

CME INFORMATION

THE 5th ANNUAL MEETING OF THE AMERICAN SOCIETY OF PAIN AND NEUROSCIENCE "RAISING THE BAR: INNOVATION AND COLLBORATION TO IMPROVE PATIENT CARE" Miami Beach, FL July 13-16, 2023

Target Audience

This educational activity has been designed to meet the needs of Interventional and Surgical Spine Specialists - including physicians and advanced practice providers from disciplines of pain management, orthopedic surgery, neurosurgery, and psychiatry.

Educational Goal

The purpose of this educational activity is to provide participants with evidence-based data, updates, and treatment outcomes on topics in pain and neuroscience.

Learning Objectives

- Discuss update-to-date clinical evidence on treatment of spine and pain disorders.
- Review best practice recommendations within the subspecialties of spine and pain and algorithmic approaches to improve and optimize patient care.
- Explain novel spine and pain therapies.
- Discuss techniques to optimize procedural outcomes.

Accreditation

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of *CMEsolutions* and Pacific Pain and Spine Society. The *CMEsolutions* is accredited by the ACCME to provide continuing medical education for physicians.

The *CMEsolutions* designates this live activity for a maximum of 25.5 *AMA PRA Category 1 Credits*. TM Physicians should claim only the credit commensurate with the extent of their participation in the activity.

FEES

There are fees associated with this activity.

PARTICIPATION REQUIREMENTS

- 1. Read CME Information.
- 2. Attend Sessions credit given commensurate with attendance.

- 3. Logon to the following URL: https://online-med-edu.com/aspnpain/713162023
- 4. Complete evaluation, credit request form, and download or print credit statement.

FACULTY AND DISCLOSURES

CMEsolutions requires everyone in a position to control the content of this activity to disclose any relevant financial conflict of interest they may have as related to the content of this activity. All identified conflicts of interest are thoroughly vetted by CMEsolutions for fair balance, scientific objectivity of studies mentioned in the materials or used as the basis for content, and appropriateness of patient care recommendations. CMEsolutions has mitigated all conflicts of interest prior to this educational activity.

Rany T. Abdallah, MD, PhD, MBA

Physician, Apico Pain Management

Wilmington, DE

Disclosed the following relevant financial relationships: Abbott, Avanos, Medtronic-Consultant, Speaker

Alaa Abd- Elsayed, MD, MPH, CPE, FASA

Medical Director, UW Health Pain Services

Madison, WI

Disclosed the following relevant financial relationships: Medtronic, Curonix, Avanos, Averitas, SPR-Consultant

Mansoor M. Aman, MD

Interventional Pain Medicine Advocate, Aurora Health

Oshkosh, WI

Disclosed the following relevant financial relationships: Abbott, Vertos, SPR Therapeutics, Bioventus-Consultant

Kasra Amirdelan, MD

Pain Medicine Specialist, Saint Francis Memorial Hospital and John Muir Health, Walnut Creek Medical Center

Walnut Creek, CA

Disclosed the following relevant financial relationships: Nevro, Biotronik-Consultant, Faculty, SAB, Research; Boston Scientific, Vivex-Consultant, Faculty, Research; Medtronic, Mesoblast-Consultant, Research; Regeltec-Consultant, SAB

Leon Anijar, MD

Interventional Pain Specialist, Spine and Wellness Centers of America South Beach Miami, FL

Has no relevant financial relationships to disclose.

Matthew Antonucci, DC

Assistant Professor of Neurology, Carrick Institute

Cape Canaveral, FL

Has no relevant financial relationships to disclose.

Ajay Antony, MD

Physician, Interventional Pain, The Orthopaedic Institute

Gainesville, FL

Disclosed the following relevant financial relationships: Abbott, Boston Scientific, Painteq, Saluda-Consultant, Research; Vertos-Consultant

Nomen Azeem, MD FAAPMR

Interventional Pain Medicine Specialist, CEO Florida Spine & Pain Specialists; Assistant Professor of Pain Medicine, University of South Florida-Department of Neurology

Riverview, FL

Disclosed the following relevant financial relationships: Abbott, Medtronic-Speaker; Biotronik-Advisor; Painteq, Vivex, Ethos Lab -Advisor, Speaker, Research; Spinal Simplicity-Advisor; Speaker; Research, Stocks; OptioVertos-Speaker, Advisor

Ashley Bailey-Classen, DO

Associate Medical Director, Trinity Pain Specialists, Trinity Interventional Pain & Spine Fort Worth, TX

Disclosed the following relevant financial relationships: Spinal Simplicity, Biotronik-Medical Advisory Board; Nevro-Consultant; Medtronic-Speaker's Bureau

Sanjay Bakshi, MD, MBA

Pain Management Physician, PRC Alliance Pain Relief Centers

Daytona, FL

Has no relevant financial relationships to disclose.

Douglas P. Beall, MD

Chief of Services, Comprehensive Specialty Care

Edmond, OK

Disclosed the following relevant financial relationships: Medtronic, Spineology, Merit Medical, Johnson & Johnson, IZI, Techlamed, Peterson Enterprises, Medical Metrics, Avanos, Boston Scientific, Sollis Pharmaceuticals, Simplify Medical, Stryker, Lenoss Medical, Spine BioPharma, Piramal, ReGelTec, Nanofuse, Spinal Simplicity, Pain Theory, Spark Biomedical, Micron Medical Corp, Bronx Medical, Smart Soft, Tissue Tech, RayShield, Stayble, Thermaquil, Vivex, Stratus Medical, Genesys, Abbott, Eliquence, SetBone Medical, Amber Implants, Cerapedics, Neurovasis, Varian Medical Systems, Companion Spine, DiscGenics, Discure, SpinaFX, PainTEQ-Consultant; Medtronic, Medical Metrics, Avanos, Relievant, Boston Scientific, Stryker, Sollis Pharmaceuticals, Simplify Medical, Lenoss Medical, Spine BioPharma, Eliem Therapeutics, Smart Soft, Tissue Tech, Vivex, Stratus Medical, Restorative Therapies, Kolon TissueGene, Companion Spine, DiscGenics-Research; Medtronic, ReGelTec, Nanofuse, Talosix, Spinal Simplicity, Pain Theory, Spark Biomedical, Smart Soft, Tissue Tech, Bronx Medical, Thermaquil, Vivex, Genesys, SetBone Medical, Amber Implants, Cerapedics,

SpinaFX, Aclarion, Vivex-Advisory Board; Artio, Sophiris, Eleven Biotherapeutics, Flow Forward, Lenoss Medical, ReGelTech, Spark Biomedical-Stocks; Stryker, Medtronic, Boston Scientific, Merit, Avanos, Piramal, Genesys, Eliquence-Speaker Bureau

Marshall Bedder, MD, FRCPC

Associate Professor and Director, Addition Medicine Fellowship Program, Augusta University Health Augusta, GA

Disclosed the following relevant financial relationship: Neuralace Medical-Consultant

Helen M. Blake, MD, MBA

Interventional Pain Physician, Pain and Rehabilitation Specialists

Chesterfield, MO

Disclosed the following relevant financial relationship: Abbott-Consultant

Angel Boev, MD, FSCS

Neurosurgery Specialist, Rochester Regional Health

Rochester, NY

Disclosed the following relevant financial relationships: Aurora Spine-Consultant, Advisor; Abbott, Neuromodulation-KOL

Chris Bovinet, MD, FAAPMR

Medical Director, The Spine Center of Southeast Georgia

Brunswick, GA

Disclosed the following relevant financial relationships: Nevro, Painteq, Boston Scientific, Spinal Simplicity-Consultant

Patrick Buchanan, MD

Physician, Interventional Pain Management, Spanish Hills Interventional Pain Specialists Camarillo, CA

Disclosed the following relevant financial relationships: Abbott, Painteq-Consultant, Researcher

Ryan Budwany, MD

Physician, Center for Pain Relief

Charleston, WV

Has no relevant financial relationships to disclose.

Anjum Bux, MD

Anesthesiologist, Pain Management, Bux Pain Management

Danville, KY

Disclosed the following relevant financial relationships: Medtronic, AIS Healthcare, Vertos, Boston Scientific, Cornerloc-Consultant

Kevin Cairns, MD, MPH

Interventional Pain Medicine, Florida Spine Specialists

Ft. Lauderdale, FL

Disclosed the following relevant financial relationship: Boston Scientific-Consultant

Aaron K. Calodney, MD, FASA, FIPP, ABIPP

Director of Clinical Research, Precision Spine Care

Tyler, TX

Disclosed the following relevant financial relationships: Pain Teq, Tissue Tech, Medtronic, Stryker, Nevro, Boston Scientific-Consultant

Kenneth Candido, MD

Pain Medicine Specialist, Advocate Illinois Masonic Medical Center

Elmhurst, IL

Has no relevant financial relationships to disclose.

Alexios Carayannopoulos, MD, MPH

Director, Logistics, and Faculty Management, Lifespan Physician Group

Providence, RI

Has no relevant financial relationships to disclose.

Jonathan Carlson, MD

Pain Management Physician, Hawaii Pain & Spine

Kailua, HI

Disclosed the following relevant financial relationships: Abbott, Biotronik, CornerLoc-Speaker, Consultant, Advisory Board; Mainstay-Speaker, Consultant, Advisory Board; Viadisc, Boston Scientific, Saluda-Speaker, Consultant; Medtronic-Researcher

Kenneth B. Chapman, MD

Physician in Pain Management and Anesthsiology, Spine and Pain Institute of New York New York, NY

Disclosed the following relevant financial relationship: Abbott-Researcher

Jianguo Cheng, MD, PhD

Professor and Director, Cleveland Clinic

Cleveland, OH

Has no relevant financial relationships to disclose.

Pooja R. Chopra, MD

Physician, Henry Ford Hospital

Irvine, CA

Has no relevant financial relationships to disclose.

Sandy Christiansen, MD

Assistant Professor, Oregon Health & Science University

Portland, OR

Has no relevant financial relationships to disclose.

Anne T. Christopher, MD

Medical Director, St. Louis Pain Consultants

St. Louis, MO

Disclosed the following relevant financial relationships: Abbott, Biotronik-Consultant

Mark Coleman, MD

Director of Clinical Services, National Pain and Spine Centers

Pikesville, MD

Disclosed the following relevant financial relationships: Abbott, Vertos Medical, Averitas-Consultant

Ashley Comer, NP-C

Nurse Practitioner, Spine and Nerve Centers of the Virginias

Charleston, WV

Disclosed the following relevant financial relationships: Abbott, Nalu, Saluda, PainTEO, SPR

Therapeutics, Vertos, Spinal Simplicity, Informed Consent-Consultant

Harold Cordner, MD

Physician in Pain Management and Anesthsiology, Florida Pain Management Associates Sebastion, FL

Has no relevant financial relationships to disclose.

Eric G. Cornidez, MD, MBA

Chief Medical Officer, Pain Institute of Southern Arizona

Tucson, AZ

Disclosed the following relevant financial relationships: Abbott-Consultant, Speaker; Biotronik-Consultant

Alane B. Costanzo, MD

Pain Management Physician, Self-Employed

San Diego, CA

Has no relevant financial relationships to disclose.

Iden Cowan, MD

Physician in Pain Management and Anesthsiology, Capitol Pain Institute

Austin, TX

Has no relevant financial relationships to disclose.

Ryan D'Souza, MD

Interventional Pain Physician, Mayo Clinic

Rochester, MN

Disclosed the following relevant financial relationships: Nevro Corp, Soal Therapeutics-Investigator

Michael Danko, MD

Physician, Premier Pain Treatment Institute

Wilder, KY

Disclosed the following relevant financial relationships: Medtronic-Consultant, Researcher, Abbott-Consultant; Celeri Health-Researcher

Timothy T. Davis, MD

Interventional Pain Management Specialist, Source Healthcare

Santa Monica, CA

Disclosed the following relevant financial relationships: Abbott-Research, Speaker, Consultant, Advisory Board; Biostar-Research, Consultant, Advisory Board; Discgenics-Research, Advisory Board; Kolon Tissuegene-Research, Consultant, Advisory Board; PeteHealth-Stocks; Mesoblast-Research; Blubyrd Corp-Stocks; Boston Scientific-Research, Speaker, Advisory Board: Vivex-Research: Xalud-Research; Medtronic- Speaker, Consultant; SI Bone-Research, Speaker, Consultant, Advisory Board

Miles R. Day, MD, DABA, FIPP, DABIPP

Traweek-Racz Endowed Professor in Pain Research, Medical Director - The Pain Center at Grace Clinic Pain Medicine Fellowship Director, Texas Tech University HSC Lubbock, TX

Has no relevant financial relationships to disclose.

Timothy R. Deer, MD

Clinical Professor of Anesthesiology, West Virginia University School of Medicine; Chairman, ASPN Charleston, WV

Disclosed the following relevant financial relationships: Abbott, Vertos, SpineThera, Saluda, Nalu, Cornerloc, Ethos, SPR Therapeutics, Medtronic, Boston Scientific, PainTeq, Tissue Tech, Spinal Simplicity, Biotronik-Consultant; Biotronik, Abbott, Nalu, SPR Therapeutics, Tissue Tech-Advisory Board; Ethos, Saluda, Nalu, Cornerloc, SPR Therapeutics, PainTeq, Spinal Simplicity-Stocks; Abbott-Pending Patent; Abbott, Vertos, Saluda, Mainstay, SPR Therapuetics, Boston Scientific, PainTeq, Avanos-Researcher

Thomas del Guercio, MD

Interventional Pain Physician, Advanced Orthopedics and Sports Medicine Institute Freehold, NJ

Has no relevant financial relationships to disclose.

Daniel Denis, MD, MSc, FRSCS

Neurosurgeon, Ochsner Health

New Orleans, LA

Disclosed the following relevant financial relationships: Abbott-Consultant, Stocks, Globus Medical-Consultant, Stocks, Royalties; Johnson & Johnson, SI Bone-Consultant

Mehul J. Desai, MD, MPH

Physician, Medical Director, Pain and Physical Medicine, International Pain, Spine, and Performance Center

Washington DC

Disclosed the following relevant financial relationships: Nalu Medical-Consultant; SPR Therapeutics, Virdio Health, Virdio Health-Consultant, Stocks; VSRYSA-Consultant, Stocks, Royalties

Myrdalis Diaz-Ramirez, MD

Physician in Pain Management and Anesthsiology, Private Practice

Sarasota, FL

Has no relevant financial relationships to disclose

David Dickerson, MD

Anesthesiologist, Section Chief for Pain Management, North Shore University Health System Evanston, IL

Disclosed the following relevant financial relationships: Abbott, Vertos, SPR, Biotronik-Consultant

Jack Diep, MD

Medical Director, Lakeside Spine & Pain

Lake Havasu City, AZ

Disclosed the following relevant financial relationship: Boston Scientific-Consultant

Sudhir Diwan, MD

Physician Advanced Spine on Park Avenue

Mahwah, NJ

Disclosed the following relevant financial relationships: CornerLoc-Consultant; Apex, Mainstay Medical-Speaker's Bureau

Michael J. Dorsi, MD

Assistant Professor of Neurosurgery, UCLA; Neurosurgion, Westlake Village Primary & Specialty Care Westlake Village, CA

Disclosed the following relevant financial relationships: Nevro, Abbott, Biotronik, Saluda, Nuvasive-Consultant

Shravani Durbhakula, MD, MPH, MBA

Assistant Professor, Vanderbilt University School of Medicine

Nashville, TN

Has no relevant financial relationships to disclose.

Brian Durkin, DO

Division Chief, New York Spine & Pain Specialists

East Setauket, NY

Disclosed the following relevant financial relationships: Relievant, Vertos, Nevro, Avanos, CornerLoc-Consultant

Maxim Eckmann, MD

Physician in Pain Management and Anesthsiology, UT Health San Antonio San Antonio, TX

Disclosed the following relevant financial relationships: Avanos-Instructor, Technical Consultant, Abbott-Clinical Events Committee, Clinical Trials, SPR Therapeutics-Funded Research to Institution

Mitchell Engle, MD

Physician, Institute of Precision Pain Medicine

Corpus Christi, TX

Disclosed the following relevant financial relationships: Nalu Medical-Consultant; Nalu Medical, Boston Scientific, Nevro SPR Sprint, Saol Therapeutics-Research

Alexander Escobar, MD

Anesthesiologist, ProMedica Fostoria Community Hospital

Oregon, OH

Disclosed the following relevant financial relationships: Abbott, Boston Scientific, Vertiflex, Painteq-Consultant; Medtronic-Advisory Board, Speaker; Nevro-Advisor, Speaker's Bureau; Vertos Medical-Advisory Board

Yashar Eshraghi, MD

Medical Director, Ochsner Health

New Orleans, LA

Disclosed the following relevant financial relationships: Avanos, SPR, SGX, Medtronic-Consultant; Biohaven-Researcher, PI; Autonomous Healthcare-Researcher, Consultant; Saluda Medical Americas-Advisor; KOS Scientific Limited, Capri Medical Limited-Advisor

Michael F. Esposito, MD

Pain Management Specialist, Interventional Pain & Spine Institute

Vero Beach, FL

Disclosed the following relevant financial relationships: Abbott, Boston Scientific, Medtronic, Nevro, Stimwave, Curonix-Consultant, Speaker, Advisory Board; OrthoFundamentals-Consultant, Speaker, Advisory Board, Stocks

Steven M. Falowski, MD

Functional Neurosurgeon, Neurological Associates of Lancaster

Lancaster, PA

Disclosed the following relevant financial relationships: Abbott, Medtronic, Saluda, CornerLoc, Mainstay-Consultant; Saluda, SPR Therapeutics, CornerLoc, PainTEQ, SpineThera, Aurora-Stocks

Kris Ferguson, MD

Anesthsiologist, Pain Management Specialist, Aspirus Health

Antigo, WI

Has no relevant financial relationships to disclose.

Michael A. Fishman, MD, MBA

Anesthsiologist, Pain Management Specialist, Centers for Interventional Pain & Spine Lancaster, PA

Disclosed the following relevant financial relationships: Biotronik, Medtronic-Consultant; Medtronic, Nalu, Abbott, Saluda Medical-Researcher; Brixton Biosciences, Thermaquil-Advisor; Celeri Health, Thermaquil-Stocks

Vinny Francio, MD

Fellow, Interventional Pain Medicine; Department of Anesthesiology & Pain Medicine, The University of Kansas Medical Center

Kansas City, KS

Disclosed the following relevant financial relationship: Nevro Corp-Researcher

Vincent Galan, MD, MBA

Medical Director, Georgia Pain Care

Stockbridge, GA

Has no relevant financial relationships to disclose.

George M. Galvan, MD, FAANS

Neurosurgeon, Texas Neuro Spine

San Antonio, TX

Disclosed the following relevant financial relationships: Abbott, Nevro-Consultant

Priyanka Ghosh, MD

Physician Intervetnional Pain, Remedy Medical Group

San Francisco, CA

Has no relevant financial relationships to disclose.

Christopher J. Gilligan, MD

Associate Chief Medical Officer and Pain Medicine Physician, Brigham and Women's Hospital, Harvard Medical School

Weston, MA

Disclosed the following relevant financial relationships: Mainstay Medical, Saluda, Persica, Iliad Lifesciences-Consultant

Christopher A. Gilmore, MD

Physician, Carolinas Pain Institute

Winston-Salem, NC

Disclosed the following relevant financial relationships: SPR Therapeutics, Nalu Medical, Shiratronics, Saluda Medical, Biotronik, Nevro-Consultant; SPR Therapeutics, Nalu Medical-Research; SPR Therapeutics, Saluda Medical, Biotronik-Advisor

George E. Girardi, MD

Pain Medicine Specialist, UCHealth Pain Management Clinic

Fort Collins, CO

Disclosed the following relevant financial relationships: Abbott, Painteq-Consultant

Anthony Giuffrida, MD

Physiatrist, Director Interventional Spine and Pain Management, Cantor Spine Center

Fort Lauderdale, FL

Disclosed the following relevant financial relationships: Relievant MedSystems, Mainstay Medical, Nevro-Consultant; Spinal Simplicity-Stocks

Stanley Golovac, MD

Pain Management Physician, Golovac Eductional Consulting

Cora Gables, FL

Has no relevant financial relationships to disclose.

Johnathan Goree, MD

Anesthsiologist, Pain Management Specialist, and Associate Profesor of Anesthesiology University of Arkansas for Medical Sciences

Little Rock, AR

Disclosed the following relevant financial relationships: Abbott, Saluda, Stratus-Consultant

Warren Grace III, MD

Director of Neuromodulation and Implantable Therapies, Interventional Spine and Pain Management, Redefine Healthcare

Union, NJ

Disclosed the following relevant financial relationships: Abbott, Relievant MedSystems-Consultant; Medtronic, Nevro-Stocks

Jay S. Grider, DO, PhD, MBA

Chief Physician Executive, UKHealthCare; Professor, Department of Anesthesiology, University of Kentucky College of Medicine

Lexington, KY

Has no relevant financial relationships to disclose.

Casey Grillo, FNPC

Nurse Practitioner, The Spine & Pain Institute of New York

New York, NY

Disclosed the following relevant financial relationships: Abbott, Nalu-Consultant, Speaker

Maged Guirguis, MD

System Chair - Interventional Pain Management, Associate Professor - Department of Anesthesiology & Critical Care Medicine, Ochsner Health System University of Queensland Ochsner Medical School Clinical Assistant Professor - Louisiana State University School of Medicine

New Orleans, LA

Disclosed the following relevant financial relationships: Nevro, Boston Scientific, Abbott, Saluda, Avanos-Consultant; Nevro, Boston Scientific, Saluda, Avanos-Research

Amitabh Gulati, MD

Anesthesiologist and Chronic Pain Specialist, Memorial Sloan Kettering Cancer Center New York, NY Disclosed the following relevant financial relationships: Medtronic, SPR Therapeutics, Nalu Medical, Avertias Medical-Consultant; AIS Healthcare, Hinge Health, Tersera Medical, Neurovasis-Advisory Board

Mayank Gupta, MD

Physician, Neuroscience Research Center, LLC

Overland Park, KS

Disclosed the following relevant financial relationships: Nevro, Averitas Pharma, Nalu Medical, Vertos-Consultant; Nevro, Averitas Pharma, Nalu Medical, Vertos-Speaker; Nevro, Averitas Pharma-Advisory Board; Nevro, Avertias Pharma, Nalu Medical, Vertos-Investigator

Jonathan M. Hagedorn, MD

Associate Professor of Anesthesiology and Perioperative Medicine, Mayo Clinic

Rochester, MN

Has no relevant financial relationships to disclose.

Jennifer Hah, MD, MS

Associate Professor, Division of Pain Medicine, Department of Anesthesiology, Perioperative, and Pain Medicine- Stanford University

Palo Alto, CA

Disclosed the following relevant financial relationships: SPR Therapeutics, Nalu Medical-Consultant

John A. Hatheway, MD

Physician, Northwest Pain Care, PS

Spokane, WA

Disclosed the following relevant financial relationships: Medtronic, Boston Scientific-Consultant, Speaker, Researcher; Nalu-Speaker, Researcher

Salim Hayek, MD, PhD

Chief, Division of Pain Medicine, University Hospitals Cleveland Medical Center

Cleveland, OH

Has no relevant financial relationships to disclose.

Jeffrey S. Henn, MD

Neurological Surgeon, Joint Implant Surgeons

Fort Meyers, FL

Disclosed the following relevant financial relationships: Painteq-Consultant, Medical Advisor; Integrity Implants, Aurora Spine-Royalty

Josh Hirsch, MD

Radiologist, Massachusetts General Hospital

Boston, MA

Disclosed the following relevant financial relationships: Medtronic, Relievant-Consultant; Balt, Rapid Medical-DMSB Chair

Corey W. Hunter, MD, FIPP

Executive Director: Ainsworth Institute of Pain Management; Chief Executive Officer: Ainsworth Ambulatory Surgery Center, LLC; Assistant Clinical Professor of Physical Medicine & Rehabilitation | Mount Sinai Hospital; President-Elect: North American Neuromodulation Society New York, NY

Disclosed the following relevant financial relationships: Abbott, Saluda, Biotronik, PainTeq, Vertos, Mainstay Medical-Consultant; Abbott, Saluda, Spine Biopharma, Tissuegene, Averitas-Researcher

Namath S. Hussain, MD, MBA

Attending, Neurosurgery Service, Loma Linda University Medical Center Loma Linda, CA

Has no relevant financial relationships to disclose.

Zhora Hussaini, MSN, FNP-BC

Nurse Practitioner, University of Kansas Medical Center

Overland Park, KS

Disclosed the following relevant financial relationships: Averitas, Nevro, Pain Teq, SPR Therapeutics-Consultant; Vertos-Advisory Board

Jonathan Hyde, MD

Orthopaedic Surgeon, Miami Spine Specialist

Miami Beach, FL

Disclosed the following relevant financial relationships: Nuvasive, Camber/IMSE, Spinal Elements-Royalties; Camber/IMSE, Spinal Elements-Speaker; Camber IMSE, Spinal Simplicity-Advisory Board; Spinal Simplicity, Osseous-Stocks

Whitney James, MD, MHS

Neuromodulatory Surgery, James Marco Health

Prescott, AZ

Disclosed the following relevant financial relationships: Abbott, Boston Scientific-Consultant, Proctor

Navdeep Jassal, MD

Physician Pain Management, EXCEL Pain and Spine

Lakeland, FL

Has no relevant financial relationships to disclose.

Ru-Rong Ji, PhD

Professor of Anesthesiology, Director, Center for Translational Pain Medicine, Duke University Medical Center

Durham, NC

Disclosed the following relevant financial relationships: Boston Scientific-Consultant, Grant

Ramoun Jones, MD

Interventional Pain Specialist, Pain Center of Arizona

Phoenix, AZ

Disclosed the following relevant financial relationships: Painteq, CornerLoc-Consultant

Youssef Josephson, DO

Physician, Modern Spine and Pain, PC

Philadelphia, PA

Disclosed the following relevant financial relationships: Abbott, Painteq-Consultant

Hemant Kalia, MD, MPH

Medical Director, Invision Spine & Pain

Rochester, NY

Has no relevant financial relationships to disclose.

Daniel Kanzer, MD

Anesthesiologist, Icahn School of Medicine at Mount Sinai Hospital

New York, NY

Has no relevant financial relationships to disclose.

Leonardo Kapural, MD, PhD

Pain Physician, Carolinas Pain Institute; Clinical Professor of Anesthesiology, Florida Atlantic University, Charles E Smith College of Medicine, Boca Ratton, FL

Winston Salem, NC

Has no relevant financial relationships to disclose.

Jad Khalil, MD

Fellowship Director Spine Surgery, William Beaumont Hospital

Southfield, MI

Disclosed the following relevant financial relationships: Centinel Spine, Boston Scientific, Nevro, Nuvasive, Medtronic, Relievant, Stryker, SI Bone, Zimvie-Consultant

Nasir Khatri, MD

Interventional Pain Physician, Novant Health

Charlotte, NC

Has no relevant financial relationships to disclose.

Christopher K. Kim, MD

Anesthsiologist, Pain Management Specialist and Vice President, The Spine and Nerve Centers of Virginias

Charleston, WV

Disclosed the following relevant financial relationships: Vertos, Boston Scientific, Abbott, Painteq-Consultant

Aashish Jay Kumar, MD, DABA

Chief Medical Officer, Spine & Pain Specialists of the Carolinas

Charlotte, NC

Has no relevant financial relationships to disclose.

Nandan Lad, MD, PhD

Neurosurgeon, Duke University Health System

Durham, NC

Disclosed the following relevant financial relationships: Medtronic, Nevro, Abbott, Boston Scientific, Saluda Medical, Presidio Medical-Consultant; Minnetronix-Advisor

Christopher M. Lam, MD

Assistant Professor of Anesthesiology and Pain Medicine, The University of Kansas Health System Kansas City, KS

Has no relevant financial relationships to disclose.

Meredith Langhorst, MD

Non-Operative Spine Physician, OrthoIndy

Fishers, IN

Disclosed the following relevant financial relationships: Mainstay Medical-Faculty, Consultant; Vivex-Scientific Advisory Board

Usman Latif, MD, MBA

Associate Professor, The Univsersity of Kansas Hospital

Leawood, KS

Disclosed the following relevant financial relationships: Nalu, Nevro, Spinal Simplicity, Omnia Medical, Hydrocision, Vertos, Informed Consent-Consultant; Nalu, Nevro, Spinal Simplicity, Vertos-Speaker; Nalu, Nevro, InFormed Consent-Advisory Board; Mainstay Medical-Research; InFormed Consent-Equity

David W. Lee, MD

Interventional Pain Specialist, Fullerton Orthopedic Surgery Medical Group

Fullerton, CA

Disclosed the following relevant financial relationships: Abbott, Medtronic, Mainstay Medical, Boston Scientific, Petal Surgical-Consultant

Eric T. Lee, MD

Physician, Mililani Pain Center

Mililani, HI

Disclosed the following relevant financial relationships: Abbott Medical, Boston Scientific, Biotronik-Consultant; Abbott Medical, Boston Scientific, Biotronik-Researcher

Jennifer Marie Lee, MD

Staff Physician, Evergreen Health Pain Care

Kirkland, WA

Disclosed the following relevant financial relationships: Boston Scientific-Consultant, Instructor, Speaker

Michael S. Leong, MD

Director of Neuromodulation, Clinical Professor, Stanford Pain Management Center Redwood City, CA

Disclosed the following relevant financial relationship: Wex Pharmaceuticals-Researcher

Robert Levy, MD, PhD

Neurosurgeon, Editor-in-Chief, Neuromodulation: Technology at the Neural Interface Boca Raton, FL

Disclosed the following relevant financial relationships: Biotronik, Nalu, Saluda-Consultant; Saluda, Nalu-Stocks

Sean Li, MD

Regional Medical Director, National Spine and Pain Centers

Shrewsbury, NJ

Disclosed the following relevant financial relationships: Abbott, Vertos, Avanos, Averitas, Biotronik, Boston Scientific, Nevro, Saluda, SPR Therapeutics, PainTeq, Nalu, NeuroOne-Consultant; Avanos, Averitas, Biotronik, Boston Scientific, Nevro, Saluda, SPR Therapeutics, PainTeq, Nalu-Researcher; Nalu, NeuroOne-Stocks

Timothy R. Lubenow, MD

Director, Pain Medicine Fellowship, Professor, Department of Anesthesiology, RUSH Medical College Chicago, IL

Disclosed the following relevant financial relationships: Abbott, Nevro, Boston Scientific, Nevro, Medtronic, Pain Teq-Consultant

Paul Lynch, MD

Pain Management Physician, AZ Dentist Multidisciplinary Clinic

Scottsdale, AZ

Disclosed the following relevant financial relationships: Nevro, Nalu, Omnia, Lucid Lane-Consultant

Mark N. Malinowski, DO, DABA, DABPM, FIPP

Physician, OhioHealth Neurological Physicians

Columbus, OH

Disclosed the following relevant financial relationships: Biotronik-Advisory Board; Abbott, NALU Medical, SI Bon-Consultant

Gladstone C. McDowell II, MD

Medical Director, Integrated Pain Solutions

Columbus, OH

Disclosed the following relevant financial relationship: TerSera-Consultant

Tory L. McJunkin, MD

Medical Director, Bladder Centers of America, Physician, Arizona Pain Specialists

Paradise Valley, AZ

Disclosed the following relevant financial relationship: Nevro-Consultant

Kathleen Meacham, MD, PhD

Interventional Pain Management, Staff Anesthesiologist, Saint Louis VA Healthcare System St. Louis, MO

Disclosed the following relevant financial relationship: Biotronik-Consultant

Neel Metha, MD

Medical Director, Pain Management, Weill Cornell Medicine Department of Anesthesiology New York, NY

Disclosed the following relevant financial relationships: Boston Scientific, Nevro, Averitas, Salix-Consultant

Pakanj Mehta, MD

Clinical President, Chief Medical Officer, Pain Specialists of America Austin, TX

Has no relevant financial relationships to disclose.

Nagy Mekhail, MD, PhD

Professor of Anesthesiology, Cleveland Clinic Lerner College of Medicine Cleveland, OH

Has no relevant financial relationships to disclose.

John S. Michels, MD

Physician Interventional Pain, Interventional Spine and Pain in Dallas

Dallas, TX

Has no relevant financial relationships to disclose.

Brittney Misercola, NP

Nurse Practitioner, Pain management, Pain Specialists of America

Lampasas, TX

Disclosed the following relevant financial relationships: Abbott, Relievant, Spinal Simplicity, Pain Teq-Consultant

Greg Moore, MD

Chief Medical Officer, Pacific Sports and Spine

Eugene, OR

Disclosed the following relevant financial relationships: Relievant, Abbott, Boston Scientific, Vertos-Consultant; Relievant, Abbott, Boston Scientific, Saol Therapeutics, Aurora Spine, Mainstay Medical, Nalu-Researcher

Soriaya Motivala, MD

Neurosurgery, Northwell Health

Staten Island, NY

Disclosed the following relevant financial relationships: Abbott, Nevro-Faculty; Abbott, Medtronic-Speaker; Boston Scientific-Consultant

Melissa Murphy, MD, MPH

Physician in Pain Management, North Texas Orthopedics and Spine Center

Grapevine, TX

Disclosed the following relevant financial relationships: Medtronic, Relievant-Consultant; Medtronic-Researcher, Advisor, Speaker

Ramana K. Naidu, MD

Physician, California Orthopedics & Spine

Larkspur, CA

Disclosed the following relevant financial relationships: Abbott, Avanos, Biotronik, Bioventus, Boston Scientific, Vivex, Medtronic, SPR Therapeutics, Nalu Medical, SI Bone, Pain Teq, Relievant-Consultant

Ali Nairizi, MD, MS

Pain Specialist, Reno Tahoe Pain Specialists

Reno, NV

Disclosed the following relevant financial relationships: Nevro, Aurora Spine-Consultant; Nevro-Speaker, Researcher; Aurora Spine-Stocks

Morad Nasseri, MD

Interventional Pain Specialist, Neurologist, Boomerang Healthcare

Walnut Creek, CA

Disclosed the following relevant financial relationship: Nevro-Consultant

Yeschvant A. Navalgund, MD

National Spine and Pain Centers; Chief Medical Officer for Ambulatory Surgery

North Huntington, PA

Disclosed the following relevant financial relationships: Abbott, Medtronic, Nevro, SI Bone-

Consultant; Supreme Compliance-Advisory Board; Harvard Medtech-Advisor

Annu Navani, MD

Chief Medical Officer, Boomerang Health

Walnut Creek, CA

Disclosed the following relevant financial relationships: Emcyte, Scilex-Consultant; Emcyte-

Researcher; CornerLoc, La Reve Regenerative Wellness-Advisor

Daniel Nguyen, MD

Physician, Comprehensive Specialty Care

Edmond, OK

Disclosed the following relevant financial relationships: Mainstay Medical, Stratus Medical-Consultant

Harold Nijhuis, MD

Physician, St. Antonius Hospital Nieuwegein

Nieuwegein, Netherlands

Disclosed the following relevant financial relationships; Abbott, Salvia, Saluda-Consultant; Abbott-

Education Grant

Selaiman Noori, MD

Physician, Lakeside Spine & Pain

Lake Havasu City, AZ

Disclosed the following relevant financial relationships: Boston Scientific-Consultant, Researcher

James North, MD

Physician, Carolinas Pain Institute

Winston- Salem, NC

Disclosed the following relevant financial relationships: Boston Scientific, Averitas Pharma, Eagle Pharma-Consultant

Pierce D. Nunley, MD

Medical Director, Spine Institute of Louisiana

Shreveport, LA

Disclosed the following relevant financial relationships: Spineology, Camber Spine, Accelus, Regeltec, Nuvasive, Spinal Elements-Consultant; Stryker, Spineology, Zimmer, Camber Spine, Accelus, Spinal Elements-Royalties; Spineology, NuVasive-Researcher; Accelus, Regeltec-Stocks

Vwaire Orhurho, MD, MPH

Interventional Pain Physician, University of Pittsburgh Medical Center, Adjunct Assistant Professor University of Pittsburgh School of Medicine

Williamsport, PA

Disclosed the following relevant financial relationship: Medtronic-Consultant

Aileen Padilla, DO

Physical Medicine and Rehabilitaion, Gardner Orthopedics

Fort Myers, FL

Has no relevant financial relationships to disclose.

Rick Paicius, MD

Physician, Southern California Spine & Sport

Newport Beach, CA

Disclosed the following relevant financial relationships: Spine Biopharma, Abbott, Spinal Singularity, Biotronik, Mainstay, Vertos, Vivex-Consultant; Bluebird- Researcher, Stocks

Daniel Pak, MD

Assistant Professor of Clinical Anesthesiology, Weill Cornell/New York-Presbyterian Hospital New York, NY

Disclosed the following relevant financial relationships: Nevro Corp, Vertos-Consultant; Averitas Pharma-Speaker

Ankur Patel, MD

Attending, Novant Health

Winston Salem, NC

Has no relevant financial relationships to disclose.

Kiran V. Patel, MD

Director of Pain Medicine, Lenox Hill Hospital; Hofstra Northwell SOM Pain Medicine Program Director; Assistant Clinical Professor of Anesthesiology & Pain Medicine; Hofstra Northwell School of Medicine

New York, NY

Disclosed the following relevant financial relationship: Abbott-Consultant

Monika Y. Patel, MD

Associate Staff Interventional Pain Management, Cleveland Clinic Florida Neurosciences Institute Clinical Associate Professor, Florida International University - Herbert Wertheim College of Medicine Weston, FL

Has no relevant financial relationships to disclose.

Raj G. Patel, MD

Interventional Pain Physician, Capitol Pain Institute

Austin, TX

Has no relevant financial relationships to disclose.

Denis G. Patterson, DO

President, Nevada Advanced Pain Specialists; Board of Directors, Pacific Spine & Pain Society Reno, NV

Disclosed the following relevant financial relationships: Abbott, Saluda-Research Grant, Consultant, Speaker's Bureau; Flowonix-Research Grant, Consultant; Nevro, Vertiflex-Research Grant; CornerLoc,-Research Grant, Consultant, Speaker's Bureau, Stocks; Pajunk Medical, Vertos-Consultant, Speaker's Bureau

Erika Petersen, MD

Professor of Neurosurgery, University of Arkansas for Medical Sciences

Little Rock, AR

Disclosed the following relevant financial relationships: Abbott, Biotronik, Medtronic, Nalu, Nevro, Saluda, Presidio Medical-Consultant; Nevro, Saluda-Researcher; SynerFuse-Stock, Advisory Board

Jeffrey Peterson, Esq

Chief Financial Officer, Spine and Nerve Centers of the Virginias

Charleston, WV

Has no relevant financial relationships to disclose.

Edward Podgorski III, MD

Interventional Pain Specialist, Hawthorne Oncology Pain Experts (HOPE)

Tampa, FL

Disclosed the following relevant financial relationships: Medtronic-Faculty; Tersera-Consultant

Jason E. Pope, MD

Pain Medicine, Providence Affiliated Provider

Santa Rosa, CA

Disclosed the following relevant financial relationships: Abbott, Medtronic, Saluda, Flowonix, SpineThera, Vertos, Vertiflex, SPR Therapeutics, Tersera, Aurora, Spark, Ethos, Biotronik, Mainstay, WISE, Boston Scientific, Thermaquil-Consultant; Abbott, Flowonix, Saluda, Aurora, PainTeq, Ethos, Muse, Boston Scientific, SPR Therapeutics, Mainstay, Vertos, AIS, Thermaquil-Researcher; Vertos, SPR Therapeutics, PainTeq, Aurora, Spark, Celeri Health, Neural Integrative Solutions, Pacific Research Institute, Thermaquil, Anesthetic Gas Reclamation-Stocks

Scott G. Pritzlaff, MD, CIPS, FIPP

Associate Professor, Department of Anesthesiology and Pain Medicine, University of California, Davis Sacramento, CA

Disclosed the following relevant financial relationships: Nalu Medical, SPR Therapeutics, EBT Medical-Consultant

John V. Prunskis, MD, FIPP

Medical Director, DxTx Pain & Spine

Barrington, IL

Has no relevant financial relationships to disclose.

Peter G. Psyzbylowski, MD

Attending Physician, Relievus

Haddon Heights, NJ

Disclosed the following relevant financial relationships: Nevro, Camber Spine, Vertos-Consultant

Vinnay Puttanniah, MD

Anesthesiologist, Memorial Sloan Kettering Cancer Center

New York, NY

Has no relevant financial relationships to disclose.

Neal Rakesh, MD, MSE

Assistant Attending, Memorial Sloan Kettering Cancer Center

New York, NY

Has no relevant financial relationships to disclose.

Matthew T. Ranson, MD

Medical Director, Gateway Pain Solutions and Gateway Anesthesia and Pain Associates Gilbert, AZ

Has no relevant financial relationships to disclose.

Ahmad Raslan, MD

Professor, Oregon Health and Science University

Portland, OR

Disclosed the following relevant financial relationships: Abbott, Biotronik-Consultant; Precision Neurotek, Cerebro-Advisory Board

Louis J. Raso, MD

Chief Executive Officer, Raso Pain Center

Jupiter, FL

Has no relevant financial relationships to disclose.

David Reece, DO

Chief, Physical Medicine & Rehabilitation, Interventional Pain, Walter Reed National Military Medical Center

Washington DC

Disclosed the following relevant financial relationships: Medtronic, Nevro, Abbott, Relievant, Averitas, Mainstay, SPR Therapeutics-Educator

Brian K. Rich, MD

Owner & Physician, ACELLerated Interventional Orthopedics, PLLC

Lawton, OK

Disclosed the following relevant financial relationship: Curonix-Advisor, KOL

Brian Rosenblum, MD

Clinical Assistant Professor, Department of Anesthesiology, SUNY, Downstate Medical Center;

Director of Pain Management, Maimonides Medical Center

Great Neck, NY

Disclosed the following relevant financial relationship: Clairus-Consultant

Jason C. Rosenburg, MD

Medical Director, SC Pain & Spine Specialists, LLC

Murrells Inlet, SC

Disclosed the following relevant financial relationships: Vertos, Boston Scientific, Abbott-Consultant; Boston Scientific, NeuraLace-Researcher

Matthew P. Rupert, MD, MS, FIPP

Pain Medicine Specialist, Cool Springs Surgery Center

Franklin, TN

Disclosed the following relevant financial relationships: Shiratronics, Boston Scientific-Consultant

Christy Saia Owenby

Founder & Chief Executive Officer, MOXY Company

Covington, LA

Has no relevant financial relationships to disclose.

Rebecca Sanders, MD

Interventional Pain Physician, Freeman Hospital

Joplin, MO

Disclosed the following relevant financial relationships: Vertos- Consultant, Proctor, Educator

Michael Saulino, MD, PhD

Chief, Chair Department of Physical Medicine and Rehabilitation, Cooper University Healthcare Camden, NJ

Disclosed the following relevant financial relationships: Medtronic, TerSera-Advisory Board; Ispen-Speaker's Bureau; Ispen, Saol-Researcher

Dawood Sayed, MD

Professor of Anesthesiology and Pain Medicine, The University of Kansas Medical Center; Vice Chairman of the Board, The American Society of Pain and Neuroscience; Division Chief, Pain Medicine, Program Director, Multidisciplinary Pain Fellowship

Kansas City, KS

Disclosed the following relevant financial relationships: PainTeq, Saluda, Abbott, Nevor, Vertos, Surgentec-Consultant

Michael E. Schatman, PhD

Clinical Instructor, Department of Anesthesiology, Perioperative Care and Pain Medicine. Affiliate Professor, Department of Population Health - Division of Medical Ethics, NYU Grossman School of Medicine

Kingston, MA

Disclosed the following relevant financial relationships: Modoscript, Collegium Pharma-Consultant; Syneos Health-Content Expert

Keith W. Schmidt, MD

Medical Director, Ascension Hospital-Neuroscience Institute

Lisle, IL

Has no relevant financial relationships to disclose.

Anuj Shah, MD

Resident Physician, Detroit Medical Center (Rehabilitation Institute of Michigan)

Detroit, MI

Has no relevant financial relationships to disclose.

Jay M. Shah, MD, FAAMPR

Medical Director, SamWell Institute for Pain Management

Colonia, NJ

Has no relevant financial relationships to disclose.

Anil K. Sharma, MD

Physician, Spine and Pain Centers; Director, Pain Management- Monmouth Medical Center Wall, NJ

Has no relevant financial relationships to disclose.

Erik Shaw, DO, PC

Medical Director, Shepherd Spine and Pain Institute

Atlanta, GA

Disclosed the following relevant financial relationships: SPR Therapeutics, Boston Scientific, Nalu Medical, Ter Sera, Collegium/BDSI-Consultant

Samir J. Sheth, MD

Physician, Sutter Health

Roseville, CA

Disclosed the following relevant financial relationships: Boston Scientific, Medtronic, Nevro, SPR Therapuetics-Consultant

Gurtej Singh, MD

Lead Interventional Pain and Spine Specialist, Centers for Advanced Orthopaedics, Orthopaedic Associates of Central Maryland

Cantonsville, MD

Disclosed the following relevant financial relationships: Nevro, Medtronic, Kyphon, Mainstay Medical, Southern Spine-Faculty

Vinita Singh, MD

Associate Professor, Emory Pain Division Chief- Anesthesia Department, Emory School of Medicine Atlanta, GA

Has no relevant financial relationships to disclose.

Loannis Skaribas, MD, DABA, FASA

Physician, Expert Pain

Houston, TX

Disclosed the following relevant financial relationship: Abbott-Consultant

Konstantin Slavin, MD, FAANS

Professor, Department of Neurosurgery, University of Illinois at Chicago

Chicago, IL

Has no relevant financial relationships to disclose.

Dawn A. Sparks, DO

Physician, Lighthouse Healing

Lihue, HI

Has no relevant financial relationships to disclose.

Peter S. Staats, MD, MBA

Chief Medical Officer, National Spine and Pain Center

Atlantic Beach, FL

Disclosed the following relevant financial relationships; AIS, Biotronik-Consultant; Biotronik, Saluda, Nalu; AIS-Researcher; SPR Therapeutics-Advisor

Chad Stephens, DO

Physician, Noble Pain and Sports Medicine

Argyle, TX

Disclosed the following relevant financial relationships: Avanos, Spinal Simplicity-Consultant; Avanos, Spinal Simplicity, Genesys-Faculty; Avanos, Spinal Simplicity-Advisory Board

John Stevenson, MD

Neurosurgeon, The Orthopaedic Institute

Gainesville, FL

Disclosed the following relevant financial relationships: Boston Scientific, Abbott, Vertos-Consultant; Accelus-Royalties

Natalie H. Strand, MD

Associate Professor, Mayo Clinic, Division of Pain Medicine

Phoenix, AZ

Has no relevant financial relationships to disclose.

Harry P. Sukumaran, MD

Physician, Pain Clinic of Michigan

Bloomfield Hills, MI

Disclosed the following relevant financial relationships: SPR Therapeutics, Vertos Medical, Medtronic,

Nevro-Consultant; Vertos-Advisor

Tolga Suvar, MD

Assistant Professor, Rush University

Chicago, IL

Disclosed the following relevant financial relationships: Nalu, Medtronic, Nevro-Consultant

Jordan Lee Tate, MD, MPH

Physician, Southern Pain and Spine

Jasper, GA

Disclosed the following relevant financial relationships: Nevro, Abbott, Saluda, Medtronic, Curonix-Consultant

Reda M. Tolba, MD

Department Chair, Pain Management, Cleveland Clinic Abu Dhabi, AUE

Abu Dhabi, AUE

Disclosed the following relevant financial relationships: Medtronic, Abbott-Consultant, Speaker

Ali Valimahomed, MD, FAAPMR

Interventional Pain Medicine Attending, Advanced Orthopedics Sports Medicine Institute; Gramercy Pain Center

Freehold, NJ

Disclosed the following relevant financial relationships: Vertos, Nalu, SPR Therapeutics, GuidePoint Consultants, IntraVu Inc, CornerLoc-Consultant; Advisor: Vertos, Nalu, SPR Therapeutics-Advisor; Nalu SPR Therapeutics-Researcher; Nalu; Educator: Nalu, SPR Therapeutics, IntraVu-Speaker

Stephanie G. Vanterpool, MD, MBA, FASA

Faculty, University of Tennessee Medical Center

Knoxville, TN

Has no relevant financial relationships to disclose.

Paul Verrills, MD

Interventional Pain Management, Director of Metro Pain Group

Lilli Pilli, Australia

Disclosed the following relevant financial relationships: Saluda, Presidio-Consultant; Biotronik-Researcher

Shashank Vodapally, DO

Resident Physician, Northwell Health; Fellow at the Hoftstra/ Northwell ACGME Pain Medicine Fellowship program

New Hyde Park, NY

Has no relevant financial relationships to disclose.

Kevin Vorenkamp, MD, FASA

Chief, Division of Pain Medicine; Assistant Director, Patient Safety and Quality Improvement; Associate Professor, Duke Department of Anesthesiology

Chapel Hill, NC

Has no relevant financial relationships to disclose.

Chau M. Vu, MD

Interventional Pain Physician, Evolve Restorative Center

Santa Rose, CA

Disclosed the following relevant financial relationships: Saluda Medical, Painteq-Researcher, Consultant

Henry Vucetic, MD

Interventional Pain Physician, University Hospitals of Cleveland and Oklahoma State University Pepper Pike, OH

Disclosed the following relevant financial relationships: Boston Scientific, SPR Therapeutics, Vertos-Consultant

Rehan Waheed, DO, JD

Director, Pain Medicine, Valley Pain Consultants

Winchester, VA

Disclosed the following relevant financial relationships: Abbott-Consultant, Researcher

Sayed Emal Wahezi, MD

Program Director, Pain Medicine Fellowship, Montefiore Medical Center; Professor of Physical Medicine and Rehabilitation, Professor of Anesthesiology, & Professor of Orthopedic Surgery, Montefiore Medical Center

Bronx, NY

Disclosed the following relevant financial relationships: Boston Scientific-Consultant; Abbott, Boston Scientific, Vertos-Resercher

Jacqueline Weisbein, DO

Physician, Interventional Pain Management, Napa Valley Orthopedic Medical Group

Napa, CA

Disclosed the following relevant financial relationships: Abbott, Saluda, Biotronik-Consultant, Advisory Board, Researcher; Medtronic, SI Bone-Consultant, Researcher; Abbvie-Speaker Bureau

Derron K. Wilson, MD FIPP

Interventional Pain Management Physician, Goodman Campbell Brain & Spine Carmel, IN

Disclosed the following relevant financial relationships: Abbott, Biotronik, Boston Scientific-Consultant

Edward S. Yoon, MD

Chief of Interventional Radiology & Assistant Professor, Hospital for Special Surgery New York, NY

Has no relevant financial relationships to disclose.

James J Yue, MD

Attending Physician, CT Orthopaedics

Hamden, CT

Disclosed the following relevant financial relationships: Abbott-Speaker, Researcher; Abbott, Aesculap Spine-Consultant; Aesculap Spine-Royalties

Planner Disclosures

No member of *CMEsolutions* or American Society of Pain and Neuroscience has any relevant financial relationships to disclose regarding this activity.

Off-label Use

This activity may contain discussion of unlabeled and/or investigational uses of agents not approved by the FDA. Please consult the prescribing information for each product.

Commercial Support:

Abbott

BSCI

Mainstay

Medtronic

Merit Medical

Nalu

Relievant

Saluda Medical

Spinal Simplicity

SPR Therapeutics

Vertos Medical

WISEneuro

Privacy Policy

CMEsolutions Privacy and Confidentiality Policy: www.online-med-edu.com/privacypolicy.pdf CMEsolutions can be contacted at info@cmesolutions.org.