

# PACIFIC SPINE $\times$ PAIN SOCIETY

The 2023 PSPS Annual Meeting: Pushing Surgical and Pain  
Frontiers Together

September 6-9th, 2023

Four Seasons Hotel

Ko'Olina, O'ahu, Hawai'i



## PSPS President's Welcome

Aloha and welcome to PSPS2023 in idyllic Ko'Olina, O'ahu. We can't get more Pacific than this. It has been a long-term goal since the inception of PSPS to have a meeting of this magnitude in Hawai'i and a special thank you to our members, Drs. Eric Lee and Jon Carlson, from Hawai'i who have welcomed us in the most gracious manner. Our keynote speaker, Dr. Peter Staats, who founded the Johns Hopkins Pain Program and has been President in several important societies grew up here in Hawai'i. We are honored to hear his cannot-miss Keynote address on Friday.

Every year there is change in spine care and this year is no different as we continue to emerge from the path of COVID-19. We are continuing to see new innovation in neurostimulation, minimally-invasive spine, sacroiliac joint intervention, endoscopic spine surgery, and practice management. Evidence has continued to develop and PSPS has been the leader in presenting these data. We also want to be the nidus of new ideas and proofs of concept -- congratulations to our grants and abstracts winners.

As a collaborative society, the annual planning committee has laid out a wonderful agenda that weaves through all aspects of pain and spine care from pain psychology, to structural degeneration, cancer pain, and to neuromodulation. Our APP course is designed to promote the integration of pain and spine surgery, as well as APPs to physicians. Fellows and young physicians can enjoy the opportunity to network and learn how to navigate the current debates in spine care.

Lastly, this is my final meeting as President of Pacific Spine & Pain Society, and it has been an honor to lead this growing society over the last two years. I am excited about our new chapter with Dr. Michael Oh, Neurosurgeon from University of California - Irvine taking over as President, and I will of course be there to assist him as he needs as Immediate Past President. My hope is that PSPS becomes the society that leads the discussion on therapies that are shared by spine surgeons and pain physicians, and provides guidance to payers, health-care providers, and patients.

Please enjoy your time here in Hawai'i. It is a special place rich with culture, history, and of course its unique paradisiacal environment.

Mahalo.  
Ramo K. Naidu, MD  
President, PSPS

## ***The 2023 PSPS Annual Meeting: Pushing Surgical and Pain Frontiers Together***

Dear PSPS 2023 Participants,

We are delighted to extend a warm aloha and welcome you to the beautiful Hawaiian Islands for this year's conference. We hope you are just as excited as we are to embark on this incredible journey of learning, networking, and exploring.

As you may already know, this year's conference promises to be one of the most engaging and informative events in the field of spine and pain. With a comprehensive program, you will have the opportunity to engage with experts and peers, gain insight into the latest techniques and practices, and discover new perspectives on the ever-evolving landscape of spine surgery and pain management.

Moreover, as you participate in this year's conference, we encourage you to take time to experience the awe-inspiring beauty of Hawai'i, from its pristine beaches and stunning sunsets to its rich culture and history. The Aloha State is more than just a destination, it's a way of life, and we hope your time here will be memorable and invigorating.

We would like to extend our sincere gratitude to our sponsors, partners, and volunteers who have worked tirelessly to make this event possible. We would also like to thank each of you for your contributions to this community, and we look forward to seeing the advancements and breakthroughs you will bring to the field.

Once again, welcome to Hawai'i, and we hope you enjoy this amazing experience with us.

Mahalo nui loa,

Eric T. Lee, MD  
Scott G. Pritzlaff, MD  
Michael Y. Oh, MD

# PACIFIC SPINE X PAIN SOCIETY



Wednesday, September 6th, 2023			
Time	Location	Topic	Faculty
12:00P	Ko'Oolina 4&5	Set up for Lab at Four Seasons <i>*not part of the CME program, no CME credit available</i>	
12:00-6:00P	Ko'Oolina 1&2	Exhibitor Set-up and Early Registration <i>*not part of the CME program, no CME credit available</i>	
3:30-4:30P	Malolo Room	PSPS Order of Business, Executive Board Elections <i>*not part of the CME program, no CME credit available</i>	Board of Directors (Mandatory)
4:30-5:30P	Malolo Room	Industry Meetings: 4:30-4:50PM - Platinum Sponsor Nevro 4:50-5:10PM - Platinum Sponsor Medtronic 5:10-5:30PM - Platinum Sponsor Boston Scientific  <i>*not part of the CME program, no CME credit available</i>	Board of Directors (Mandatory)
5:30-6:30P	Malolo Room	Board of Directors Dinner Sponsored by Silver Sponsor Vertos Medical <i>*not part of the CME program, no CME credit available</i>	Board of Directors (Mandatory)

# PACIFIC SPINE PAIN SOCIETY

Thursday, September 7th, 2023 Surgical and Interventional Pain Showcase Theater Course Directors: Samir J. Sheth, MD, Vafi Salmasi, MD, Jonathan D. Carlson, MD			
Time	Location	Topic	Faculty
7:15A	Ocean Prefunction Foyer	<b>Registration</b>	
7:30A – 8:00A	Ocean Ballroom	<b>Breakfast Sponsored by Silver Sponsor SPR Therapeutics</b> <i>*not part of the CME program, no CME credit available</i>	
Demo Lab		U/S Hands On Rotations 30 minute rotations	Round Table Discussion Rotations (non-CME) 20 minute rotations
Group A: 8:00-8:20A Group B: 10:00-10:20A Group C: 1:00-1:20P  RFA Procedure Interactive Didactic Douglas P. Beall, MD		Upper Extremity Einar Ottestad, MD, CIPS, FIPP	Saluda Closed Loop SCS Discussion Leader Jason E. Pope, MD
Group A: 8:20-8:40A Group B: 10:20-10:40A Group C: 1:20-1:40P  Restorative Neurostimulation for Chronic Low Back Pain Michael Y. Oh, MD			Vertiflex Discussion Leader: Jennifer M. Lee, MD

# PACIFIC SPINE PAIN SOCIETY

<p>Group A: 8:40-9:00A Group B: 10:40-11:00A Group C: 1:40-2:00P</p> <p>DRG Procedure Demonstration: Patrick Buchanan MD</p>		<p>CornerLoc SI Joint Fusion Discussion Leader: Pankaj Mehta, MD</p>
<p>Group A: 9:00-9:20A Group B: 11:00-11:20A Group C: 2:00-2:20P</p> <p>Percutaneous Image-Guided Lumbar Decompression Michael Verdolin, MD</p>	<p>Lower Extremity Scott G. Pritzlaff, MD</p>	<p>Mainstay - Restorative Neurostimulation for CLBP Round Table Discussion Discussion Leader: Robert D. Heros, MD</p>
<p>Group A: 9:20-9:40A Group B: 11:20-11:40A Group C: 2:20-2:40P</p> <p>SI Joint Fusion Denis G. Patterson, DO</p>	<p>PNS with EPG 60-day Implant Ryan Mattie, MD</p>	<p>SPR - PNS Round Table Discussion Leader: Samir J. Sheth, MD, Vafi Salmasi, MD</p>
<p>Group A: 9:40-10:00A Group B: 11:40A-12:00P Group C: 2:40-3:00P</p> <p>Balloon Kyphoplasty Michael J. Dorsi, MD, and Yu-Po Lee, MD</p>	<p>Joint Injections and Trunk Zachary McCormick, MD, and Sandy Christiansen, MD</p>	<p>Abbott Neurostimulation Portfolio Roundtable Discussion Leader: Eric G. Cornidez, MD, MBA</p>
<p>12:00-1:00P</p>	<p>Ocean Ballroom</p>	<p><b>Lunch Sponsored by Silver Sponsor Saluda Medical</b>  <i>*not part of the CME program, no CME credit available</i></p>
<p>3:00-5:00P</p>	<p>Ko'Oolina 5</p>	<p><b>Private Hands-On Training Sponsored by PainTEQ</b> <b>Faculty: Jonathan D. Carlson, MD, and Patrick Buchanan MD</b>  <i>*not part of the CME program, no CME credit available</i></p>
<p>5:00-6:00P</p>	<p>Ocean Lawn East</p>	<p><b>Kick Off PSPS Annual Meeting 2023 Reception Sponsored by Platinum Sponsor Boston Scientific</b>  <i>*not part of the CME program, no CME credit available</i></p>
<p>7:00P</p>	<p>Ocean Ballroom</p>	<p><b>Dinner Sponsored by Silver Sponsor PainTEQ</b>  <i>*not part of the CME program, no CME credit available</i></p>



# PACIFIC SPINE X PAIN SOCIETY

**Thursday, September 7th, 2023**  
**Advanced Practice Providers (APP) Course**  
**Course Directors: Denis G. Patterson, DO, and Jacqueline Weisbein, DO**

Time	Location	Topic	Faculty
7:30A – 8:00A	Ocean Ballroom	<b>Breakfast Sponsored by Silver Sponsor SPR Therapeutics</b> <i>*not part of the CME program, no CME credit available</i>	
8:00-8:10A	Ko'Oolina 3	Opening Remarks	Denis G. Patterson, DO, and Jacqueline Weisbein, DO
8:10-8:40A	Ko'Oolina 3	MRI/CT Scan Readings	Victoria Flower, APN
8:40-9:10A	Ko'Oolina 3	Osteoporosis Management and When to Consider Vertebral Augmentation/Kyphoplasty	Kaelyn Caspillo, PA
9:10-9:40A	Ko'Oolina 3	Recognizing and Managing Complications	Jacqueline Weisbein, DO
9:40-10:00A	Ko'Oolina 1&2	<b>Break with Exhibits</b> <i>*not part of the CME program, no CME credit available</i>	
10:00-10:30A	Ko'Oolina 3	Documentation and Billing/Coding/Auth Requirements (MBBs/SIJ)	Jacqueline Weisbein, DO
10:30-11:00A	Ko'Oolina 3	Abdominal/Pelvic Pain	Dave Dickerson, MD, Rita Locher, APRN

# PACIFIC SPINE PAIN SOCIETY

11:00-11:30A	Ko'Oolina 3	CRPS Diagnosis and Management	Jill Study, APN
11:30A-12:00P	Ko'Oolina 3	SCS and Emerging FDA Indications	Steven M. Falowski, MD
12:00-1:00P	Ocean Ballroom	<b><i>Lunch Sponsored by Silver Sponsor Saluda Medical</i></b> <i>*not part of the CME program, no CME credit available</i>	
1:00-1:30P	Ko'Oolina 3	Panel Discussion: MIS vs Open Spinal Procedures	Yu-Po Lee, MD, Jenna Abeloe, APN, Denis Patterson, DO, Brittney Misercola, APN
1:30-2:00P	Ko'Oolina 3	ALIF vs TLIF vs XLIF vs PLIF	Brian W. Su, MD
2:00-2:30P	Ko'Oolina 3	Panel Discussion: Reoperation vs SCS	Whitney James, MD, Michael Dorsi, MD, Jacqueline Weisbein, DO
2:30-2:50P	Ko'Oolina 1&2	<b><i>Break with Exhibits</i></b> <i>*not part of the CME program, no CME credit available</i>	
2:50-3:20P	Ko'Oolina 3	Difficult Patient/Nothing Further to Offer - How to Address	Dave Dickerson, MD, Rita Locher, APRN
3:20-3:50P	Ko'Oolina 3	Advancing your Knowledge	Britney Misercola, APN
3:50-4:20P	Ko'Oolina 3	Pain Management Medication Guidance: Non-opioids vs Opioids	Denis G. Patterson, DO
4:20-4:30P	Ko'Oolina 3	Closing Remarks	Denis G. Patterson, DO, and Jacqueline Weisbein, DO



5:00P	Ocean Lawn East	<b>Kick Off PSPS Annual Meeting 2023 Reception Sponsored by Platinum Sponsor Boston Scientific</b>  <i>*not part of the CME program, no CME credit available</i>
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Friday, September 8th, 2023			
Plenary Session			
Course Directors: Eric T. Lee, MD Scott G. Pritzlaff, MD, Jason E. Pope, MD, Michael Y. Oh, MD, Ramo K. Naidu, MD			
Time	Location	Topic	Faculty
7:15A	Ocean Prefunction Foyer	<b>Registration and Check In</b>	
7:30-8:15A	<b>Ocean Ballroom</b>	<b>Registration and Breakfast Sponsored by Gold Sponsor SI BONE</b>  <i>*not part of the CME program, no CME credit available</i>	
8:15-8:20A	Ko'Oolina 4&5	President's Welcome	Ramo K. Naidu, MD
Foundations for Success			
8:20-8:35A	Ko'Oolina 4&5	Collecting the Evidence to Support the Outcomes	Ramo K. Naidu, MD
8:35-8:50A	Ko'Oolina 4&5	Psychological Assessment: Critical First Steps	Ravi Prasad, PhD
8:50-9:05A	Ko'Oolina 4&5	Spinal Alignment: What to Look For	Andrew Vivas, MD
9:05-9:20A	Ko'Oolina 4&5	Terminology in Spine Surgery and Pain Medicine: Nomenclature Review and Updates	Yu-Po Lee, MD
Lumbar Stenosis- Setting the Standard			
9:20-9:25A	Ko'Oolina 4&5	Welcome	Michael J. Dorsi, MD
9:25-9:40A	Ko'Oolina 4&5	Minimally Invasive Defined and When to Fuse?	William F. Beringer, DO, FACOS
9:40-9:55A	Ko'Oolina 4&5	Indirect Lumbar Decompression using Spacers. Are They Valid?	Steven M. Falowski MD
9:55-10:10A	Ko'Oolina 4&5	Epidural Steroid Injections and Minimally Invasive Lumbar Decompression	Samir J. Sheth, MD
10:10-10:25A	Ko'Oolina 4&5	Endoscopic Lumbar Spine Uniportal vs Biportal	Don Young Park, MD
10:25-10:40A	Ko'Oolina 4&5	Unilateral Approach for Bilateral Decompression	Brian W. Su, MD
10:40-10:55A	Ko'Oolina 4&5	Panel: Q&A	Moderated by Michael J. Dorsi, MD

# PACIFIC SPINE X PAIN SOCIETY

			Panel: William F. Beringer, DO, FACOS, Steven M. Falowski MD, Brian W. Su, MD, Don Young Park, MD, Samir J. Sheth, MD
10:55-11:10A	Ko'Olina 1&2	<b>Break with Exhibits</b> <i>*not part of the CME program, no CME credit available</i>	
11:10-11:15A	Ko'Olina 4&5	<b>Introduction of Keynote Speaker</b>	<b>Ramo K. Naidu, MD</b>
11:15-11:40A	Ko'Olina 4&5	<b>Keynote Speaker:</b> <b>Frontiers: Past Present and Future</b> <b>The Evolution of the Field of Pain Medicine</b> <i>*not part of the CME program, no CME credit available</i>	<b>Peter Staats, MD, MBA</b>

## Spectrum of Care Series: Axial Pain: Vertebrogenic vs Discogenic Pain

11:40-11:45A	Ko'Olina 4&5	Welcome and Case Presentation	Jonathan D. Carlson, MD
11:45-12:00P	Ko'Olina 4&5	How to Target Anterior Column Axial Pain: A Panel Discussion	Nick Jain, MD, Edward S. Yoon, MD, and Douglas P. Beall, MD
12:00-1:00P	<b>Ocean Ballroom</b>	<b>Lunch Symposium Sponsored By Silver Sponsor Mainstay Medical</b> <i>*not part of the CME program, no CME credit available</i>	

## Neurostimulation - Frontiers From Here

1:00P	Ko'Olina 4&5	Welcome	Eric T. Lee, MD
1:00-1:15P	Ko'Olina 4&5	SCS: Minimizing Complications	Lawrence Poree, MD, MPD, PhD
1:15-1:30P	Ko'Olina 4&5	Paddle vs. Perc: Advantages of Both	Whitney James, MD, MHS
1:30-1:45P	Ko'Olina 4&5	SCS: Technological Advancements and Maintaining Outcomes	Dave Dickerson, MD
1:45-2:00P	Ko'Olina 4&5	Dorsal Root Ganglion Stimulation: What have we learned since 2016	Eric G. Cornidez, MD, MBA
2:00-2:15P	Ko'Olina 4&5	Peripheral Nerve Stimulation: Current Evidence and Targets	Scott G. Pritzlaff, MD
2:15-2:30P	Ko'Olina 4&5	Panel: Q&A	Moderated by Alaa Abd-Elseyed, MD, MPH  Panel: Lawrence Poree, MD, MPD, PhD, Dave Dickerson, MD, Scott G. Pritzlaff, MD, Whitney James, MD, MHS, and Eric G. Cornidez, MD, MBA
2:30-2:45P	<b>Ko'Olina 1&amp;2</b>	<b>Break with Exhibits</b> <i>*not part of the CME program, no CME credit available</i>	

## Spectrum of care Series: SCS and Surgery Case Panel Discussion

2:45-2:50P	Ko'Olina 4&5	Welcome and Case Presentation	Jacqueline Weisbein, DO
2:50-3:05P	Ko'Olina 4&5	Surgical, SCS, Defining Outcomes, Complications and Psychology	Michael Verdolin, MD, Steven Falowski, MD, Ravi Prasad, PhD,

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			Whitney James, MD, MHS, Lawrence Poree, MD, MPD, PhD
<b>Intrathecal Drug Delivery/Cancer Pain Management</b>			
3:05-3:10P	Ko'Olina 4&5	Welcome	Jason E. Pope, MD
3:10-3:25P	Ko'Olina 4&5	Optimizing ITP Therapy: Dosing, Catheter Placement, and Troubleshooting	Michael S. Leong, MD
3:25-3:40P	Ko'Olina 4&5	Interventional Treatments of Cancer Pain: Neurostimulation and Ablative Techniques	Ryan Mattie, MD
3:40-3:55P	Ko'Olina 4&5	Dr. Lisa Stearns Memorial Lecture - Procedural Education for Cancer-related Pain in Pain Medicine Fellowships: A National Program Survey	Sandy Christiansen, MD
<b>Spectrum of Care Series: Vertebral Compression Fracture Management</b>			
3:55-4:00P	Ko'Olina 4&5	Welcome and Case Presentation	Samir J. Sheth, MD
4:00-4:15P	Ko'Olina 4&5	The Latest Updates on Vertebral Compression Fracture Management	Nick Jain, MD, Edward S. Yoon, MD, and Douglas P. Beall, MD
<b>Research – Pushing the Frontiers</b>			
4:15-4:20P	Ko'Olina 4&5	Welcome	Vafi Salmasi, MD
4:20-4:40P	Ko'Olina 4&5	Presentations by 2022 PSPS Scholarship Winners	Moderator: Ryan Mattie, MD Presenters: Alexander Lopez, MD Marc Caragea, DO
<b>Diversity and Inclusivity</b>			
4:40-4:45P	Ko'Olina 4&5	Welcome	Gemayel Lee, MD
4:45-5:00P	Ko'Olina 4&5	How are we doing? Inequities in Real Time	Priyanka Ghosh, MD
5:00-5:15P	Ko'Olina 4&5	Bias in Access to Care?	Eric G. Cornidez, MD, MBA
5:15-5:30P	Ko'Olina 4&5	Chairman's Message	Jason E. Pope, MD
5:40-6:40P	<b>Ocean Lawn</b>	<i><b>Diversity and Inclusion Cocktail Reception Supported by Efforts of PSPS Goals as a Society</b></i>  <i><b>Physician Spotlight – Lawrence Poree, MD, MPD, PhD</b></i>  <i><b>Thank you to our sponsors: Gold Sponsor Biotronik Neuro</b></i> <i>*not part of the CME program, no CME credit available</i>	All attendees and sponsors are welcome!  Hosts: Gemayel Lee, MD, Eric G. Cornidez, MD, MBA, Priyanka Ghosh, MD
7:30-9:30:P	<b>La Hiki Restaurant - onsite at Four Seasons</b>	<i><b>Faculty Dinner Sponsored by Gold Sponsor Biotronik Neuro</b></i> <i>*not part of the CME program, no CME credit available</i>	By invitation only

# PACIFIC SPINE X PAIN SOCIETY

## Saturday, September 9th, 2023 Plenary Session

Time	Location	Topic	Faculty
7:30A		<b>Registration Opens</b>	
7:45-8:15A	<b>Ocean Ballroom</b>	<b>Breakfast</b> <b>Product Theater and Sparkling Sunrise Mocktails Sponsored by Bronze Sponsor Relievant</b> <i>*not part of the CME program, no CME credit available</i>	

### Cervical Stenosis: Setting the Standard

8:15A	Ko'Oolina 4&5	Welcome	Michael Y. Oh, MD
8:15-8:30A	Ko'Oolina 4&5	Degenerative Disorders of Cervical Spine	Namath S. Hussain, MD, MBA
8:30-8:45A	Ko'Oolina 4&5	Endoscopic Cervical Spine Surgery	Josiah N. Orina, MD
8:45-9:00A	Ko'Oolina 4&5	Cervical Complication Management	Brian W. Su, MD
9:00-9:15A	Ko'Oolina 4&5	Cervical Sagittal Imbalance	Stephen Ryu, MD
9:15-9:30A	Ko'Oolina 4&5	The Value and Risks of Cervical Transforaminal vs Interlaminar Epidural Steroid Injections	Zachary McCormick, MD
9:30-9:40A	Ko'Oolina 4&5	Panel: Q&A	Moderated by Michael Y. Oh, MD  Panel: Namath S. Hussain, MD, MBA, Josiah N. Orina, MD, Brian W. Su, MD, Stephen Ryu, MD, and Zachary McCormick, MD

### Regenerative Medicine

9:40A	Ko'Oolina 4&5	Welcome	Vafi Salmasi, MD
9:40-9:55A	Ko'Oolina 4&5	PRP and BMAC Basics	Michael Verdolin, MD
9:55-10:10A	Ko'Oolina 4&5	Future Directions: Where is Regenerative Medicine Headed?	Rahul N. Desai, MD
<b>10:10-10:30A</b>	<b>Ko'Oolina 1&amp;2</b>	<b>Break with Exhibits</b> <b>Exhibitors are welcome to break down following conclusion</b> <i>*not part of the CME program, no CME credit available</i>	

### Advocacy and Policy – Ensuring We Have a Seat at the Table

10:30-10:45A	Ko'Oolina 4&5	2023 Review of Policy Changes Affecting our Field: SIJ RFA updates	Michael S. Leong, MD
10:45-11:00A	Ko'Oolina 4&5	Emerging Advocacy Issues- A Report From The P&A Committee	Jennifer M. Lee, MD

### Practice Management - How to Ensure Access to Care

11:00-11:15A	Ko'Oolina 4&5	Protecting our Therapies	Douglas P. Beall, MD
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# PACIFIC SPINE X PAIN SOCIETY

11:15-11:30A	Ko'Oolina 4&5	How to Grow Your Practice. Trends of the 2020s	Denis G. Patterson, DO
11:30-11:45A	Ko'Oolina 4&5	Maximizing the Digital Community	Priyanka Ghosh, MD
11:45-12:00P	Ko'Oolina 4&5	How to Overcome Insurance Denials	Douglas P. Beall, MD
<b>12:00-1:00P</b>	<b>Ocean Ballroom</b>	<b>Lunch Sponsored by Platinum Sponsor Medtronic</b> <i>*not part of the CME program, no CME credit available</i>	
<b>Spectrum of Care Series: Sacroiliac Joint Fixation Debate</b>			
1:00-1:05P	Ko'Oolina 4&5	Welcome and Case Presentation	Pankaj Mehta, MD
1:05-1:20P	Ko'Oolina 4&5	Sacroiliac Joint Fusion, Lateral & Posterior Approach Debate	Michael Y. Oh, MD, Denis G. Patterson, DO, Patrick Buchanan MD, Andy Kranenburg, MD
<b>Radiofrequency Ablation and Peripheral Nerve Stimulation</b>			
1:20-1:35P	Ko'Oolina 4&5	Emerging PNS Indications: Back Pain and Beyond	Greg Moore, MD
1:35-1:50P	Ko'Oolina 4&5	Radiofrequency Ablation of Major Joints, Knee, Hip, Sacroiliac Joint, and Shoulder Update	Douglas P. Beall, MD
1:50-2:05P	Ko'Oolina 4&5	Radiofrequency Ablation of Peripheral Nerves	Einar Ottestad, MD, CIPS, FIPP
2:05-2:15P	Ko'Oolina 4&5	<b>Abstract Awards Presentation</b>	Patrick Buchanan, MD
2:15-2:30P	Ko'Oolina 4&5	<b>Top 3 Abstract Presentations</b>  Durability of Pain Relief. Interim Outcomes from SECURE: A Single arm, Multicenter, Prospective, Clinical Study on a Minimally Invasive Posterior Sacroiliac Fusion Device  Safety and Efficacy of Intravenous ExoFlo in the Treatment of Complex Regional Pain Syndrome  AI for Improving Readability in Spine Research	Pankaj Mehta, MD on behalf of Aaron Calodney, MD, DABA, FASA, FIPP, ABIPP  Zeyn Sparks White, MD  Bryce Picton, BS
2:30P	Ko'Oolina 4&5	<b>Meeting Close</b>	Michael Oh MD