



ANNUAL SYMPOSIUM of the AMERICAN SOCIETY of SPINE RADIOLOGY AGENDA

February 23-27, 2022 • Austin, Texas



WEDNESDAY AGENDA

FEBRUARY 23 (8:00 am – 7:00 pm CT)

8:00 am – 10:00 am	Registration for Workshop
4:00 pm – 8:00 pm	Registration for Meeting
HANDS-ON WORKSHOP	
9:45 am – 10:00 am	WELCOME
Session 1: Spine Access and Pain Interventions	
10:00 am – 10:15 am	CT and Fluoro Guided Spine/Disc Access and Interventions <i>Vinil Shah, MD, Travis Hillen, MD</i>
10:15 am – 10:30 am	Therapeutic Spine Pain Interventions <i>Vikas Agarwal, MD, Ed Yoon, MD</i>
10:30 am – 12:00 pm	Hands-on Session NO CME Vertebral Body Access, Bone Biopsy, Injections, Medial Branch Nerve Block
12:00 pm – 1:00 pm	LUNCH (Clinical Update Session)
Session 2: Vertebral and Sacral Augmentation/Implants	
1:00 pm – 1:15 pm	Spinal Augmentation <i>Amish Doshi, MD, Rupert Stanborough, MD</i>
1:15 pm – 1:30 pm	Spinal Implants and Sacroplasty <i>Steven Yevich, MD, MPH, Andy Tomasian, MD</i>
1:30 pm – 3:00 pm	Hands-on Session NO CME Vertebroplasty, Augmentation, Spine Implants, and Sacroplasty
3:00 pm – 3:30 pm	BREAK
Session 3: Advanced Spine Procedures I	
3:30 pm – 3:45 pm	Radiofrequency and Microwave Ablation <i>Majid Kahn, MD, Alan Sag, MD</i>
3:45 pm – 4:00 pm	Basivertebral Ablation and Interspinous Implants <i>Dan Nguyen, MD, Stefano Marcia, MD</i>
4:00 pm – 5:30 pm	Hands-on Session NO CME RF/Microwave/Basivertebral Ablation and Interspinous Implants
6:00 pm – 7:00 pm	Women with Spine Hour Guest Panelist: <i>Linda Gray, MD</i> Panel Discussion: <i>Michele Johnson, MD, Judy Post, MD, Erin Schwartz, MD, Susan Palasis, MD</i>



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THURSDAY AGENDA

FEBRUARY 24 (7:00 am – 8:00 pm CT) PAST: ASSR HISTORY IN SPINE IMAGING AND INTERVENTION	
7:00 am – 8:00 am	BREAKFAST
JOINT SESSION 1 – SPINE GIANT: PAST PRESIDENTS SESSION Moderators: Lubdha Shah, MD and Greg Peterman, MD	
8:00 am – 8:15 am	Michele Johnson, MD
8:15 am – 8:30 am	Wade Wong, MD
8:30 am – 8:45 am	Judy Post, MD
8:45 am – 9:00 am	Orlando Ortiz, MD, MBA, FACR
GOLD MEDAL AWARD	
9:00 am – 9:30 am	Moderators: Michele Johnson, MD and Bassem Georgy, MD
9:30 am – 10:00 am	BREAK
INTERNATIONAL SESSION 1 (PRE-RECORDED LECTURES – continuous loop running all day) ESNR Session - Greetings from Europe!	
	Strange and Rare. A Case-based Review of Spinal Tumors Majda Thurnher, MD (ESNR - Austria)
	Virtual Meetings: What the Audience Wants Gennaro D'Anna, MD (ESNR - Italy)
	Ultrasound Spine Interventions Matteo Bellini, MD
	Percutaneous Treatment of Aneurysmal Bone Cysts Mario Muto, MD
CONCURRENT SESSION DIAGNOSTIC 1 – CLINICAL PERSPECTIVE OF SPINE IMAGING Moderators: Sam Rogers, MD and Greg Lawler, MD	
10:00 am – 10:15 am	Clinical Evaluation of Myelopathy Michael McGinity, MD
10:15 am – 10:30 am	Correlating Clinical Symptoms with Imaging Todd Miller, MD
10:30 am – 10:45 am	Spinal Radiculopathy: What Matters Clinically Vikas Agarwal, MD
10:45 am – 11:00 am	Discogenic Pain: Myth or Reality? Walter Bartynski, MD
11:00 am – 11:15 am	Grading Systems You Should Use and Why Amit Aggarwal, MD
11:15 am – 11:30 am	Your Spine Dictation: Reporting What Matters Wende Gibbs, MD
11:30 am – 11:45 pm	Common Mistakes in Spine Reporting Johan Van Goethem, MD, PhD (ESNR)
11:45 am – 12:00 pm	Abstract 1 Abstract 2
12:00 pm – 12:10 pm	Q&A
CONCURRENT SESSION INTERVENTIONAL 1 – EVOLUTION VERTEBRAL AUGMENTATION Moderators: Ed Yoon, MD and Amish Doshi, MD	
10:00 am – 10:15 am	Vertebral Augmentation – Evidence Based Practice John Barr, MD, FACR, FSIR, FAHA, FSNIS
10:15 am – 10:30 am	Adjacent Level Disease, Biomechanics, Imaging, and Intervention Bassem Georgy, MD
10:30 am – 10:45 am	Morbidity and Mortality Effect From Vertebral Compression Fracture Allan Brook, MD, FACR, FSIR
10:45 am – 11:00 am	New Vertebral Fractures Following Percutaneous Augmentation: Myth or Reality? Dimitri Filippiadis, MD, PhD (ESNR)
11:00 am – 11:15 am	Bone Cement – The Old and The New Amish Doshi, MD
11:15 am – 11:30 am	High Risk Vertebral Augmentation – When There is No Other Option Majid Khan, MD



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THURSDAY AGENDA *continued*

FEBRUARY 24 (7:00 am – 8:00 pm CT)	
PAST: ASSR HISTORY IN SPINE IMAGING AND INTERVENTION	
11:30 am – 11:45 pm	Kyphoplasty with Spine-Jack System: Pain Response and Morphology Improvement Andrés González, MD (SILAN)
11:45 am – 12:00 pm	Abstract 3 Abstract 4
12:00 pm – 12:10 pm	Q&A
12:10 pm – 1:00 pm	LUNCH
JOINT SESSION 2 - NUANCES OF SPINAL ANATOMY AND CLINICAL RELEVANCE	
Moderators: Scott Johnson, MD and Richard Silbergleit, MD	
1:00 pm – 1:25 pm	Complexity of the Craniocervical Junction Nader Dahdeleh, MD
1:25 pm – 1:45 pm	Arterial Anatomy Neeraj Choudhary, MD
1:45 pm – 2:00 pm	Functional Anatomy of the Spinal Cord Allison Grayev, MD
2:00 pm – 2:15 pm	Uncovertebral Joint Complexity Matthew Parsons, MD
2:15 pm – 2:30 pm	Facet Joint: Function and Failure Vinil Shah, MD
2:30 pm – 2:45 pm	2021 ASSR Research Grant Recipient Ashwani Gore, MD
2:45 pm – 3:00 pm	Q&A
3:00 pm – 3:30 pm	BREAK
CONCURRENT SESSION	
DIAGNOSTIC 2 – NUANCES OF THE PEDIATRIC SPINE	
Moderators: Hollie Lai, MD , Aashim Bhatia, MD, MS and Michelle Silvera, MD	
3:30 pm – 3:50 pm	The Immature Spine: Differentiating Normal From Abnormal Laura Hayes, MD
3:50 pm – 4:10 pm	Spinal Dysraphism Made Easy Erin Simon Schwartz, MD
4:10 pm – 4:30 pm	CT vs MR in Pediatric Spine Evaluation Judy Gadde, DO, MBA
4:30 pm – 4:50 pm	Dynamic Cervical Spine MRI Evaluation in Children Neil Lall, MD
4:50 pm – 5:00 pm	Q&A
CONCURRENT SESSION	
INTERVENTIONAL 2 – PEDIATRIC AND PERIPHERAL NERVE INTERVENTIONS	
Moderators: Jack Jennings, MD, PhD and Rupert Stanborough, MD	
3:30 pm – 3:50 pm	Peripheral Nerve Interventions David Prologo, MD, FSIR, ABOM-D
3:50 pm – 4:05 pm	Basivertebral Nerve Ablation: Update of Current Evidence Supporting Its Use Dan Nguyen, MD
4:05 pm – 4:25 pm	Neurostimulation John Michels, MD
4:25 pm – 4:45 pm	Emerging Applications in Neuromodulation Doug Beall, MD, FSIR, FIPP, DAAPM
4:45 pm – 5:00 pm	Pediatric Spine Interventions Travis Hillen, MD
5:00 pm – 5:10 pm	Q&A
6:00 pm – 8:00 pm	OPENING RECEPTION



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FRIDAY AGENDA

FEBRUARY 25 (6:30 am – 8:00 pm CT)
PRESENT: SPINE AS WE KNOW IT

7:00 am – 8:00 am 3rd Annual ASSR Fun Run

7:30 am – 8:30 am BREAKFAST

JOINT SESSION 3 – OPERATIVE AND POSTOPERATIVE SPINE

Moderators: [Patrick Brown, MD](#) and [Kalen Riley, MD](#)

8:30 am – 8:50 am Imaging Advances for the Instrumented Spine [Larry Tanenbaum, MD, FACR](#)

8:50 am – 9:10 am Lumbar Interbody Fusion - Types and How I Decide [John Caridi, MD](#)

9:10 am – 9:30 am Cervical Fusion - Approaches and Hardware [Jonathan Rousuli, MD](#)

9:30 am – 9:50 am Spinal Deformity- Surgical Perspective [Marcus Mazur, MD](#)

9:50 am – 10:00 am Q&A

10:00 am – 10:30 am BREAK

INTERNATIONAL SESSION 2 (PRE-RECORDED LECTURES – continuous loop running all day) SILAN Session

Spine Infections and Differential Diagnosis [Sergio Moguillansky, MD \(Argentina\)](#)

Imaging of Pediatric Cord Tumors [Carlos Rugilo, MD \(Argentina\)](#)

Imaging of Extradural and Extradural Tumors [Carolina Tramontini, MD \(Colombia\)](#)

CONCURRENT SESSION

DIAGNOSTIC 3 – ANOMALIES AND ABNORMALITIES

Moderators: [Susan Palasis, MD](#) and [Jessie Aw-Zoretic, MD](#)

10:30 am – 10:50 am Metabolic Conditions Affecting the Spine in Childhood [Stephen Kralik, MD](#)

10:50 am – 11:10 am Pearls for Scoliosis Imaging [Alexis Maddocks, MD](#)

11:10 am – 11:30 am Prominent Central Canal and Beyond [Elizabeth Ryals, MD](#)

11:30 am – 11:50 am Pediatric Spondyloarthropathies [Jonathan Samet, MD](#)

11:50 am – 12:10 pm So Many Chiari [Kaurna Shekdar, MD](#)

12:10 pm – 12:25 pm Abstract 5
Abstract 6

12:25 am – 12:35 pm Q&A

CONCURRENT SESSION

INTERVENTIONAL 3 – SPINAL CSF

Moderators: [Troy Hutchins, MD](#) and [Jennifer Nathan, MD](#)

10:30 am – 10:50 am Types of CSF Leaks [Vance Lehman, MD](#)

10:50 am – 11:05 am Spinal Imaging in SIH - Why I like DSM [Marcel Maya, MD](#)

11:05 am – 11:20 am Spinal Imaging in SIH- Why I like CT [Tim Amrhein, MD](#)

11:20 am – 11:35 am Superficial Siderosis - The Spinal Connection [Peter Kranz, MD](#)

11:35 am – 11:50 am Blood Patch 101- Anyone Can Do It! [Mike Malinzak, MD, PhD](#)



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FRIDAY AGENDA *continued*

FEBRUARY 25 (6:30 am – 8:00 pm CT)
PRESENT: SPINE AS WE KNOW IT

11:50 am – 12:10 pm	Emerging Treatments for CSF-Venous Fistula Waleed Brinjiki, MD
12:10 pm – 12:25 pm	Abstract 7 Abstract 8
12:25 pm – 12:35 pm	Q&A
12:35 pm – 1:30 pm	LUNCH
CONCURRENT SESSION DIAGNOSTIC 4 – CORD COMPLEXITIES Moderators: Anousheh Saya, MD and Kim Seifert, MD	
1:30 pm – 1:45 pm	Kinked Cord- Herniation, Arachnoid Webs, Arachnoid Cysts Aseem Sharma, MD
1:45 pm – 2:00 pm	Inflammatory Demyelinating Cord Disease: Beyond MS Carlos Torres, MD, FRCPC
2:00 pm – 2:20 pm	Spinal Cord MRI in MS: Prognosis and Monitoring NO CME Alex Rovira, MD (SILAN)
2:20 pm – 2:35 pm	COVID- Spine Manifestations Amit Mahajan, MBBS, MD
2:35 pm – 2:50 pm	Spinal Cord Tumor and Tumor Mimics Puneet Pawha, MD
2:50 pm – 3:05 pm	Multiparametric Evaluation of Spinal Masses John Go, MD, FACR
3:05 pm – 3:20 pm	Abstract 9 Abstract 10
3:20 pm – 3:30 pm	Q&A
CONCURRENT SESSION INTERVENTIONAL 4 – SPINE HODGE PODGE Moderators: Dan Nguyen, MD , Vikas Agarwal, MD and Vinil Shah, MD	
1:30 pm – 1:45 pm	Evaluation of the Back Pain Patient Chris Standaert, MD
1:45 pm – 2:05 pm	Weight-bearing MR Imaging , MR-Guided Procedures, and Spacers: Future of Spinal Interventions Luigi Manfrè, MD (ESNR)
2:05 pm – 2:20 pm	MILD Jason Pope, MD
2:20 pm – 2:35 pm	Regenerative Medicine: Practical Considerations Chris Hancock, MD
2:35 pm – 2:50 pm	US-guided Spine and Peripheral Nerve Interventions: Why US Should be Part of Your Interventional Practices Allison Stout, DO
2:50 pm – 3:05 pm	Vertebral Augmentation Complications – What to do When You're in Trouble Alan Sag, MD
3:05 pm – 3:20 pm	Abstract 11 Abstract 12
3:20 pm – 3:30 pm	Q&A
3:30 pm – 4:00 pm	BREAK
4:00 pm – 5:00 pm	Interventional Roundtable: Experts and Industry One-on-One
5:00 pm – 6:00 pm	Executive Committee Meeting
6:30 pm – 8:30 pm	FACULTY RECEPTION



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SATURDAY AGENDA

FEBRUARY 26 (7:00 am – 8:30 pm CT) FUTURE: ON THE HORIZON OF SPINE IMAGING AND INTERVENTION	
7:00 am – 7:45 am	VIP BREAKFAST WITH ASSR EXECUTIVE COMMITTEE
7:00 am – 8:00 am	BREAKFAST
JOINT SESSION 4 – SPINE ONCOLOGY CURRENT AND THE FUTURE Moderators: Sandra Abi Fadel, MD and Ajay Madhavan, MD	
8:00 am – 8:20 am	Spinal Neoplasm Imaging Advances Ashok Srinivasan, MD
8:20 am – 8:40 am	Radiotherapy Advances Chris Abraham, MD
8:40 am – 9:00 am	Surgical Advances Rakesh Patel, MD
9:00 am – 9:20 am	The Evolving Role of the Neurointerventionalist Jack Jennings, MD, PhD
9:20 am – 9:30 am	Q&A
9:30 am – 10:00 am	BREAK
INTERNATIONAL SESSION 3 (PRE-RECORDED LECTURES – continuous loop running all day) ASEN/IRA Session	
	Behind the Curtain: Infections of the Spinal Cord and Intradural Spaces Deepak Patkar, MD
	Slaying the Dragon: Interventions for Vertebral Malignancies Suyash Kulkarni, MD
	Spine Biopsies: Tricks and Tips Bhavin Jankharia, MD
CONCURRENT SESSION DIAGNOSTIC 5 – SPINE TRAUMA Moderators: Elliott Friedman, MD and Jennifer McCarty, MD	
10:00 am – 10:15 am	Update on Pediatric Spine Trauma Evaluation Manohar Shroff, MD
10:15 am – 10:30 am	Relevance of Trauma Grading Systems Roy Riascos, MD
10:30 am – 10:45 am	MRI in Spine Trauma: Current Controversies Current and Future Innovations Jason Talbott, MD, PhD
10:45 am – 11:00 am	Diffusion Imaging in Spine Trauma: Realistic Biomarker? Mahmud Mossa-Basha, MD
11:00 am – 11:15 am	AI in Real Life: Cervical Spine Fracture and Hemorrhage Detection Ichiro Ikuta, MD
11:15 am – 11:30 am	3D Models in Spine Trauma Edward Quigley, MD, PhD
11:30 am – 11:45 am	Abstract 13 Abstract 14
11:45 am – 12:00 pm	Q&A
CONCURRENT SESSION INTERVENTIONAL 5 – SPINE ONCOLOGY, FIXATION/IMPLANTS Moderators: Travis Hillen, MD and Andy Tomasian, MD	
10:00 am – 10:15 am	Hot Ablation Jay Acharya, MD
10:15 am – 10:30 am	Cold Ablation Andy Tomasian, MD
10:30 am – 10:45 am	Vertebral Augmentation Implants Ed Yoon, MD
10:45 am – 11:00 am	Sacral Augmentation Steven Yevich, MD, MPH
11:00 am – 11:12 am	Update on Injectable Biomaterials Alexis Kelekis, MD (ESNR)
11:20 am – 11:40 am	What's New with Interspinous Spacers? Stefano Marcia, MD (ESNR)
11:40 am – 11:55 am	Abstract 15 Abstract 16
11:55 am – 12:05 pm	Q&A
12:10 pm – 1:00 pm	LUNCH



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SATURDAY AGENDA *continued*

FEBRUARY 26 (6:30 am – 8:00 pm CT) FUTURE: ON THE HORIZON OF SPINE IMAGING AND INTERVENTION

JOINT SESSION 5 – SPINE IMAGING INNOVATIONS

Moderators: [Jared Narvid, MD](#) and [Marco Pinho, MD](#)

1:00 pm – 1:15 pm	Dual Energy CT of the Spine Eric D. Schwartz, MD
1:15 pm – 1:35 pm	Perfusion Imaging Andre Holodny, MD
1:35 pm – 1:50 pm	Bone / ZTE MRI Mai-Lan Ho, MD
1:50 pm – 2:10 pm	High Field MRI Meng Law, MD
2:10 pm – 2:30 pm	Advanced MR Neurography John Carrino, MD, MPH
2:30 pm – 2:45 pm	Top Scoring Abstract 1
	Top Scoring Abstract 2
2:45 pm – 3:00 pm	Q&A
3:00 pm – 3:30 pm	BREAK

JOINT SESSION 6 – THE FUTURE OF SPINE

Moderators: [Paul Kim, MD](#) and [Christie Lincoln, MD](#)

3:30 pm – 3:50 pm	Artificial Intelligence in Spine Surgery Bo Chopko, PhD, MD
3:50 pm – 4:05 pm	Artificial Intelligence Integration in Spine Imaging Adam Flanders, MD
4:05 pm – 4:20 pm	Faster MRI/Machine Learning Noise Reduction Levi Chazen, MD
4:20 pm – 4:35 pm	Technology in Spine Education Richard Wiggins, MD
4:35 pm – 4:55 pm	Virtual and Augmented Reality in Spine Jay Morris, MD
4:55 pm – 5:00 pm	Q&A
5:15 pm – 5:45 pm	BUSINESS MEETING
6:30 pm – 8:30 pm	CLOSING RECEPTION



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SUNDAY AGENDA

FEBRUARY 27 (8:00 am – 7:00 pm CT)

7:00 am – 8:00 am BREAKFAST

CONCURRENT SESSION

JOINT SESSION 7 – THE BUSINESS OF SPINE

Moderators: [Lex Mitchell, MD](#) and [Joseph Sullivan, MD](#)

8:00 am – 8:15 am Washington Update from a Fellow of the Neiman Policy Institute
[Joshua Hirsch, MD, FACR, FSIR, FSNIS](#)

8:15 am – 8:30 am Healthcare Disparities [John Jordan, MD, MPP, FACR](#)

8:30 am – 8:45 am Reimbursement Update [Melissa Chen, MD](#)

8:45 am – 9:00 am CPT and RUC Process [Gaurang Shah, MD](#)

9:00 am – 9:15 am Spine Telehealth in the Pandemic Era [Jeff Stone, MD, FACR](#)

9:15 am – 9:30 am Q&A

CONCURRENT SESSION

YPS SESSION – SPINE PROCEDURES 101

Moderators: [Kalliopi Petropoulou, MD](#) and [Eric Bourekas, MD, MBA](#)

8:00 am – 8:15 am Pre-Procedural Imaging to Optimize Spine Intervention [David Besachio, DO](#)

8:15 am – 8:25 am Lumbar Puncture 101 [Brian Rigney, MD](#)

8:25 am – 8:40 am C1-C2 Puncture [Miriam Peckham, MD](#)

8:40 am – 8:55 am Spinraza/SMA [Jacob Ormsby, MD, MBA](#)

8:55 am – 9:10 am Epidural / Facet Joint Steroid Injection 101 [Justin Costello, MD](#)

9:10 am – 9:25 am Vertebral Biopsy 101 [Steve Daniels, MD](#)

9:25 am – 9:35 am Q&A

9:30 am – 10:00 am BREAK

JOINT SESSION 8 – WHAT'S THE EVIDENCE?

Moderators: [Mariza Clement, MD](#) and [Saad Ali, MD](#)

10:00 am – 10:25 am Speed Talks

10:25 am – 10:45 am Best Diagnostic Papers 2021-2022 [Jennifer Becker, MD](#)

10:45 am – 11:05 am Best Interventional Papers 2021- 2022 [Reade De Leacy, MBBS, FRANZCR](#)

11:05 am – 11:20 am ACR LBP AC: Guiding the Clinician [Troy Hutchins, MD](#)

11:20 am – 11:35 am ACR Neck Pain AC: Guiding the Clinician [Marin McDonald, MD, PhD](#)

11:35 am – 11:45 am Q&A

11:45 pm – 12:00 pm ASSR 2023 Introduction and Closing [Jack Jennings, MD, PhD](#) and [Lubdh Shah, MD, MS](#)



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