am Past . . . . . M. Judith Donovan Post, MD, FACR  
9:00 – 9:30 am Present . . . . . Orlando Ortiz, MD, MBA, FACR  
9:30 – 10:00 am Future . . . . . Meng Law, MD, MBBS, FRACR  
  
10:00 – 10:30 am Refreshment Break / Visit Exhibits — Mezzanine / Foyer Area

### SPECIAL JOINT SESSION 4: MULTIDISCIPLINARY CASE MANAGEMENT CONFERENCE

10:30 – 12:00 pm Multidisciplinary Case Management Conference . . . . . Kent B. Remley, MD (Moderator)  
Panel: Gregory J. Lawler, MD; Peter Kranz, MD; Cynthia T. Chin, MD; and Bohdan W. Chopko, MD, PhD  
  
12:00 Free Afternoon

## FRIDAY, FEBRUARY 22, 2019

7:00 – 7:55 am Sign-In / Continental Breakfast for Registrants — Mezzanine / Foyer Area  
7:00 – 7:55 am Breakfast & Learn Session — TBD (non-accredited) — Versailles Ballroom  
7:55 – 8:00 am Welcome and Dedication

### JOINT SESSION 5: SPINAL CORD INJURY • Moderators: Adam E. Flanders, MD and Nandita Guha-Thakurta, MD

8:00 – 8:20 am Spinal Cord Injury: Update on Management and Treatment in the 21st Century . . . . . Allan D. Levi, MD, PhD  
8:20 – 8:40 am Spinal Cord Injury: Update on Imaging . . . . . Robert M. Quencer, MD  
8:40 – 8:55 am Clearing the Injured Spine . . . . . J. Pablo Villablanca, MD  
8:55 – 9:10 am Is DTI the Missing Link in Spinal Cord Injury? . . . . . Mahmud Mossa-Basha MD, DABR  
9:10 – 9:25 am Spinal Cord Injury in Children . . . . . Jeffrey S. Ross, MD  
9:25 – 9:40 am Clearance for Return to Play in High Performance Athletes . . . . . Adam E. Flanders, MD  
9:40 – 10:00 am Questions and Answers . . . . . Faculty  
  
10:00 – 10:30 am Refreshment Break / Visit Exhibits — Mezzanine / Foyer Area

### BREAK-OUT SESSION II

#### Interventional Session II: Vertebral Augmentation (SAM Session) (Trianon Ballroom)

Moderators: Orlando Ortiz, MD, MBA, FACR and Todd S. Miller, MD

10:30 – 10:50 am Vertebral Augmentation: Total Care of the Vertebral Augmentation Patient . . . . . Keith E. Kortman, MD  
10:50 – 11:10 am Sacral Augmentation: Current Devices and Techniques . . . . . John M. Mathis, MD, MSc  
11:10 – 11:30 am Vertebral Augmentation: Update on Current Evidence . . . . . John D. Barr, MD, FACR, FSIR, FAHA, FSNIS  
11:30 – 11:45 am Interventional Scientific Oral Presentations . . . . . TBD  
11:45 – 12:00 pm Questions and Answers . . . . . Faculty

#### Diagnostic Session II: New Imaging Techniques (SAM Session) (Versailles Ballroom)

Moderators: Meng Law, MD, MBBS, FRACR and Matthew G. Young, DO

10:30 – 10:40 am Dual Energy/Spectral CT . . . . . Reza Forghani, MD, PhD, FRCPC, DABR  
10:40 – 10:50 am High Field MRI . . . . . Timothy M. Shepherd, MD, PhD  
10:50 – 11:00 am New Pulse Sequences . . . . . Roland R. Lee, MD, FACR  
11:00 – 11:10 am Metal Reduction Techniques . . . . . Lawrence N. Tanenbaum, MD, FACR  
11:10 – 11:20 am Imaging the Disc (MRS, T1 rho...) . . . . . Allison Grayev, MD  
11:20 – 11:30 am Diffusion Tensor Imaging of the Spine and Spinal Cord . . . . . Vinil N. Shah, MD  
11:30 – 11:40 am Perfusion Imaging of the Spinal Cord . . . . . Vahe Zohrabian, MD  
11:40 – 11:55 am Diagnostic Scientific Oral Presentations . . . . . TBD  
11:55 – 12:00 pm Questions and Answers . . . . . Faculty

12:00 – 1:00 pm Lunch and Learn Session — TBD (non-accredited) — Versailles Ballroom or Lunch On Your Own

## BREAK-OUT SESSION III

### Interventional Session III: Advanced Interventional Procedures (Trianon Ballroom)

Moderators: John D. Barr, MD, FACR SIR, FAHA, FSNIS and Majid A. Khan, MD

1:00 – 1:10 pm	Spinal Stimulators . . . . .	Olivier Clerk-Lamalice, MD
1:10 – 1:20 pm	DRG Stimulation . . . . .	Bohdan W. Chopko, MD, PhD
1:20 – 1:30 pm	MILD . . . . .	Gregory J. Lawler, MD
1:30 – 1:40 pm	Pain Pumps . . . . .	Ezell Askew, MD
1:40 – 1:50 pm	Interspinous Spacer . . . . .	Douglas P. Beall, MD
1:50 – 2:00 pm	RF Ablation . . . . .	Allan L. Brook, MD, FSIR
2:00 – 2:10 pm	Cryoablation of Tumors . . . . .	Jack W. Jennings, MD, PhD
2:10 – 2:20 pm	Basivertebral Nerve Ablation . . . . .	Dan T.D. Nguyen, MD
2:20 – 2:30 pm	Microwave . . . . .	Majid A. Khan, MD
2:30 – 2:45 pm	Interventional Scientific Oral Presentations . . . . .	TBD
2:45 – 3:00 pm	Questions and Answers . . . . .	Faculty

### Diagnostic Session III: Pediatrics/Infectious and Inflammatory Disorders (Versailles Ballroom)

Moderators: Erin Simon Schwartz, MD and Blair A. Winegar, MD

1:00 – 1:10 pm	Update of Fetal Myelomeningocele Repair . . . . .	Deborah M. Zarnow, MD
1:10 – 1:20 pm	Closed Posterior Spinal Dysraphisms . . . . .	Mai Lan Ho, MD
1:20 – 1:30 pm	Syndromes Associated with the Spine . . . . .	Erin Simon Schwartz, MD
1:30 – 1:40 pm	Pediatric Trauma . . . . .	Pia Maly Sundgren, MD, PhD
1:40 – 1:50 pm	Infection and Inflammation . . . . .	Troy Hutchins, MD
1:50 – 2:00 pm	Tumors in Children . . . . .	William K. Erly, MD, MBA
2:00 – 2:10 pm	Vascular Lesions in Children . . . . .	Anandh G. Rajamohan, MD
2:10 – 2:20 pm	What's Up with Drop Metastasis? . . . . .	Susan Palasis, MD
2:20 – 2:30 pm	Unusual/Rare Cases . . . . .	V. Michelle Silvera, MD
2:30 – 2:45 pm	Diagnostic Scientific Oral Presentations . . . . .	TBD
2:45 – 3:00 pm	Questions and Answers . . . . .	Faculty

3:00 – 3:30 pm Refreshment Break / Visit Exhibits — Mezzanine / Foyer Area

### JOINT SESSION 6: GAMESHOW OR CONTEST: US VS THE WORLD? • Richard H. Wiggins III, MD, CIIP, FSIM

3:30 – 5:00 pm Contest

5:00 – 6:30 pm Workshop 1 — TBD (non-accredited) — Versailles Ballroom

## SATURDAY, FEBRUARY 23, 2019

7:00 – 7:55 am Sign-In / Continental Breakfast for Registrants — Mezzanine / Foyer Area

7:00 – 7:55 am Breakfast & Learn Session — TBD (non-accredited) — Versailles Ballroom

7:55 – 8:00 am Welcome and Dedication

### JOINT SESSION 7: HEALTHCARE POLICY • Moderators: Joshua A. Hirsch, MD, FACR, FSIR, FSNIS and John E. Jordan, MD, FACR

8:00 – 8:20 am	Healthcare Policy Keynote . . . . .	Joshua A. Hirsch, MD, FACR, FSIR, FSNIS
8:20 – 8:35 am	MACRA 2019 . . . . .	Gaurang V. Shah, MD
8:35 – 8:50 am	Medicaid and the Spine Radiologist . . . . .	Raymond K. Tu, MD, MS, FACR
8:50 – 9:05 am	CPT/RUC and You! . . . . .	Melissa M. Chen, MD
9:05 – 9:20 am	Innovating Operations to Optimize Practice . . . . .	Robert M. Sheridan, RTR, FAVIR
9:20 – 9:35 am	Is Utilization Management the Scourge We Believe it to Be? . . . . .	Bassem A. Georgy, MD
9:35 – 9:50 am	Spine Care Models: Optimizing Delivery and Quality for the Next Generation . . . . .	Jeffrey A. Stone, MD, FACR
9:50 – 10:00 am	Questions and Answers . . . . .	Faculty

10:00 – 10:30 am Refreshment Break / Visit Exhibits — Mezzanine / Foyer Area

## BREAK-OUT SESSION IV

### Interventional Session IV: Intervention Spine: Potpourri (Trianon Ballroom)

Moderators: Peter Kranz, MD and Jay Acharya, MD

10:30 – 10:50 am	European Innovations-Spinal Stenosis . . . . .	Luigi Manfre, MD
10:50 – 11:10 am	CSF Leaks . . . . .	Peter Kranz, MD
11:10 – 11:30 am	Percutaneous Discectomy . . . . .	Kent B. Remley, MD
11:30 – 11:45 am	Interventional Scientific Oral Presentations . . . . .	TBD
11:45 – 12:00 pm	Questions and Answers . . . . .	Faculty



## BREAK-OUT SESSION IV (CONTINUED)

### Diagnostic Session IV: Degenerative Spine (SAM Session) (Versailles Ballroom)

Moderators: Lazaro Do Amaral, MD and Lubdha M. Shah, MD

10:30 – 10:40 am	Nomenclature . . . . .	Ryan D. Murtagh, MD
10:40 – 10:50 am	Implants and Devices . . . . .	Alyssa T. Watanabe, MD
10:50 – 11:00 am	Neural Foraminal and Spinal Stenosis Quantification. . . . .	Eric M. Spickler, MD
11:00 – 11:10 am	Post Operative Imaging . . . . .	Puneet S. Pawha, MD
11:10 – 11:20 am	Spondyloarthropathies . . . . .	Gregory W. Petermann, MD
11:30 – 11:40 am	Miscellaneous Findings (Ancillary Findings) . . . . .	Anat Krishnan, MD
11:40 – 11:55 am	Diagnostic Scientific Oral Presentations . . . . .	TBD
11:55 – 12:00 pm	Questions and Answers . . . . .	Faculty

12:00 – 1:00 pm Lunch and Learn Session — TBD (non-accredited) — Versailles Ballroom or Lunch On Your Own

### JOINT SESSION 8: COMPUTERS AND ME (SAM SESSION) • Moderators: Edward P. Quigley III, MD, PhD and Lex Mitchell, MD

1:00 – 1:15 pm	Artificial Intelligence and Machine Learning. . . . .	Nathaniel Swinburne, MD
1:15 – 1:30 pm	AI and Spine: Review of the Literature . . . . .	Richard H. Wiggins III, MD, CIIP, FSIIM
1:30 – 1:45 pm	Structured Reporting . . . . .	Adam E. Flanders, MD
1:45 – 2:00 pm	3D Printing . . . . .	Jonathan M. Morris, MD
2:00 – 2:15 pm	Cognitive Errors. . . . .	Francisco Rivas, MD
2:15 – 2:30 pm	Best Spine Papers of 2017 . . . . .	Lubdha M. Shah, MD
2:30 – 2:45 pm	SAM Questions . . . . .	Faculty

2:45 – 3:15 pm Refreshment Break / Visit Exhibits — Mezzanine / Foyer Area

3:15 – 4:45 pm Workshop 3 — TBD (non-accredited) — Versailles Ballroom

6:00 – 9:00 pm Closing Reception — Bayfront Ballroom

## SUNDAY, FEBRUARY 24, 2019

7:00 – 7:55 am Sign-In / Continental Breakfast for Registrants — Mezzanine / Foyer Area

7:00 – 7:55 am Breakfast & Learn Session — TBD (non-accredited) — Versailles Ballroom

### JOINT SESSION 9: REGENERATIVE MEDICINE/INFECTIOUS AND INFLAMMATORY DISORDERS (SAM SESSION)

Moderators: Anandh Rajamohan, MD and Blake A. Johnson, MD, FACR

8:00 – 8:20 am	Stem Cell Basics . . . . .	William Moore, MD
8:20 – 8:40 am	Disc and Joint . . . . .	Douglas P. Beall, MD
8:40 – 9:00 am	PRP . . . . .	Blake A. Johnson, MD, FACR
9:00 – 9:15 am	Spinraza Treatment . . . . .	Ichiro Ikuta, MD, MMSc
9:15 – 9:30 am	MS and NMOSD: Classic Signs, Diagnostic Criteria and Imaging Updates . . . . .	Juan Pablo Cruz, MD
9:30 – 9:45 am	Parasitic infections of the Spine. . . . .	Lazaro Do Amaral, MD
9:45 – 10:00 am	Questions and Answers . . . . .	Faculty

10:00 – 10:30 am Refreshment Break / Visit Exhibits — Mezzanine / Foyer Area

### JOINT SESSION 10: ONCOLOGY (SAM SESSION) • Moderators: Juan Pablo Cruz, MD and Wende N. Gibbs, MD, MA

10:30 – 11:00 am	Advanced Imaging of Osseous Metastases (DCE, Dixon, Diffusion, Other) . . . . .	Kambiz Nael, MD
11:00 – 11:30 am	Hematological Malignancies . . . . .	Amit Aggarwal, MD
11:30 – 11:45 am	Metastatic Disease Assessment and Reporting. . . . .	Wende N. Gibbs, MD, MA
11:45 – 12:00 pm	Post Treatment Imaging of the Spine: Complications. . . . .	Sophia Symko, MD
12:00 – 12:05 pm	2019 Annual Symposium Summation . . . . .	John L. Go, MD, FACR
12:05 PM	2019 Annual Symposium Concludes	

# Registration Form:



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