



FRIDAY, JANUARY 19, 2024

BREAKFAST SESSIONS - 7:00 AM – 8:00 AM

CHOOSE ONE SESSION BELOW

Psychiatric Neuromodulation and Evolving Clinical Landscape

Welcome	<i>Moderators:</i> Jennifer Sweet, MD Vishad Sukul, MD
DBS for Depression: Circuitry, Connectomics and Clinical Outcomes	TBD
The Evolution of Targeting in DBS for OCD, Tourette’s, and other Psychiatric Disorders	Ben Shofty, MD, PhD
Improving Access to Care in Psychiatric Neuromodulation	Rachel Davis, MD
Integrating Psychiatric Neuromodulation into Clinical Practice Panel Discussion	Sameer Sheth, MD, PhD
Question & Answer Panel with the Speakers	Panel
Closing	Jennifer Sweet, MD Vishad Sukul, MD

Big Data in Neuromodulation

Welcome	<i>Moderators:</i> Ryan D'Souza, MD Jay Karri, MD, MPH
Assessment of Clinical Outcomes and Adverse Events from Neuromodulation Techniques Using Large Databases	Nasir Hussain, MD
Utility and Limitations of the MAUDE Database in Advancing Neuromodulation Outcomes	Eellan Sivanesan, MD
Appraising the Evidence: Pioneering Meta-analyses in the Neuromodulation Literature	Christine Hunt, DO
Randomized Clinical Trials Versus Large Database Studies: Pros, Cons, and Impact on Practice Panel Discussion	Ryan D'Souza, MD
Panel or Q & A	Panel
Closing	Ryan D'Souza, MD Jay Karri, MD, MPH

Neuromodulation in the Management of Facial Pain

Welcome	<i>Moderators:</i> Nathaniel Schuster, MD Sharona Ben-Haim, MD
Is it Trigeminal Neuralgia? Making an Accurate Facial Pain Diagnosis	Jihan Grant, MD
Patient Selection and Treatment Approach for Neuromodulation in Facial Pain	Narayan Kissoon, MD
Technical Considerations for Peripheral Nerve Stimulation Placement in the Treatment of Facial Pain	Xiang Qian, MD
Technical Considerations for Deep Brain Stimulation and Motor Cortex Stimulation Placement in the Treatment of Facial Pain	Rushna Ali, MD
Complication Management Panel Discussion	Konstantin Slavin, MD, PhD
Panel or Q & A	Panel
Closing	Nathaniel Schuster, MD Sharona Ben-Haim, MD

Addressing the Payers and Naysayers with Robust Real-World Cost-Effectiveness and Opioid Reduction Data

Welcome	<i>Moderators:</i> Jason Yong, MD, MBA Chris Gilligan, MD
Macro-Environmental Factors Impacting Patient Access and Our Pain Practice	David Provenzano, MD
Economic Outcomes and Opioid Reduction with Advanced Pain Therapies	Chris Gilligan, MD
Data on Safety and Effectiveness of Interventional Pain Therapies	Howard Rosner, MD
Call to Action: Unified Pathway for Future Pain Management and HHS Best Practices Panel Discussion	Peter Staats, MD, MBA
Panel or Q & A	Panel
Closing	Jason Yong, MD, MBA Chris Gilligan, MD

Redefining Lumbar Discogenic Axial Back Pain and the Changing Treatment Algorithms

Welcome	<i>Moderators:</i> Ramo Naidu, MD Lawrence Poree, MD, PhD, MPH
History of Discogenic Pain	Zachary McCormick, MD
Latest Science on the Concept of Vertebrogenic Pain	Jeffrey Lotz, PhD
Radiofrequency and Intradiscal Therapies	Matthew Smuck, MD
Neuromodulation Therapies for Discogenic Vertebrogenic Pain: SCS, PNS, DRG	Kiran Patel, MD
Panel or Q & A Panel Discussion	Panel
Closing	Ramo Naidu, MD Lawrence Poree, MD, PhD, MPH

Advanced Materials for Neuromodulation

Welcome	<i>Moderators:</i> Scott Lempka, PhD Peter Tass, MD, PhD
Spatial Transcriptomics as a Novel Approach to Redefine Electrical Stimulation Safety	Erin Purcell, PhD
MX-ene-infused Bioelectric Interfaces for Multiscale Electrophysiology and Stimulation	TBD
A Universal Model of Electrochemical Safety Limits In Vivo for Electrophysiological Stimulation	Shadi Dayeh, BS, PHD
The Injectrode	Kip Ludwig, PhD
Panel or Q & A Panel Discussion	Panel
Closing	Scott Lempka, PhD Peter Tass, MD, PhD

Break 8:00 AM – 8:30 AM

PLENARY I - 8:30 AM – 10:00 AM

Past, Present, Future-A Journey Through Time: NANS at 30th Anniversary

Welcome	<i>Moderators:</i> Salim Hayek, MD, PhD Corey Hunter, MD Magda Anitescu, MD, PhD, FASA
Video	Salim M Hayek, MD, PhD
The Foundation	Michael Stanton Hicks, MD
Where We Are Going	Jaimie Henderson, MD
The Patients Who Inspire Us	Anthony Giuffrida, MD Heather Pinckard-Dover, MD
Into to Presidential Address	Salim M Hayek, MD, PhD
Presidential Address	Julie Pilitsis, MD, PhD, MBA
Acknowledgement of NANS Past Presidents	Julie Pilitsis, MD, PhD, MBA

Break 10:00 – 10:30 AM

CONCURRENT SESSIONS 10:30 AM – 12:00 PM

Basic Science: Bench to Bedside: Non-Invasive Focused Ultrasound Neuromodulation to Treat a Spectrum of Diseases-Disorders

Welcome	<i>Moderator:</i> Damian Shin, PhD
Low Intensity FUS for Epilepsy as a New Approach to Neuromodulation	Ellen Bubrick, MD
Therapeutic FUS Attenuates Chemical-induced Colitis Via the Cholinergic Anti-inflammatory Pathway	Joseph Frank, MD
FUS Enhance Intranasal BDNF Delivery to Improve Neurorestorative Effects in Parkinsonian Mice Model.	Elisa Konofagou, PhD
Abstracts	TBD
Closing Discussion	Damian Shin, PhD

Modern Approaches to Pediatric Neuromodulation

Welcome	<i>Moderators:</i> James Botros, MD Katrina Ducis, MD
Advances in Invasive Neuromodulation for Pediatric Epilepsy.	Neena Marupudi, MD, MS
Advances in Invasive Neuromodulation for Pediatric Pain.	John Honeycutt, MD
Advances in Invasive Neuromodulation for Pediatric Movement Disorders.	TBD
Abstracts	TBD
Closing Discussion	James Botros, MD Katrina Ducis, MD

The Future of Implanted Neuromodulation Therapies for Pain: Opportunities and Challenges

Welcome	<i>Moderators:</i> Anuj Bhatia, MD, MBBS, FRCPC, FRCA Tim Lamer, MD
SCS Will be a Durable Option for CLBP	Ganesan Baranidharan, FRCA
SCS Won't be an Option for CLBP	Salim Hayek, MD, PhD
Will Implanted Neuromodulation Therapies Replace Ablative Therapies for Cancer-related Pain?	Amit Gulati, MD
Wearable Technology for Evaluation of Physical Activity following Spine Interventions for Pain	Anuj Bhatia, MD, MBBS, FRCPC, FRCA
Abstracts	TBD
Closing Discussion	Anuj Bhatia, MD, MBBS, FRCPC, FRCA Tim Lamer, MD

Onboard New Advanced Practice Providers to Neuromodulation

Welcome	<i>Moderators:</i> Christy Gomez, APRN Chelsey Hoffmann, PA-C, MS, RD
Fundamentals of PNS	Matthew Pingree, MD
Selecting the Right Therapy for the Right Patient	Patrick McGinn, PA-C
Billing/Coding Optimization	Lauren Cimino, APRN
Abstracts	TBD
Closing Discussion	Christy Gomez, APRN Chelsey Hoffmann, PA-C, MS, RD

Ethical Dilemmas in Clinical Trials

Welcome	<i>Moderators:</i> Lawrence Poree, MD, PhD, MPH Chris Gilligan, MD
Should We Do a Placebo Controlled Trial for SCS as a Society? The Case For	Simon Thompson, MBBS
Should We Do a Placebo Controlled Trial for SCS as a Society? The Case Against	Josh Rosenow, MD, FACS
Ethical Dilemmas for Patients Enrolling in Trials for Access to Therapy	Kiran Patel, MD
Placebo and Nocebo Effects in Neuromodulation Clinical Trials	Sam Eldabe, MD
Abstracts	TBD
Closing Discussion	Lawrence Poree, MD, PhD, MPH Chris Gilligan, MD

Non-Invasive Brain Stimulation for Age-Related Cognitive Decline and Mood Disorders

Welcome	<i>Moderators:</i> Marom Bikson, PhD Benjamin Hampstead, PhD
Augmenting Cognitive Training and Decreases Subclinical Depressive Symptoms Using Transcranial Direct Current Stimulation (tDCS) in Older Adults	Adam Woods, PhD
Effects of High Definition-Transcranial Direct Current Stimulation in Older Adults with Cognitive Impairment	Benjamin Hampstead, PhD
Prevention of Alzheimer's dementia with Cognitive remediation plus transcranial direct current stimulation (tDCS) in Mild cognitive impairment and Depression	Tarek Rajji, MD
Long-lasting improvements in working memory and long-term memory in older adults with High Definition-Transcranial Transcranial Alternating Current Stimulation (HD-tACS)	Robert M. G. Reinhart, PhD
Abstracts	TBD
Closing Discussion	Marom Bikson, PhD Benjamin Hampstead, PhD

Industry Sponsored Lunch Symposia 12:00 PM – 1:30 PM *Not eligible for CME

PLENARY SESSION II 1:30 PM – 3:30 PM

Neuromodulation at a Crossing Point: Current States and Steps Ahead

Welcome	<i>Moderators:</i> Julie Pilitsis, MD, PhD, MBA Parag Patil, MD, PhD Kiran Patel, MD
Stereotaxis Beyond the Frame: Accuracy, Accessibility, and Economics	Chengyuan Wu, MD, MSBmE
Macro Environment Preventing SCS for CLBP	Anuj Bhatia, MD
Will Pharma Rules Apply Moving Forward in SCS?	John Markman, MD
How Guidelines Create the Framework for Practice	Dave Dickerson, MD
Thinking Big and Solving Problems	Rony Abovitz
Presentation of Awards	Julie Pilitsis, MD, PhD, MBA
Closing	Julie Pilitsis, MD, PhD, MBA Parag Patil, MD, PhD Kiran Patel, MD

Break 3:30 PM – 4:00 PM

CONCURRENT SESSIONS 4:00 PM – 5:30 PM

CHOOSE ONE SESSION BELOW

Novel Neuraxial Therapeutic Platforms

Welcome	<i>Moderator:</i> Michael Iadarola, PhD Tony Yaksh, PhD
Neuraxial AAVs in Pain Control	Ana Moreno, MD
Use of Neuraxial Antisense in Addressing Pain and Neurodegenerative Disorders.	Hien Tran Zhao, PhD
Optimizing the Neuraxial Use of Targeted Toxins to Produce Long Lasting Changes in Pain Processing	Michael Iadarola, PhD
Abstracts	TBD
Closing Discussion	Michael Iadarola, PhD Tony Yaksh, PhD

Recent Advances in Brain Computer Interface

Welcome	<i>Moderators:</i> Dario Englot, MD, PhD Brian Lee, MD, PhD
BCI for Neuroprosthetics	Jaimie Henderson, MD
BCI to Understand Cognition and Behavior	Suliann Ben Hamed, PhD
BCI in Stroke Recovery	Donatella Mattia, MD, PhD
Abstracts	TBD
Closing Discussion	Dario Englot, MD, PhD Brian Lee, MD, PhD

Neuromodulation for Spinal Cord Injury

Welcome	<i>Moderator:</i> David Darrow, MD, MPH
Epidural SCS for SCI	Claudia Angeli, PhD
Transcutaneous Neuromodulation for SCI	TBD
Mechanisms of Neuromodulation for SCI	David Darrow, MD, MPH
Abstracts	TBD
Closing Discussion	David Darrow, MD, MPH

Remote Management of Spinal Cord Stimulation Devices for Chronic Pain: Recommendations on Best Practices for Adoption and Future Considerations

Welcome	<i>Moderators:</i> Peter Staats, MD, MBA Timothy Deer, MD
Clinical Evidence for SCS and Opportunities for Improvement of Clinical Management of Patients	Jason Pope, MD
Clinical Evidence for Remote SCS Management, Evidence Gaps, and Future Research Studies Needed	Timothy Deer, MD
Pitfalls, Side Effects and Adverse Events in Remote SCS Management	Marc Russo, MD
Consensus Guidelines for Remote Monitoring in SCS	Peter Staats, MD, MBA
Abstracts	TBD
Closing Discussion	Peter Staats, MD, MBA Timothy Deer, MD

Ultra-High-Channel-Count Electrophysiology

Welcome	<i>Moderators:</i> Ahmed Raslan, MD, FAANS Kai Miller, MD, PhD
Engineering Update on High Channel PtNR Interfaces	Shadi Dayeh, BS, PhD
Interpretation and Utility of Large Sets of Data from High Channel Count Electrophysiology	Sydney Cash, MD, PhD
The Current Landscape of High Channel Count Electrophysiology	Peter Konrad, MD
Guidelines and Challenges of the New Field	Ahmed Raslan, MD, FAANS
Intracortical High Channel Systems	Matthew MacDougall, MD
Abstracts	TBD

Socioeconomic Impact of Biased Peer-reviewed Literature and the Role of Innovative Advocacy and Policy Strategies

Welcome	<i>Moderators:</i> David Provencano, MD Joshua Rosenow, MD
Peer-review Bias and Quality of Published Neuromodulation Literature	Samir Sheth, MD
Role of State Medical Societies in Advocacy and Policy Change in Neuromodulation	Hemant Kalia, MD, MPH, FIPP
Principles of Self-governance and Conflict Mitigation within the Sub-specialty of Neuromodulation.	Parag Patil, MD, PhD
Role of Physician-Patient Alliance and Patient Advocacy Groups on Socioeconomic Impact of Neuromodulation Therapies.	David Kloth, MD
Abstracts	TBD
Closing Discussion	David Provencano, MD Joshua Rosenow, MD

Abstract Paper Poster Session and Reception * Not eligible for CME 5:30 PM – 7:00 PM