



2021 NANS MID-YEAR MEETING

JULY 15-17, 2021 | ORLANDO, FL

THURSDAY, JULY 15

7 am-5 pm

PRE-MEETING COURSES

ADVENTHEALTH
NICHOLSON CENTER

Neuromodulation for Advanced Implantable Therapies: A Hands-On Cadaver Course for Pain Fellows

Directors: Michael A. Fishman, MD MBA; Michael Hanes, MD; Bryan C. Hoelzer, MD; Susan M. Moeschler, MD; Kiran V. Patel, MD

8 am-5 pm

PRE-MEETING COURSES

WALT DISNEY WORLD
SWAN & DOLPHIN
RESORT

8 am-5 pm

Advanced Practice Provider Course (PAs, NPs, Nurses)

Directors: Teresita Devera, MSN CRNP ANP-BC; Chelsey Hoffmann, RD PA-C; Jaclyn Pappas, MSN APRN FNP CDE

8:30 am-5 pm

Intrathecal Therapy: Case-Based Learning

Directors: Michael F. Saulino, MD PhD; Erik Shaw, DO

8 am-5 pm

I³: Innovation in a Hyper-Connected World

Directors: Ashwini D. Sharan, MD; Benjamin Rapoport, MD PhD; Daniel J. Abrams, MD; James Cavuoto

FRIDAY, JULY 16

6:45-7:45 am

THEMATIC ABSTRACT SESSIONS

8:15-10:15 am

PLENARY SESSION I

OPTIMIZING PATIENT CARE IN A POST COVID ERA

Moderators: Susan M. Moeschler, MD; Kiran V. Patel, MD

Lessons from The Covid Frontline

Soriaya Motivala, MD

Healthcare Disparities During Covid

Myrdalis Diaz-Ramirez, MD

Provider Burnout, Moral, and Mental Health During Covid

Ashwini D. Sharan, MD

Lisa Stearns Award Presentation

TBD

Keynote Address: Telemedicine

Daniel Kraft, MD



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10:45 am-12:15 pm PLENARY SESSION II

BACK TO THE FUTURE: THE EVOLUTION OF NEUROMODULATION

Moderators: Corey Hunter, MD; Stephanie G. Vanterpool, MD MBA FASA

Neuromodulation Through the Ages

Richard B. North, MD

Holshimer Recognition

Richard B. North, MD

Trial, Error, and Onward

Magdalena M. Anitescu, MD PhD

Targeting the Future

Lawrence Poree, MD PhD MPH

Krishna Kumar Award Lecture: Sensory Restoration by Epidural Stimulation of the Lateral Spinal Cord in Upper-Limb Amputees

Lee E. Fisher, PhD

12:15-1:30 pm LUNCH SYMPOSIA (NON-CME)

1:30-3 pm CONCURRENT SESSIONS

NOVEL ADVANCES IN NEUROMODULATION FOR PARKINSON'S DISEASE

Moderators: Shilpa Chitnis, MD; Travis Hassell, MD PhD

New Engineering Advancements in DBS

Aysegul Gunduz, PhD

FUS or DBS: Which is Better?

TBD

Patient Selection for DBS

Abhimanyu Mahajan, MD

DBS in Early-Stage PD

David Charles, MD



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MAXIMIZING NEUROMODULATION EDUCATION

Moderators: Preet Patel, MD; Maricela C. Schnur, MD MBA

Maximizing Your Application

Sayed Wahezi, MD

Optimizing Your Education

Dare Olatoye, MD

Research During Fellowship

Bryan Marascalchi, MD

Finding a Job During COVID

Priyanka Ghosh, MD

OPTIMIZING YOUR APP PRACTICE: IMPROVING LONG TERM OUTCOMES

Moderators: Teresita Devera, MSN CRNP ANP-BC; Jaclyn Pappas, MSN APRN FNP CDE

Adding Value to Your Practice During COVID: Maximizing the Role of the APP

Helen M. Blake, MD

Management of Retained Lead Fragment in Peripheral Nerve Stimulation

Chelsey Hoffmann, RD PA-C

The Evolution of Neurostimulator Batteries: Considerations in Patient Selection

Carol Blyzniuk, RN

Deep Brain Stimulation: Advancements for APPs

Diane Hoffman, CRNP RNFA

NEUROMODULATION: THE EDUCATOR'S APPROACH

Moderators: Magdalena M. Anitescu, MD PhD; Nicholas Bremer, MD

Interviews

Rene Przkora MD PhD

Digital Education

Shravani Durbhakula, MD

Milestones/Competencies

Thomas P. Pittelkow, DO MPH

Preparing Our Fellows for Practice

Timothy Lubenow, MD



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A FOCUSED LOOK AT DRG STIMULATION

Moderators: *Soriaya Motivala MD; Dare Olatoye MD*

DRG Mechanism

Elliot S. Krames, MD

DRG Evidence

Timothy Deer, MD

DRG New Indications

Kenneth B. Chapman, MD

DRG Complications

Tim J. Lamer, MD

3:30-5 pm CONCURRENT SESSIONS

KEEPING UP WITH THE FUTURE: NEW CLINICAL APPLICATIONS FOR DBS FOR PARKINSON'S DISEASE

Moderators: *Chandler Gill, MD; Ludy C. Shih, MD*

Integrating Neuromodulation into Neurology Training

Chandler Gill, MD

Parkinson's and Pain

Marisa DiMarzio, PhD

Advanced Programming of DBS

Adolfo Ramirez-Zamora, MD

Gait and Parkinson's Disease

Ludy C. Shih, MD

INDICATIONS AND EVIDENCE FOR NEUROMODULATION

Moderators: *Timothy R. Lubenow, MD; Preet Patel, MD*

Neuromodulation for Headache

Samer N. Narouze, MD, PhD

Indications for SCS and PNS

David Spinner, DO

Programming: What Do I Need to Know?

Ellen L. Air, MD PhD

Pumps: Let's Talk About Trials

Tammy L. Dann, DO MPH



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3:30-5 pm CONCURRENT SESSIONS

OPTIMIZING YOUR APP PRACTICE: ADVANCEMENTS IN TECHNOLOGY

Moderator: Chelsey Hoffmann, RD PA-C; Kristen A. Klein, RN AGNP-C

COVID and Telemedicine: Introduction of Digital Health Applications

Jaclyn Pappas, MSN APRN FNP CDE

Fact vs Fiction: What Can I Do After SCS?

Casey Grillo, MSN FNP-C

Neuromodulation Wound Complications: Case Studies and Management Considerations

Teresita Devera, MSN CRNP ANP-BC

Enhancing Your Career with Social Media

Ashley Comer, MSN APRN FNP-C

NEWS YOU NEED TO KNOW: ADVOCACY AND POLICY UPDATES

Moderators: David A. Provenzano, MD; Joshua M. Rosenow, MD

Making Sense of the AMA's Survey Process

Damean W. Freas, DO

The AMA and the CPT Process: Category 1 and Category 3 Coding in Neuromodulation

Corey W. Hunter, MD

Future of Telehealth in the Field of Neuromodulation: Access, Security, and Advancement

Joshua M. Rosenow, MD

Advocacy on the Horizon: Site of Service, Preauthorization, E/M, and Coverage Challenges

David A. Provenzano, MD

A FOCUS ON SPINAL CORD STIMULATION PROGRAMMING

Moderators: Salim M. Hayek, MD PhD; Maricela C. Schnur, MD MBA

Basics of SCS Programming

Kathleen Meacham, MD PhD

High Frequency and Burst Evidence

Nick Knezevic, MD PhD

Closed Loop Evidence

Jacqueline S. Weisbein, DO

Using Programming and Waveform to Salvage Therapy

Michael Hanes, MD

6-7 pm

WIN PANEL

***NEW**

Moderator: Magdalena M. Anitescu, MD PhD

Starting Up Your Career

Stephanie G. Vanterpool, MD MBA FASA

Getting in to Society

Kiran V. Patel, MD

Research and Scholarly Work

Jacqueline S. Weisbein, DO

Staying on Top of Your Game

Ellen L. Air, MD PhD



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6:45-7:45 am THEMATIC ABSTRACT SESSIONS

8:15-10:15 am PLENARY SESSION III

PATIENT CENTERED NEUROMODULATION

Moderators: Susan M. Moeschler, MD; Kiran V. Patel, MD

Bio Design Innovations

Bryan Marascalchi, MD

Pain Linguistics and Patient Assessments

W. Michael Hooten, MD

The Independent View of Patient Outcomes

Julie G. Plitisis, MD PhD

Implementing Patient Outcomes

David A. Provenzano, MD

Presidential Address

Peter Konrad, MD PhD

10:45 am-12:15 pm PLENARY SESSION IV

BROADER PERSPECTIVES IN NEUROMODULATION

Moderators: Ellen L. Air, MD PhD; Ahmed Raslan, MD PhD

Prescribing Neuromodulation

David Charles, MD

Novel Applications of TMS

Colleen A. Hanlon, PhD

ITP in the Treatment Continuum

Salim M. Hayek, MD PhD

PNS Elsewhere

Amitabh Gulati, MD

Award Winners

Peter Konrad, MD PhD

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TECHNOLOGICAL ADVANCES AND INNOVATIONS IN NEUROMODULATION

Moderators: *Damian S. Shin, MSc PhD; TBD*

Science of SCS: What's the Latest

Krishnan V. Chakravarthy, MD PhD

Can Focused Ultrasound Change the Playing Field in Pain?

Julie G. Pilitsis, MD PhD

Focused Ultrasound and the BBB

Damian S. Shin, MSc PhD

Increased Longevity of Electrodes for BCI

TBD

SPECIAL INDICATIONS AND CONSIDERATIONS FOR NEUROMODULATION

Moderators: *Priyanka Ghosh, MD; Ricardo Vallejo, MD PhD*

Neuromodulation for the Opioids Tolerant Patient

B. Todd Sitzman, MD MPH

Strategies for Neuromodulation Patient Education

Stephanie G. Vanterpool, MD MBA

SCS in Pregnancy

Maricela C. Schnur, MD MBA

Neuromodulation for Facial Pain

Samer N. Narouze, MD PhD

THE BUSINESS OF NEUROMODULATION: WHAT YOU NEED TO KNOW - SESSION 1: BEYOND THE CONVENTIONAL MANAGEMENT STYLES

Moderators: *Joshua M. Rosenow, MD FACS*

Developing A Business Plan

Joseph S. Neimat, MD MS

Fundamentals of Ambulatory Surgical Center Investment, Ownership, and Management

David A. Provenzano, MD

Prior Authorization for Neuromodulation

Joshua M. Rosenow, MD FACS



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PATIENT SAFETY AND OPTIMIZING PATIENT FACTORS

Moderators: Myrdalis Diaz-Ramirez, MD; Michael Hanes, MD

Optimizing Patient Factors

Markus A. Bendel, MD

Medication Management with Neuromodulation

Bryan C. Hoelzer, MD

MRI in Neuromodulation

Erika A. Petersen, MD PhD

Neuromodulation Competencies

Steven M. Falowski, MD

NEUROMODULATORY STRATEGIES FOR PELVIC PAIN

Moderators: Helen M. Blake, MD; Tim J. Lamer, MD

HF SCS for pain

Jordan Tate, MD MPH

DRG for Pelvic Pain

Corey W. Hunter, MD

PNS for Pelvic Pain

Jennifer Hah, MD

Neuromodulation of Ancillary Cells at the DRG

Christine L. Hunt, DO

3:30-5 pm CONCURRENT SESSIONS

NEUROMODULATION VS. LESIONING FOR THE MANAGEMENT OF PAIN

Moderators: Michael D. Staudt, MD MSc; Rushna Ali, MD

Stimulation vs. Lesioning: Target Selection, Current Evidence, and Practice Parameters for Management of Cancer Pain

Amitabh Gulati, MD

Tailoring DBS for Chronic Pain

Prasad Shirvalkar, MD PhD

Case Discussions 1: Lesioning vs. Stimulation for Long-Term Management of Cancer Pain

Ahmed Raslan, MD

Case Discussions 2: Lesioning vs. Stimulation for Long-Term Management of Non-Cancer Pain

Konstantin V. Slavin, MD



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MECHANISM, INDICATIONS, AND SAFETY OF PNS

Moderators: Suzanne Manzi, MD; David Spinner, DO

Mechanism of PNS

Jennifer Hah, MD

PNS, DRG or SCS?

Matthew J. Pingree, MD

Special Considerations for PNS

Michael A. Fishman, MD MBA

Evidence: Safety & Indications

TBD

THE BUSINESS OF NEUROMODULATION: WHAT YOU NEED TO KNOW - SESSION 2: MANAGING YOUR LIFE AND YOUR PATIENT'S LIFE

Moderators: Ludy C. Shih, MD

Experiencing Burnout and Maintaining Wellness

Ludy C. Shih, MD

Team Development

Julie G. Pilitsis, MD PhD

Enhancing the Patient Experience Through Technology

Amir Hadanny, MD

Coding for Pandemics and Implementation of Telehealth

Joshua M. Rosenow, MD FACS

ADVANCING PAIN MANAGEMENT SCIENCE AND EDUCATION: ASRA SPECIAL SESSION

Moderators: David A. Provenzano, MD; Eugene R. Viscusi, MD

Buprenorphine Initiation and the Pain Physician

Eugene R. Viscusi, MD

Non-Invasive Neurostimulation for Headaches

Samer N. Narouze, MD PhD

Fluoroscopy Safety in Interventional Pain Medicine: The Need for Additional Education

David A. Provenzano, MD

Consensus Practice Guidelines on Interventions for Lumbar Facet Joint Pain From a Multispecialty, Internat

Steven P. Cohen, MD



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CONNECTING WITH OUR PATIENTS: EDUCATIONAL TOOLS TO IMPROVE UNDERSTANDING AND ACCESS TO NEUROMODULATION THERAPIES

Moderators: Brittany Grovey, MD; Erika A. Petersen, MD

Knowledge Is Power: Connecting to Patients Through Science of Neuromodulation Mechanism of Action

Magdalena M. Anitescu, MD PhD

Social Media Tactics and Virtual Educational Tools to Improve Patients' Early Access to Neuromodulation Therapy

Jacqueline S. Weisbein, DO

How Structural Racism Drives Health Inequities

Gemayel Lee, MD

Disparities in Spinal Cord Stimulation

Mark R. Jones, MD

**Faculty and presentations subject to change.*