



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



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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 <i>Andrés González, MD (SILAN)</i>
11:45 am – 12:00 pm	Abstract 1 Abstract 2
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: <i>Scott Johnson, MD and Richard Silbergleit, MD</i>	
1:00 pm – 1:25 pm	Complexity of the Craniocervical Junction <i>Nader Dahdeleh, MD</i>
1:25 pm – 1:45 pm	Arterial Anatomy <i>Neeraj Choudhary, MD</i>
1:45 pm – 2:00 pm	Functional Anatomy of the Spinal Cord <i>Allison Grayev, MD</i>
2:00 pm – 2:15 pm	Uncovertebral Joint Complexity <i>Matthew Parsons, MD</i>
2:15 pm – 2:30 pm	Facet Joint: Function and Failure <i>Vinil Shah, MD</i>
2:30 pm – 2:45 pm	2021 ASSR Research Grant Recipient <i>Ashwani Gore, MD</i>
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: <i>Hollie Lai, MD, Aashim Bhatia, MD, MS and Michelle Silvera, MD</i>	
3:30 pm – 3:50 pm	The Immature Spine: Differentiating Normal From Abnormal <i>Laura Hayes, MD</i>
3:50 pm – 4:10 pm	Spinal Dysraphism Made Easy <i>Erin Simon Schwartz, MD</i>
4:10 pm – 4:30 pm	CT vs MR in Pediatric Spine Evaluation <i>Judy Gadde, DO, MBA</i>
4:30 pm – 4:50 pm	Dynamic Cervical Spine MRI Evaluation in Children <i>Neil Lall, MD</i>
4:50 pm – 5:00 pm	Q&A
CONCURRENT SESSION INTERVENTIONAL 2 – PEDIATRIC AND PERIPHERAL NERVE INTERVENTIONS Moderators: <i>Jack Jennings, MD, PhD and Rupert Stanborough, MD</i>	
3:30 pm – 3:50 pm	Peripheral Nerve Interventions <i>David Prologo, MD, FSIR, ABOM-D</i>
3:50 pm – 4:05 pm	Basivertebral Nerve Ablation: Update of Current Evidence Supporting Its Use <i>Dan Nguyen, MD</i>
4:05 pm – 4:25 pm	Neurostimulation <i>John Michels, MD</i>
4:25 pm – 4:45 pm	Emerging Applications in Neuromodulation <i>Doug Beall, MD, FSIR, FIPP, DAAPM</i>
4:45 pm – 5:00 pm	Pediatric Spine Interventions <i>Travis Hillen, MD</i>
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: <i>Patrick Brown, MD and Kalen Riley, MD</i>	
8:30 am – 8:50 am	Imaging Advances for the Instrumented Spine <i>Larry Tanenbaum, MD, FACR</i>
8:50 am – 9:10 am	Lumbar Interbody Fusion - Types and How I Decide <i>John Caridi, MD</i>
9:10 am – 9:30 am	Cervical Fusion - Approaches and Hardware <i>Jonathan Rousuli, MD</i>
9:30 am – 9:50 am	Spinal Deformity- Surgical Perspective <i>Marcus Mazur, MD</i>
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	
:20	Spine Infections and Differential Diagnosis <i>Sergio Moguillansky, MD (Argentina)</i>
:20	Imaging of Pediatric Cord Tumors <i>Carlos Rugilo, MD (Argentina)</i>
:20	Imaging of Extradural and Extradural Tumors <i>Carolina Tramontini, MD (Colombia)</i>
CONCURRENT SESSION DIAGNOSTIC 3 – ANOMALIES AND ABNORMALITIES Moderators: <i>Susan Palasis, MD and Jessie Aw-Zoretic, MD</i>	
10:30 am – 10:50 am	Metabolic Conditions Affecting the Spine in Childhood <i>Stephen Kralik, MD</i>
10:50 am – 11:10 am	Pearls for Scoliosis Imaging <i>Alexis Maddocks, MD</i>
11:10 am – 11:30 am	Prominent Central Canal and Beyond <i>Elizabeth Ryals, MD</i>
11:30 am – 11:50 am	Pediatric Spondyloarthropathies <i>Jonathan Samet, MD</i>
11:50 am – 12:10 pm	So Many Chiaris <i>Kaurna Shekdar, MD</i>
12:10 pm – 12:25 pm	Abstract 1 Abstract 2
12:25 am – 12:35 pm	Q&A
CONCURRENT SESSION INTERVENTIONAL 3 – SPINAL CSF Moderators: <i>Troy Hutchins, MD and Jennifer Nathan, MD</i>	
10:30 am – 10:50 am	Types of CSF Leaks <i>Vance Lehman, MD</i>
10:50 am – 11:05 am	Spinal Imaging in SIH - Why I like DSM <i>Marcel Maya, MD</i>
11:05 am – 11:20 am	Spinal Imaging in SIH- Why I like CT <i>Tim Amrhein, MD</i>
11:20 am – 11:35 am	Superficial Siderosis - The Spinal Connection <i>Peter Kranz, MD</i>
11:35 am – 11:50 am	Blood Patch 101- Anyone Can Do It! <i>Mike Malinzak, MD, PhD</i>





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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 <i>Waleed Brinjiki, MD</i>
12:10 pm – 12:25 pm	Abstract 1 Abstract 2
12:25 pm – 12:35 pm	Q&A
12:35 pm – 1:30 pm	LUNCH
CONCURRENT SESSION DIAGNOSTIC 4 – CORD COMPLEXITIES Moderators: <i>Anousheh Saya, MD and Kim Seifert, MD</i>	
1:30 pm – 1:45 pm	Kinked Cord- Herniation, Arachnoid Webs, Arachnoid Cysts <i>Aseem Sharma, MD</i>
1:45 pm – 2:00 pm	Inflammatory Demyelinating Cord Disease: Beyond MS <i>Carlos Torres, MD, FRCPC</i>
2:00 pm – 2:20 pm	Spinal Cord MRI in MS: Prognosis and Monitoring NO CME <i>Alex Rovira, MD (SILAN)</i>
2:20 pm – 2:35 pm	COVID- Spine Manifestations <i>Amit Mahajan, MBBS, MD</i>
2:35 pm – 2:50 pm	Spinal Cord Tumor and Tumor Mimics <i>Puneet Pawha, MD</i>
2:50 pm – 3:05 pm	Multiparametric Evaluation of Spinal Masses <i>John Go, MD, FACR</i>
3:05 pm – 3:20 pm	Abstract 1 Abstract 2
3:20 pm – 3:30 pm	Q&A
CONCURRENT SESSION INTERVENTIONAL 4 – SPINE HODGE PODGE Moderators: <i>Dan Nguyen, MD, Vikas Agarwal, MD and Vinil Shah, MD</i>	
1:30 pm – 1:45 pm	Evaluation of the Back Pain Patient <i>Chris Standaert, MD</i>
1:45 pm – 2:05 pm	Weight-bearing MR Imaging , MR-Guided Procedures, and Spacers: Future of Spinal Interventions <i>Luigi Manfrè, MD (ESNR)</i>
2:05 pm – 2:20 pm	MILD <i>Jason Pope, MD</i>
2:20 pm – 2:35 pm	Regenerative Medicine: Practical Considerations <i>Chris Hancock, MD</i>
2:35 pm – 2:50 pm	US-guided Spine and Peripheral Nerve Interventions: Why US Should be Part of Your Interventional Practices <i>Allison Stout, DO</i>
2:50 pm – 3:05 pm	Vertebral Augmentation Complications – What to do When You're in Trouble <i>Alan Sag, MD</i>
3:05 pm – 3:20 pm	Abstract 1 Abstract 2
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: <i>Sandra Abi Fadel, MD and Vahe Zohrabian, MD</i>	
8:00 am – 8:20 am	Spinal Neoplasm Imaging Advances <i>Ashok Srinivasan, MD</i>
8:20 am – 8:40 am	Radiotherapy Advances <i>Chris Abraham, MD</i>
8:40 am – 9:00 am	Surgical Advances <i>Rakesh Patel, MD</i>
9:00 am – 9:20 am	The Evolving Role of the Neurointerventionalist <i>Jack Jennings, MD, PhD</i>
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	
:20	Behind the Curtain: Infections of the Spinal Cord and Intradural Spaces <i>Deepak Patkar, MD</i>
:20	Slaying the Dragon: Interventions for Vertebral Malignancies <i>Suyash Kulkarni, MD</i>
:20	Spine Biopsies: Tricks and Tips <i>Bhavin Jankharia, MD</i>
CONCURRENT SESSION DIAGNOSTIC 5 – SPINE TRAUMA Moderators: <i>Elliott Friedman, MD and Jennifer McCarty, MD</i>	
10:00 am – 10:15 am	Update on Pediatric Spine Trauma Evaluation <i>Manohar Shroff, MD</i>
10:15 am – 10:30 am	Relevance of Trauma Grading Systems <i>Roy Riascos, MD</i>
10:30 am – 10:45 am	MRI in Spine Trauma: Current Controversies Current and Future Innovations <i>Jason Talbott, MD, PhD</i>
10:45 am – 11:00 am	Diffusion Imaging in Spine Trauma: Realistic Biomarker? <i>Mahmud Mossa-Basha, MD</i>
11:00 am – 11:15 am	AI in Real Life: Cervical Spine Fracture and Hemorrhage Detection <i>Ichiro Ikuta, MD</i>
11:15 am – 11:30 am	3D Models in Spine Trauma <i>Edward Quigley, MD, PhD</i>
11:30 am – 11:45 am	Abstract 1 Abstract 2
11:45 am – 12:00 pm	Q&A
CONCURRENT SESSION INTERVENTIONAL 5 – SPINE ONCOLOGY, FIXATION/IMPLANTS Moderators: <i>Travis Hillen, MD and Andy Tomasian, MD</i>	
10:00 am – 10:15 am	Hot Ablation <i>Jay Acharya, MD</i>
10:15 am – 10:30 am	Cold Ablation <i>Andy Tomasian, MD</i>
10:30 am – 10:45 am	Vertebral Augmentation Implants <i>Ed Yoon, MD</i>
10:45 am – 11:00 am	Sacral Augmentation <i>Steven Yevich, MD, MPH</i>
11:00 am – 11:12 am	Update on Injectable Biomaterials <i>Alexis Kelekis, MD (ESNR)</i>
11:20 am – 11:40 am	What's New with Interspinous Spacers? <i>Stefano Marcia, MD (ESNR)</i>
11:40 am – 11:55 am	Abstract 1 Abstract 2
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: <i>Jared Narvid, MD and Marco Pinho, MD</i>	
1:00 pm – 1:15 pm	Dual Energy CT of the Spine <i>Eric D. Schwartz, MD</i>
1:15 pm – 1:35 pm	Perfusion Imaging <i>Andre Holodny, MD</i>
1:35 pm – 1:50 pm	Bone / ZTE MRI <i>Mai-Lan Ho, MD</i>
1:50 pm – 2:10 pm	High Field MRI <i>Meng Law, MD</i>
2:10 pm – 2:30 pm	Advanced MR Neurography <i>John Carrino, MD, MPH</i>
2:30 pm – 2:45 pm	Abstract 1
	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: <i>Paul Kim, MD and Christie Lincoln, MD</i>	
3:30 pm – 3:50 pm	Artificial Intelligence in Spine Surgery <i>Bo Chopko, PhD, MD</i>
3:50 pm – 4:05 pm	Artificial Intelligence Integration in Spine Imaging <i>Adam Flanders, MD</i>
4:05 pm – 4:20 pm	Faster MRI/Machine Learning Noise Reduction <i>Levi Chazen, MD</i>
4:20 pm – 4:35 pm	Technology in Spine Education <i>Richard Wiggins, MD</i>
4:35 pm – 4:55 pm	Virtual and Augmented Reality in Spine <i>Jay Morris, MD</i>
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 Lubdha Shah, MD, MS



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