Curriculum Vitae

Personal Data

Name: Denis G. Patterson, DO

Email: patterson@nvadvancedpain.com

Employment Data

Company: Nevada Advanced Pain Specialists

Title: President

Dates: March 28, 2009 – Present

Address: 5578 Longley Lane

Reno, NV 89511

Phone: (775) 284-8650 Fax: (775) 284-8654

Email: patterson@nvadvancedpain.com

Company: SpineNevada

Title: Director of Non-operative Care
Dates: August 2007 – March 27, 2009
Address: 2845 E. Prater Way, Suite #204

Sparks, NV 89434

Phone: (775) 348-8800

Professional Appointments

Institution: Summit Surgery Center at Saint Mary's Galena

Title: President, Board of Directors
Dates: October 2009 – June 2013
Address: 18653 Wedge Pkwy #170

Reno, NV 89511

Phone: (775) 674-5200 Fax: (775) 674-5228

Institution: Northern Nevada Medical Center

Title: Medical Director of the Pain Management Center

Dates: June 2012 – July 2022

Address: 2385 E Prater Way, Suite 102

Sparks, Nevada 89434

Phone: (775) 284-8650 Fax: (775) 284-8654

Institution: University of Nevada School of Medicine

Title: Faculty in the ECHO Pain Management and Addiction Clinic

Dates: February 2015 – Present

Address: 411 West Second Street

Reno, NV 89503

Phone: (775) 682-8476

Institution: MD Spine Solutions LLC

Title: Medical Director of RxIGHT Pharmacogenetics Program

Dates: November 2015 – November 2021

Address: 10715 Double R. Blvd

Reno, NV 89521

Phone: (775) 391-5221 Fax: (775) 737-9133

Institution: Nevada Advanced Pain Surgical Center LLC

Title: President, Board of Directors
Dates: December 2015 – December 2018

Address: 10719 Double R. Blvd

Reno, NV 89521

Phone: (775) 284-7467 Fax: (775) 295-4844

Institution: University of Nevada School of Medicine

Title: Site Director for Internal Medicine Residency Program

Dates: April 2018 – Present Address: 5578 Longley Lane

Reno, NV 89511

Phone: (775) 284-8650 Fax: (775) 284-8654

Institution: Pacific Spine & Pain Society
Title: Board of Directors, Member
Dates: May 2020 – September 2022

Institution: Pacific Spine & Pain Society

Title: Executive Board of Directors, Treasurer Dates: September 2021 – September 2023

Institution: Pacific Spine & Pain Society

Title: Executive Board of Directors, President Elect

Dates: September 2023 – Present

Academic Appointments

Institution: Michigan State University College of Osteopathic Medicine

Title: Clinical Assistant Professor
Dates: November 2010 – July 1, 2013

Institution: Touro University Nevada College of Osteopathic Medicine

Title: Clinical Assistant Professor

Dates: October 1, 2015 – October 1, 2019

Board Certification

American Board of Physical Medicine and Rehabilitation

Written Examination Passed 8/2006 Oral Examination Passed 5/2007

Re-Certification Examination Passed 2/2017

American Board of Physical Medicine and Rehabilitation, Pain Medicine

Written Examination Passed 9/2007

Re-Certification Examination Passed 9/2017

Education

Fellowship July, 2006 – June, 2007

Emory University Atlanta, GA Pain Fellowship

Section of Physical Medicine and Rehabilitation

Residency July, 2003 – June 2006

Mayo Clinic Graduate School of Medicine

Rochester, MN

Section of Physical Medicine and Rehabilitation

Internship July, 2002- June, 2003

Mount Clemens General Hospital

Mount Clemens, MI

Traditional Rotating Osteopathic Internship

Graduate August, 1998- May, 2002

Michigan State University College of Osteopathic Medicine

East Lansing, MI Degree: D.O.

Undergraduate August, 1993- May, 1997

University of Colorado at Boulder

Boulder, CO

Degree: B.A. Molecular, Cellular, Developmental Biology

High School August, 1989- May, 1993

Denver South High School

Denver, CO

Diploma

Honors and Awards

Professional

2023 Clinical Excellence Award by the American Society of Pain & Neuroscience (ASPN)

2021 Northern Nevada Innovator of the Year by Nevada Business Magazine

2013 Top 25 Physician in Northern Nevada by Nevada **Business Magazine**

2013 Achieved the JAHCO Gold Seal of Approval of Low Back Pain for Northern Nevada Medical Center while acting as the Medical Director of the Pain Center. We are the first and only Center in the nation to achieve this certification

2012 Top 25 Physician in Northern Nevada by Nevada **Business Magazine**

Residency

Resident Physician Council Liaison to PASSOR for the American Academy of Physical Medicine and Rehabilitation October 2004- October 2005

Graduate

Vice President of the Student Osteopathic Surgical Association August, 1999- August, 2000

Undergraduate Deans List, University of Colorado at Boulder, 1993-1997

Professional Organizations

American Medical Association, Fellow Member

American Academy of Physical Medicine and Rehabilitation,

Fellow Member

International Spine Interventional Society, Fellow Member North American Neuromodulation Society, Fellow Member Internal Neuromodulation Society, Fellow Member

Committees/Teaching

Anatomy Tutor for Medical Students (1st year) Fall 1999

Consulting Relationships

Abbott Medical/St Jude Medical October, 2013 – Present AIS January, 2019 – Present

Allergan February, 2012 – Present
Amgen November, 2017 – Present
Aurora Spine March, 2022 - Present
CornerLoc January, 2019 – Present
Ethos Laboratories June, 2021 - Present
Flowonix August, 2017 – Present
Lundbeck August, 2020 – Present
PainTEQ November 2023 – Present
Pajunk Medical November 2021 - Present
Saluda September, 2018 – Present
Spark Biomedical June, 2020 – Present
Vertos Medical January 2020 – Present
Vivex Biologics March 2021 - Present

Research Trials

Principal Investigator: Nuvectra Corp., Algovita Post-Market Clinical Investigational Plan: A prospective, multi-center, single arm, non-randomized observational, post-market study obtaining real-world clinical outcome data for the Algovita Spinal Cord Stimulation System when used, on-label, according to the applicable indications for use.

Principal Investigator: BIOTRONIK Inc., BENEFIT-02 Study: A prospective, multicenter, randomized, parallel-assignment, single-blind, interventional feasibility study investigation the effects of two study spinal cord stimulation (SCS) therapies on subjected reported pain and paresthesia perception.

Principal Investigator: Vertiflex Press Registry: Post-marketing Superion Spacer Registry for Evaluation of Superion Spacer.

Principal Investigator: Nevro Corp., PDN1: A Post-Market, Multicenter, Prospective, Randomized Clinical Trial Comparing 10 kHz Spinal Cord Stimulation (HF10TM Therapy) Combined with Conventional Medical Management to Conventional Medical Management Alone in the Treatment of Chronic, Intractable, Neuropathic Limb Pain

Principal Investigator: St Jude Medical, Inc./Abbott Medical, BurstDR™ micrOdosing stimuLation in De-novo patients (BOLD). Study to evaluate the efficacy of BurstDRTM microdosing stimulation in patients with chronic intractable back and/or leg pain with no prior history of SCS therapy.

Principal Investigator: St Jude Medical, Inc./Abbott Medical, TARGET: A Post-Approval Study to Evaluate Targeted SCS (DRG) Stimulation for the management of Moderate to Severe Chronic, Intractable, Pain of the Lower Limbs due to CRPS types I and II.

Principal Investigator: St Jude Medical, Inc./Abbott Medical, DELIVERY: Randomized, controlled, single blinded, prospective, multicenter study evaluating the effect of a multitherapy trial system on neurostimulation trial outcomes (DELIVERY PMS) study.

Principal Investigator: Abbott Medical, PROLONG: A prospective, Multicenter, Open-Label, Post-Market Study involving IPG revisions from non-BurstDRTM capable IPG's, to BurstDRTM capable, Abbott Medical IPG's due to loss of therapeutic effect in order to evaluate the efficacy of Abbott's neurostimulators in restoring therapeutic benefit from neuromodulation therapy.

Principal Investigator: Abbott Medical, REALITY: A post-market, prospective, openlabel, non-randomized, multi-center study conducted to gain an understanding of how Abbott's neurostimulation systems are being used in the real-world setting. It will serve the dual purpose of collecting long-term safety and effectiveness of these devices, and obtaining information about the different patient populations who are using them.

Principal Investigator: Abbott Medical, REALITY Sub-Study: External sensing for chronic pain therapy for patients with implanted spinal cord stimulation devices: Feasibility Study. The primary objective of this Sub-study is to determine the feasibility of measuring physiologic and behavioral markers derived from smartwatch recordings to characterize patient experience from baseline to 6 months post-implant.

Principal Investigator: Abbott Medical, DISTINCT: Dorsal spinal cord Stimulation versus medical management for the treatment of low back pain. This study will compare Spinal Cord Stimulation using BurstDRTM to conventional medical management (CMM) for patients with non-surgical chronic low back pain.

Principal Investigator: Abbott Medical, ROSTRA: Real-World Outcomes Study on Subjects Treated with Radiofrequency Ablation. An international, prospective, non-randomized, single-arm, multi-center, observational, post-market study. The objective of this study is to collect real-world safety and effectiveness data on Abbott's IonicRFTM Generator and compatible accessories.

Principal Investigator: Evolve Restorative Center, PROSPER: A Post-market, Randomized, Controlled, Prospective Study Evaluating Intrathecal Morphine (IT) versus Conventional Medical Management (CMM) in the Non-cancer, Refractory, Chronic Pain Population (PROSPER).

Principal Investigator: Clarity Research and Consulting, LLC., OPTIMA-G: Observational Study (Observing Pain Transdermal Treatments – Improving and Managing All GI Symptoms).

Principal Investigator: STIMPACT: A study determining if Pain Impact Scores (PIS) have a predictive value for the success of neurostimulation trials and outcomes, and to prove non-inferiority of the PIS against traditional measures of neurostimulation success.

Principal Investigator: Saluda Medical Americas., ECAP Study: A prospective, multicenter, single-arm study examining ECAP-controlled, closed-loop stimulation with the Evoke Spinal Cord Stimulator System to treat patients with chronic pain of the trunk and/or limbs. Saluda Medical's neurostimulation system will be used in the real-world setting. It

will serve the dual purpose of collecting long-term safety and effectiveness of these devices, and obtaining information about the different patient populations who are using them.

Principal Investigator: Aurora Spine., REFINE Study: A Prospective, observational, open label, non-randomized, multi-center study measuring functional outcomes in a novel interspinous fusion device in patients with low back pain. Aurora Spine's Aurora ZIP interspinous fusion device will be used in the real-world setting. It will serve the dual purpose of collecting long-term safety and effectiveness of the fusion device, and obtaining information about the different patient populations implanted.

Principal Investigator: SI-Bone., STACI Study: A prospective, multicenter, single arm, post-market study examining the treatment of sacroiliac joint dysfunction with the iFuse TORQ Implant System. SI-Bone's iFuse TORQ implants will be used in the real-world setting. It will serve the dual purpose of collecting long-term safety and effectiveness of the implants, and obtaining information about the different patient populations implanted.

Medical Monitor: CornerLoc., SPARTAN Study: A multicenter, prospective, post-market surveillance study examining the treatment of sacroiliac joint disease using the TransLoc 3D Sacroiliac Joint Fusion System. CornerLoc's fusion device will be used in the real-world setting. It will serve the dual purpose of collecting long-term safety and effectiveness of the fusion device, and obtaining information about the different patient populations implanted.

Principal Investigator: Nevada Advanced Pain Specialists., RETURN Study: An unblinded, non-randomized, prospective, single center study examining the effect of the Invisible Trial System BurstDR spinal cord stimulation on pain and function in patients with chronic intractable pain of the lower limbs. Abbott's neurostimulation system will be used in the real-world setting. It will serve the dual purpose of collecting long-term safety and effectiveness of these devices, and obtaining information about the different patient populations who are using them.

Publications

Steve J.Wisniewski, MD^a., JaySmith, MD^b., **Denis G.Patterson,DO**,^c., Stephen W.Carmichael, PhD^d., WojciechPawlina, MD^e. **Ultrasound-guided versus Nonguided Tibiotalar Joint and Sinus Tarsi Injections: A Cadaveric Study.** PM&R Vol. 2, Issue 4, April 2010, Pages 277-281

Deer, T., Pope, J., Lamer, T., Grider, J., Provenzano, D., Lubenow, T., FitzGerald, J., Hunter, C., Falowski, S., Sayed, D. Baranidharan, G., Patel, N., Davis, T., Green, A., Pajuelo, A., Epstein, L., Harned, M., Liem, L., Christo, P., MD, Chakravarthy, K., Gilmore, C., Huygen, F., Lee, E., Metha, P., Nijhuis, H., **Patterson, D.**, Petersen, E., Pilitsis, J., Rowe, J., Rupert, M., Skaribas, I., Sweet, J., Verrills, P., Wilson, D., Levy, R., Mekhail, N..**The Neuromodulation Appropriateness Consensus Committee on Best Practices for Dorsal Root Ganglion Stimulation**. *Neuromodulation: Technology at the Neural Interface* Vol. (Issue), pages, 2018

Deer, T., **Patterson, D.**, Baksh, J., Pope, J., Mehta, P., Raza, A., Agnesi, F., Chakravarthy, K.. **Novel Intermittent Dosing Burst Paradigm in Spinal Cord Stimulation.** *Neuromodulation: Technology at the Neural Interface* Vol 23 (Issue 2), pages, 2020

Corey W. Hunter, MD., Jonathan Carlson, MD., Ajax Yang, MD., **Denis Patterson**, **DO**., Ben Lowry, MD., Pankaj Mehta, MD., Jeffery Rowe, MD., and Timothy Deer, MD. **BURST(able): A Retrospective, Multicenter Study Examining the Impact of Spinal Cord Stimulation with Burst on Pain and Opioid Consumption in the Setting of Salvage Treatment and "Upgrade". Pain Physician 2020; 23: E643-E658**

Steven Falowski, MD., Dawood Sayed, MD., Jason Pope, MD., **Denis Patterson, DO**., Michael Fishman, MD., Mayank Gupta, MD., Pankaj Mehta, MD. **A Review and Algorithm in the Diagnosis and Treatment of Sacroiliac Joint Pain.** Journal of Pain Research 2020; 13: 3337–3348

Erika A. Petersen, MD; Thomas G. Stauss, MD; James A. Scowcroft, MD; Elizabeth S. Brooks, PhD; Judith L. White, MD; Shawn M. Sills, MD; Kasra Amirdelfan, MD; Maged N. Guirguis, MD; Jijun Xu, MD, PhD; Cong Yu, MD; Ali Nairizi, MD; Denis G. Patterson, DO; Kostandinos C. Tsoulfas, MD; Michael J. Creamer, DO; Vincent Galan, MD; Richard H. Bundschu, MD; Christopher A. Paul, MD; Neel D. Mehta, MD; Heejung Choi, MD; Dawood Sayed, MD; Shivanand P. Lad, MD, PhD; David J. DiBenedetto, MD; Khalid A. Sethi, MD; Johnathan H. Goree, MD; Matthew T. Bennett, MD; Nathan J. Harrison, MD; Atef F. Israel, MD; Paul Chang, MD; Paul W. Wu, MD; Gennady Gekht, MD; Charles E. Argoff, MD; Christian E. Nasr, MD; Rod S. Taylor, PhD; Jeyakumar Subbaroyan, PhD; Bradford E. Gliner, MS; David L. Caraway, MD, PhD; Nagy A. Mekhail, MD, PhD. Effect of High-frequency (10-kHz) Spinal Cord Stimulation in Patients With Painful Diabetic Neuropathy: A Randomized Clinical Trial. Jamaneurol.2021.0538

Deer T., Wilson D., Schultz D., Falowski S., Tavel E., Moore G., Heros R., Patterson D., Fahey M., Capobianco R., Anitescu M. 2021. Ultra-Low Energy Cycled Burst Spinal Cord Stimulation Yields Robust Outcomes in Pain, Function, and Affective Domains: A Subanalysis From Two Prospective, Multicenter, International Clinical Trials. Neuromodulation 2021.

Lee DW, Patterson DG, Sayed D. Review of Current Evidence for Minimally Invasive Posterior Sacroiliac Joint Fusion. Int J Spine Surg. 2021 (3):514-524.

Ajay Antony, Miguel Attias, Nomen Azeem, Douglas P. Beall, MD., Jordan E. Brasuell, BS., Alvro E. Bravo, MD., Krishnan Chakravarthy, Pooja Chopra, Jeffery Ciccone, Timothy Davis, Timothy R. Deer, James Deering, John DiMuro, Dana Dunleavy, MD., Alyson Engle, Alexander Escobar, Michael Esposito, Andrew W. Favre, BS., Stanely Golovac, Priyanka Ghosh, Anthony Giuffrida, Jonathan M. Hagedorn, Michael Hanes, Robert Heros, MD., Navdeep Jassal, Jack W. Jennings, MD, Phd., Jeonardo Kapural, Majid Khan, MD., Ali A. Khan, BS., Brooks M. Koenig, BS., Lisa R. Kroopf, Eric Lee, Mark Malinowski, Amela Minerali, Ramana Naidu, Shachi Patel, **Dennis G. Patterson**, Kailash Pendem, Jay Shah, Sean M. Tutton, MD., Farzan Vahedifard, Ali Valimahomed, Jackie Weisbein, Edward S. Yoon, MD. **Essentials of Radiofrequency Ablation of the Spine and Joints; Part III, Chapter 15, Peripheral Nerve Radiofrequency Ablation** 2021; 225-240.

Erika A. Petersen, Thomas G. Stauss, James a. Scowcroft, Elizabeth S. Brooks, Judith L. White, Shawn M. Sills, Kasra Amirdelfan, Maged N. Guirguis, Jijun Xu, Cong Yu, Ali Nairizi, Denis G. Patterson, Kostandinos C. Tsoulfas, Michael J. Creamer, Vincent Galan, Richard H. Bundschu, Neel D. Mehta, Dawood Sayed, Shivanand P. Lad, David J. DiBenedetto, Khalid A. Sethi, Johnathan H. Goree, Matthew T. Bennett, Nathan J. Harrison, Atef F. Israel, Paul Chang, Paul W. Wu, Charles E. Argoff, Christian E. Nasr, Rod S. Taylor, David L. Caraway, Nagy A. Mekhail. Durability of High-Frequency 10-kHz Spinal Cord Stimulation for Patients With Painful Diabetic Neuropathy Refractory to Conventional Treatments: 12-Month Results From a Randomized Controlled Trial. Diabetes Care 2022;45(1):e3-e6.

Petersen EA, Stauss TG, Scowcroft JA, Brooks ES, White JL, Sills SM, Amirdelfan K, Guirguis MN, Xu J, Yu C, Nairizi A, Patterson DG, Tsoulfas KC, Creamer MJ, Galan V, Bundschu RH, Mehta ND, Sayed D, Lad SP, DiBenedetto DJ, Sethi KA, Goree JH, Bennett MT, Harrison NJ, Israel AF, Chang P, Wu PW, Argoff CE, Nasr CE, Taylor RS, Caraway DL, Mekhail NA (2022). High-Frequency 10-kHz Spinal Cord Stimulation Improves Health-Related Quality of Life in Patients with Refractory Painful Diabetic Neuropathy: 12-Month Results from a Randomized Controlled Trial. Mayo Clin Proc Innov Qual Outcomes 2022; 6(4):347-360.

Jason E. Pope, Navdeep Jassal, Dawood Sayed, **Denis Patterson**, Gladstone McDowell, Anjum Bux, Phillip Lim, Eric Chang, Ali Nairizi, Samuel Grodofsky & Timothy R Deer **A post-market, randomized, controlled, prospective study evaluating intrathecal pain medication versus conventional medical management in the non-cancer, refractory, chronic pain population (PROSPER), Expert Review of Medical Devices, 2022; 19:11, 895-904.**

Timothy R. Deer MD, Marc A. Russo MBBS, DA (UK), Jay S. Grider DO, PhD, MBA, Jason Pope MD, Philippe Rigoard MD, PhD, Jonathan M. Hagedorn MD, Ramana Naidu MD, **Denis G. Patterson DO**, Derron Wilson MD, Timothy R. Lubenow MD, Asokumar

Buvanendran MD, Samir J. Sheth MD, Rany Abdallah MD, PhD, N. Nick Knezevic MD, PhD, Stefan Schu MD, Harold Nijhuis MD, Pankaj Mehta MD, Ricardo Vallejo MD, PhD, Jay M. Shah MD, Michael E. Harned MD, Navdeep Jassal MD, Jose Manuel Gonzalez PhD, MD, Thomas P. Pittelkow DO, MPH, Shachi Patel MD, Stana Bojanic MB, BS, Kenneth Chapman MD, Natalie Strand MD, Alexander L. Green MD, BSc, MBBS, Peter Pahapill MD, PhD, Alessandra Dario MD, Fabian Piedimonte MD, Robert M. Levy MD, PhD. The Neurostimulation Appropriateness Consensus Committee (NACC): Recommendations for Surgical Technique for Spinal Cord Stimulation. Neuromodulation Volume 25, Issue 1, 2022; Pages 1-34.

Huygen F, Hagedorn JM, Falowski S, Schultz D, Vesper J, Heros RD, **Patterson DG**, Dehghan S, Ross E, Kyani A, Mansouri MB, Kallewaard JW. **Core patient-reported outcome measures for chronic pain patients treated with spinal cord stimulation or dorsal root ganglia stimulation.** Health Qual Life Outcomes. 2023; 21;77.

Kapural L., **Patterson D.G.**, Li S., Hatheway J., Hunter C., Rosen S., Fishman M., Gupta M., Sayed D., Christopher A., Burgher A., McJunkin T., Ross E.L., Provenzano D., Amirdelfan K. 2023. **Multiphase Spinal Cord Stimulation in Participants With Chronic Back or Leg Pain: Results of the BENEFIT-02 Randomized Clinical Trial. Neuromodulation 2023; -: 1–12**

Deer T., Gilligan C., Falowski S., Desai M., Pilitsis J., Jameson J., Moeschler S., Heros R., Tavel E., Christopher A., **Patterson D.**, Wahezi S., Weisbein J., Antony A., Funk R., Ibrahim M., Lim C., Wilson D., Fishell M., Scarfo K., Dickerson D., Braun E., Buchanan P., Levy R.M., Miller N., Duncan J., Xu J., Candido K., Kreiner S., Fahey M.E., Yue J. 2023. **Treatment of Refractory Low Back Pain Using Passive Recharge Burst in Patients Without Options for Corrective Surgery: Findings and Results From the DISTINCT Study, a Prospective Randomized Multicenter Controlled Trial**. Neuromodulation 2023; -: 1–13.

Denis G. Patterson, Derron Wilson, Michael A. Fishman, Gregory Moore, Ioannis Skaribas, Robert Heros, Soroush Dehghan, Erika Ross, Anahita Kyani. **Objective** wearbale measures correlate with self-reported chronic pain levels in people with spinal cord stimulation systems. NPJ Digital Medicine 2023; 1-9.

Erika A. Petersen, Thomas G. Stauss, James A. Scowcroft, Michael J. Jaasma, Elizabeth S. Brooks, Deborah R. Edgar, Judith L. White, Shawn M. Sills, Kasra Amirdelfan, Maged N. Guirguisi, Jijun Xu, Cong Yu, Ali Nairizi, **Denis G. Patterson**, Kostandinos C. Tsoulfas, Michael J. Creamer, Vincent Galan, Richard H. Bundschu, Neel D. Mehta, Dawood Sayed, Shivanand P. Lad, David J. DiBenedetto, Khalid A. Sethi, Johnathan H. Goree, Matthew T. Bennett, Nathan J. Harrison, Atef F. Israel, Paul Chang, Paul W. Wu, Charles E. Argoff, Christian E. Nasr, Rod S. Taylor, David L. Caraway, Nagy A. Mekhail. **Long-term efficacy of high-frequency (10 kHz) spinal cord stimulation for the treatment of painful diabetic neuropathy: 24-Month results of a randomized controlled trial.** Diabetes Research and Clinical Practice 203 (2023) 110865.

Robert Heros, **Denis Patterson**, Frank Huygen, Ioannis Skaribas, David Schultz, Derron Wilson, Michael Fishman, Steven Falowski, Gregory Moore, Jan Willem Kallewaard, Soroush Dehghan, Anahita Kyani and Misagh Mansouri. **Objective wearable measures and subjective questionnaires for predicting response to neurostimulation in people with chronic pain.** Bioelectonic Medicine (2023)9:13.

Steven M Falowski, Louis J Raso, Vipul Mangal, Ali Nairizi, **Denis G Patterson**, Michael D Danko, Rafael Justiz, Rainer S Vogel, Sebastian Koga, Yousseff Josephson, Jason E Pope, Oluwatodimu Richard Raji. **Early Functional Outcomes in Low Back Pain Subjects with a Novel Interspinous Fusion Device: REFINE Study 6-Month Results.** Journal of Pain Research 2023:16 4113–4126.

Conference Abstracts/Presentations/Posters

Petersen EA, Stauss TG, Scowcroft JA, Brooks ES, White JL, Sills SM, Amirdelfan K, Guirguis MN, Xu J, Yu C, Nairizi A, Patterson DG, Galan V, Bundschu RH, Mehta ND, Sayed D, Lad SP, DiBenedetto DJ, Sethi KA, Wu PW, Argoff CE, Nasr CE, Taylor RS, Caraway DL, Mekhail NA. 10-kHz Spinal Cord Stimulation is a Durable Treatment for Painful Diabetic Neuropathy: Long-Term Multicenter Randomized Controlled Trial Results. International Neuromodulation Society 15th World Congress, Barcelona, Spain. 2022.

Petersen EA, Stauss TG, Scowcroft JA, Brooks ES, White JL, Sills SM, Amirdelfan K, Guirguis MN, Xu J, Yu C, Nairizi A, **Patterson DG**, Galan V, Bundschu RH, Mehta ND, Sayed D, Lad SP, DiBenedetto DJ, Sethi KA, Wu PW, Argoff CE, Nasr CE, Taylor RS, Caraway DL, Mekhail NA. **24-Month Results for 10kHz Spinal Cord Stimulation** (SCS) in **Treating Painful Diabetic Neuropathy (PDN)**. American Diabetes Association 82nd Scientific Sessions, New Orleans, Louisiana. 2022.

Petersen EA, Stauss TG, Scowcroft JA, Brooks ES, White JL, Sills SM, Amirdelfan K, Guirguis MN, Xu J, Yu C, Nairizi A, Patterson DG, Galan V, Bundschu RH, Mehta ND, Sayed D, Lad SP, DiBenedetto DJ, Sethi KA, Wu PW, Argoff CE, Nasr CE, Taylor RS, Caraway DL, Mekhail NA. Evidence of durable reduction in pain and sensory symptoms of diabetic neuropathy with 10khz spinal cord stimulation: 24-month outcomes from an RCT. Fourth Annual American Society of Pain & Neuroscience Conference, Miami Beach, Florida. 2022.

Petersen EA, Stauss TG, Scowcroft JA, White JL, Sills SM, Amirdelfan K, Guirguis MN, Xu J, Yu C, Nairizi A, Patterson DG, Galan V, Bundschu RH, Mehta ND, Sayed D, Lad SP, DiBenedetto DJ, Sethi KA, Wu PW, Argoff CE, Nasr CE, Taylor RS, Caraway DL, Mekhail NA. Durability of 10-kHz Spinal Cord Stimulation for Painful Diabetic Neuropathy: 18-Month Multicenter Randomized Controlled Trial Results. American Podiatric Medical Association Annual Scientific Meeting, Orlando, Florida. 2022.

Petersen EA, Levy BL, Stauss TG, Scowcroft JA, Jaasma MJ, White JL, Sills SM, Amirdelfan K, Guirguis MN, Xu J, Yu C, Nairizi A, Patterson DG, Galan V, Bundschu RH, Mehta ND, Sayed D, Lad SP, DiBenedetto DJ, Sethi KA, Wu PW, Argoff CE, Nasr CE, Taylor RS, Caraway DL, Mekhail NA. High Frequency (10 kHz) Spinal Cord Stimulation Provides Durable Symptom Relief for Patients with Painful Diabetic Neuropathy. ADCES22, Association of Diabetes Care & Education Specialists, Baltimore, Maryland. 2022.

Petersen EA, Stauss TG, Scowcroft JA, Jaasma MJ, White JL, Sills SM, Amirdelfan K, Guirguis MN, Xu J, Yu C, Nairizi A, Patterson DG, Galan V, Bundschu RH, Mehta ND, Sayed D, Lad SP, DiBenedetto DJ, Creamer MJ, Wu PW, Argoff CE, Nasr CE, Taylor RS, Caraway DL, Mekhail NA. Treatment of Painful Diabetic Neuropathy (PDN): High-Frequency (10 kHz) Spinal Cord Stimulation (SCS) Provides Significant, Durable Pain Relief for PDN Patients. PAINWeek Conference 2022, Las Vegas, Nevada.

Petersen EA, Stauss TG, Scowcroft JA, White JL, Sills SM, Amirdelfan K, Guirguis MN, Xu J, Yu C, Nairizi A, Patterson DG, Galan V, Taylor RS, Caraway DL, Mekhail NA. Evidence of Significant Reduction in Pain and Sensory Symptoms of Diabetic Neuropathy with 10 kHz Spinal Cord Stimulation: 24-month RCT Outcomes. European Association for the Study of Diabetes Annual Meeting, Stockholm, Sweden. 2022.

Petersen EA, Stauss TG, Scowcroft JA, Jaasma MJ, White JL, Sills SM, Amirdelfan K, Guirguis MN, Xu J, Yu C, Nairizi A, Patterson DG, Galan V, Bundschu RH, Mehta ND, Sayed D, Lad SP, DiBenedetto DJ, Sethi KA, Wu PW, Argoff CE, Nasr CE, Taylor RS, Caraway DL, Mekhail NA. 10 kHz Spinal Cord Stimulation Provides Significant, Durable Symptom Relief for Patients with Painful Diabetic Neuropathy: 24-Month Results. 22nd Diabetic Foot Conference (DFCon), Los Angeles, California. 2022.

Presentations

Ultrasound Guided Versus Non-Guided Tibiotalar and Subtalar Joint Injections: A Cadaveric Study. Presented at the American Academy of Physical Medicine and Rehabilitation Annual Assembly Meeting 2006

"The Pain Treatment Algorithm and Neuromodulation"
St Jude Medical National Neuromodulation 101 Fellows Program 2013
Chicago, IL
October 19 – 20, 2013

"Risk Mitigation and Complications" St Jude Medical National Neuromodulation 101 Fellows Program 2013 Chicago, IL October 19 - 20, 2013

"Healthcare and Social Media"

St Jude Medical National Neuromodulation 201 Fellows Program 2014 Dallas, TX

February 22 - 23, 2014

"Ethics in Pain Management"

Panel Speaker

St Jude Medical National Neuromodulation 201 Fellows Program 2014 Dallas, TX

February 22 - 23, 2014

"Understanding the Pain Market and SCS Positioning"

St Jude Medical National Neuromodulation 201 Fellows Program 2014 Dallas, TX

February 22 - 23, 2014

"My Most Challenging and Rewarding Case"

Panel Speaker

St Jude Medical National Neuromodulation 401 Fellows Program 2014 San Juan, Puerto Rico

June 19, 2014

"Managing Patient Expectations"

Panel Speaker

St Jude Medical National Neuromodulation 401 Fellows Program 2014 San Juan, Puerto Rico

June 19, 2014

"Ethics and Re-imbursement of SCS"

Panel Speaker

St Jude Medical National Neuromodulation 401 Fellows Program 2014 San Juan, Puerto Rico

June 19, 2014

"Your First Implant"

Panel Speaker

St Jude Medical National Neuromodulation 401 Fellows Program 2014 San Juan, Puerto Rico

June 19, 2014

"How to Navigate Your First Year in Practice"

Panel Speaker

St Jude Medical National Neuromodulation 401 Fellows Program 2014 San Juan, Puerto Rico

June 19, 2014

"Applications in Knee Supra-scapular, Obturator, and Occipital Radiofrequency Therapies" New Applications in Radiofrequency Therapy St Jude Medical Las Vegas, NV December 13, 2014

Live Presentation and Patient Injection for Upper Limb Spasticity Allergan 2015 Neurosciences National Sales Meeting Las Vegas, NV February 26, 2015

St Jude Medical Product Development Lab St Jude Medical Plano, TX April 26, 2015

"Radiofrequency Applications for Peripheral Nerves" St Jude Medical Riverside, CA June 16, 2015

Upper Limb Spasticity Botox Live Program
"Upper Limb Spasticity: Diagnostic Techniques and Implementing
Botox Treatment"
Allergan Neurosciences
Reno, NV
June 29, 2015

Emerging Leader Summit Medtronic, Inc Miami, FL September 11 - 13, 2015

Upper Limb Spasticity & Cervical Dystonia Botox Live Program "Upper Limb Spasticity & Cervical Dystonia: Diagnostic Techniques and Implementing Botox Treatment"

Allergan Neurosciences
Los Gatos, CA
September 24, 2015

Upper Limb Spasticity & Cervical Dystonia Botox Live Program "Upper Limb Spasticity & Cervical Dystonia: Diagnostic Techniques and Implementing Botox Treatment"

Allergan Neurosciences Fresno, CA December 9, 2015

Allergan 2016 Neurosciences National Sales Meeting Cedar Creek, TX February 23 - 24, 2016

Fundamentals of Implantable Pain Therapies - Faculty
"Transition to Practice"
Medtronic, Inc
Phoenix, AZ
February 28, 2016

Peripheral Nerve Stimulation/Ablation Ad Board DRG Investigational Approaches Medtronic, Inc Sydney, Australia March 18 – 19, 2016

DRG Faculty Training: Great Expectations 2016 St Jude Medical Dallas, TX April 1 – 3, 2016

Presentation on Pain Management Nevada State Medical Association Reno, NV April 12, 2016

SJM DRG Education Course: Great Expectations 2016 - Faculty St Jude Medical Dallas, TX May 21 – 22, 2016

Pain Fellows Leaders' Summit - Faculty Medtronic, Inc Minneapolis, MN June 3, 2016

St Jude Medical SCS, RF, and DRG Physician Assistant and Nurse Practitioner Educational Symposium – Faculty St Jude Medical Phoenix, AZ June 18, 2016 Axium Neurostimulation System Education Program – Faculty St Jude Medical Dallas, TX July 16 - 17, 2016

Opioids: What You Should Know About Pain Management and Substance Abuse - Presenter Nevada State Medical Association Reno, NV August 9, 2016

Fundamentals of Implantable Pain Therapies - Faculty Medtronic, Inc Long Beach, CA September $10-11,\,2016$

Botox for Chronic Migraine Live Program Allergan Neurosciences Las Vegas, NV September 29, 2016

Opioids: What You Should Know About Pain Management and Substance Abuse - Presenter Washoe County Medical Society Reno, NV October 18, 2016

Spinal Cord Stimulation Proctorship Abbott Medical Reno, NV December 9, 2016

Botox for Chronic Migraine Live Program Allergan Neurosciences Reno, NV December 15, 2016

Botox for Chronic Migraine Live Program Allergan Neurosciences Reno, NV December 20, 2016

Opioids: What You Should Know About Pain Management and Substance Abuse - Presenter Carson Douglas Medical Society Carson City, NV January 25, 2017

Spinal Cord Stimulation Proctorship Abbott Medical Reno, NV February 10, 2017

Axium Neurostimulation System Physician Training: A Case Based
Learning Program – Faculty
Abbott Medical
Dallas, TX
February 11 – 12, 2017

Dorsal Root Ganglion Stimulation and Chronic Neuropathic Joint Pain –
Presenter
Barton Medical Center
South Lake Tahoe, CA
February 21, 2017

What is Pain Management - Presenter Nevada Primary Care Association Reno, NV February 27, 2017

Botox for Chronic Migraine Live Program Allergan Neurosciences Las Vegas, NV April 19, 2017

Botox for Chronic Migraine Live Program Allergan Neurosciences Las Vegas, NV April 20, 2017

American Society of Interventional Pain Physicians
Topics In Neuromodulation Presentation – BurstDR Stimulation
Las Vegas, NV
April 21, 2017

Axium Neurostimulation System Education Program – Faculty Abbott Medical Dallas, TX May 6 – 7, 2017

"Right Therapy for the Right Patient" Abbott Velocity Dinner Program Sacramento, CA May 18, 2017

Axium Neurostimulation System Education Program – Faculty Abbott Medical Dallas, TX June $10-11,\,2017$

Spinal Radiofrequency Ablation Proctorship Abbott Medical Reno, NV July 17, 2017

Spinal Radiofrequency Ablation Proctorship Abbott Medical Reno, NV July 14, 2017

Axium Neurostimulation System Education Program – Faculty Abbott Medical Dallas, TX July 16 – 17, 2017

Flowonix Advisory Board Meeting Flowonix Phoenix, AZ August 4 – 6, 2017

Axium Neurostimulation System Education Program – Faculty Abbott Medical Dallas, TX August 12 - 13, 2017

Spinal Radiofrequency Ablation Proctorship Abbott Medical Reno, NV September 15, 2017

"Right Therapy for the Right Patient"
Alliance Interventional Medical Summit 2017
Orlando, FL
November 4, 2017

Superion Proctor Training - Faculty Vertiflex Miami, FL

January 20 – 21, 2018

Superion Proctor Training - Faculty Vertiflex Dallas, TX February 10 - 11, 2018

Botox for Chronic Migraine Live Program Allergan Neurosciences Las Vegas, NV March 13, 2017

Spinal Cord Stimulation Proctorship Abbott Medical Reno, NV November 10, 2017

Radiofrequency Ablation and Joint Pain - Presenter Barton Medical Center South Lake Tahoe, CA November 14, 2017

Spinal Cord Stimulation and Chronic Neuropathic Pain - Presenter Nevada Association of Nurse Practitioners Association Reno, NV November 14, 2017

Dorsal Root Ganglion Stimulation and Chronic Neuropathic Pain –
Presenter
Nevada Association of Nurse Practitioners Association
Reno, NV
February 13, 2018

 $BOTOX^{\circledR}$ for Upper & Lower Limb Spasticity - Proctorship Allergan Neurosciences Reno, NV March 14, 2018

Superion Proctor Training - Faculty Vertiflex Dallas, TX March 17 - 18, 2018

Spinal Cord Stimulation Proctorship Abbott Medical Reno, NV March 23, 2018

BOTOX® for Upper & Lower Limb Spasticity - Proctorship Allergan Neurosciences Honolulu, HI March 28, 2018

BOTOX® for Chronic Migraine - Proctorship Allergan Neurosciences Lihue, HI March 30, 2018

Non-opioid Chronic Pain Treatments Washoe County Medical Society Presentation Reno, NV April 17, 2018

BOTOX® for Chronic Migraine - Proctorship Allergan Neurosciences Napa, CA May 23, 2018

Dorsal Root Ganglion Stimulation and Chronic Neuropathic Pain –
Presenter
Abbott Medical
Sacramento, CA
May 23, 2018

"Radiofrequency of the Spine" Panel Speaker West Virginia Society of Interventional Pain Physicians, Pain 2018 Miami, FL June 1, 2018

"Discogenic Pain – What is the Best Solution" Panel Speaker West Virginia Society of Interventional Pain Physicians, Pain 2018 Miami, FL June 2, 2018

Axium Neurostimulation System Education Program – Faculty Abbott Medical Long Beach, CA June 9 - 10, 2018

Axium Neurostimulation System Education Program – Faculty

Abbott Medical Dallas, TX June 23 - 24, 2018

"Right Therapy for the Right Patient" Abbott Medical San Diego, CA June 28, 2018

Doral Root and Spinal Cord Stimulation Proctorship Abbott Medical Reno, NV July 27, 2018

"Right Therapy for the Right Patient" Alliance Interventional Medical Summit 2018 Orlando, FL July 28, 2018

Radiofrequency Ablation and Spinal Cord Stimulation Proctorship Abbott Medical Reno, NV August 10, 2018

"Aim at the CGRP Receptor (CGRP-R) in Migraine Prevention" Amgen Pharmaceuticals Roseville, CA September 6, 2018

Essentials in Endovenous Treatment of Superficial Venous Disease Medtronic Chicago, IL September $15-16,\,2018$

"Right Therapy for the Right Patient" Abbott Medical Phoenix, AZ September 28, 2018

"12 Steps for Proper Opioid Prescribing" Echo Project – University Nevada Reno Reno, NV October 11, 2018

Radiofrequency Ablation, Dorsal Root and Spinal Cord Stimulation Proctorship

Abbott Medical Reno, NV October 12, 2018

Axium Neurostimulation System Education Program – Faculty Abbott Medical San Francisco, CA October 13 - 14, 2018

"Aim at the CGRP Receptor (CGRP-R) in Migraine Prevention" Amgen Pharmaceuticals Reno, NV October 24, 2018

Radiofrequency Ablation, Dorsal Root and Spinal Cord Stimulation Proctorship Abbott Medical Reno, NV October 26, 2018

Pain reduction and functional improvement after Posterior Approach SI Stabilization and Fusion with specialized graft: A Case Series Poster Presentation CASIPP 9th Annual Conference Santa Barbara, CA November 2 - 4, 2018

"Increasing Your Presence and Marketing Pearls" CASIPP 9th Annual Conference Santa Barbara, CA
November 4, 2018

"To Burn Or Not To Burn: RFA vs Neurostimulation Options" El Paso Pain Society Meeting - Abbott Medical El Paso, TX November 15, 2018

"Uniquely Investing in Advancing Neuromodulation" Nevada Association of Nurse Practitioners Association Reno, NV December 11, 2018

ProclaimTM DRG Neurostimulation System Education Program – Faculty
Abbott Medical
Salt Lake City, UT

January 12, 2019

Techniques in Neuromodulation: Percutaneous SCS and RF Proctorship Abbott Medical Reno, NV January 24 – 25, 2019

"Neurstimulation"
Advanced Practitioner Course on Neuromodulation - Faculty
Abbott Medical
Phoenix, AZ
February 2, 2019

"Redefining Chronic Pain Relief"
Advanced Practitioner Course on Neuromodulation - Faculty
Abbott Medical
Phoenix, AZ
February 2, 2019

"The Latest Data for Aimovig" Amgen Pharmaceuticals Sacramento, CA February 5, 2019

"Role of Spinal Cord Stimulation and Target Drug Delivery for Treatment of Chronic Pain" University of Reno Nevada – Echo Project Reno, NV February 20, 2019

Posterior Sacroiliac Joint Fusion Program - Faculty CornerLoc Medical Spokane, WA February 24, 2019

Posterior Sacroiliac Joint Fusion Program - Faculty CornerLoc Medical Orange County, CA March 16, 2019

"HF10 Spinal Cord Stimulation Therapy: relief for painful diabetic peripheral neuropathy"

Northern Nevada Medical Center

April 2, 2019

"Emergency Room Opioid Protocols" University of Reno Nevada – Echo Project Reno, NV May 1. 2019

"SCS and DRG Technology and Clinical Overview" Abbott Medical Anchorage, AK May 6, 2019

"Dorsal Root Ganglion Stimulation and Chronic Neuropathic Joint Pain" Abbott Medical Anchorage Fracture and Orthopedic Anchorage, AK May 7, 2019

Proclaim[™] DRG Neurostimulation System – Faculty Abbott Medical Dallas, TX May 11, 2019

"CDC Guidelines For Prescribing Opioids For Chronic Pain" University of Reno Nevada – Echo Project Reno, NV May 15. 2019

"The Latest Data for Aimovig" Amgen Pharmaceuticals Hood River, OR May 16, 2019

"The Latest Data for Aimovig" Amgen Pharmaceuticals Corvalis, OR May 16, 2019

"12 Step Program for Opioid Prescribing" University of Reno Nevada – Echo Project Reno, NV June 5. 2019

Minimally Invasive Spine & MSK Neurotomy Workshop – Faculty California Society of Interventional Pain Physicians San Francisco, CA June 8, 2019

Techniques in Neuromodulation: Percutaneous SCS and DRG Proctorship Abbott Medical Reno, NV June 14, 2019

"The Latest Data for Aimovig" Amgen Pharmaceuticals Sacramento, CA June 26, 2019

"Treatment of the virgin back with neuromodulation" - Panel Presenter American Society of Pain and Neurosciences (ASPN) and WVSIPP Meeting Miami Beach, FL July 26, 2019

"Treatment of the virgin back with neuromodulation"
American Society of Pain and Neurosciences (ASPN) and WVSIPP
Meeting
Miami Beach, FL
July 26, 2019

"SI Joint Fusion Experiences with CornerLoc"
American Society of Pain and Neurosciences (ASPN) and WVSIPP
Meeting
CornerLoc Medical
Miami Beach, FL
July 27, 2019

"Spinal Cord Stimulation Debates: #1) Anatomical vs. Parathesia Mapping #2) Awake vs. Asleep #3) Placement, Neuromonitoring And Waveform Antibiotics

American Society of Pain and Neurosciences (ASPN) and WVSIPP Meeting Miami Beach, FL

Miami Beach, I July 27, 2019

Chronic Migraine Local Live: A Foundational Chronic Migraine Treatment
Allergan Neurosciences
Chico, CA
August 7, 2019

Foundations in Neuromodulation for the Pain Management Fellow -

Faculty Abbott Medical Dallas, TX August 11, 2019

"Pain Management in a General Medicine Setting" – Panel Presenter Nevada Opioid Abuse Prevention Summit Las Vegas, Nevada August 14, 2019

Chronic Migraine Proctorship: A Foundational Chronic Migraine Treatment
Allergan Neurosciences
Hidden Valley Lake, CA
September 10, 2019

"Pain Management Tools: Tools for your patients and your practice" Nevada Board of Medicine Best Practice Guidelines Reno, NV Sepember 22, 2019

"What is Pain Management: Appropriate Treatment for Pain" Nevada Board of Medicine Best Practice Guidelines Reno, NV Sepember 22, 2019

DRG New Implanter Training – Faculty Abbott Medical Dallas, TX September 28, 2019

Chronic Migraine Preceptorship: A Foundational Chronic Migraine Treatment
Allergan Neurosciences
Reno, NV
October 14, 2019

"Peristalic versus Dual Valve Gated Technology" Flowonix Medical Chicago, IL October 18. 2019

Flowonix Cadaver Lab – Faculty Flowonix Medical Chicago, IL October 19, 2019 "Spinal Cord Stimulation and Limb Salvage" University of Nevada October 23, 2019

Cadaver Workshop – Faculty Dorsal Root Ganglion Stimulation California Society of Interventional Pain Physicians Squaw Valley, Lake Tahoe, California October 25, 2019

Advanced Practice Provider Course – Faculty California Society of Interventional Pain Physicians Squaw Valley, Lake Tahoe, California October 25, 2019

"Advanced Interventional Techniques: Choosing the appropriate Procedure" California Society of Interventional Pain Physicains Squaw Valley, Lake Tahoe, California October 25, 2019

"Lumbar Sinal Stensosis with Neurogenic Claudication" California Society of Interventional Pain Physicains Squaw Valley, Lake Tahoe, California October 26, 2019

"Increasing Your Presence and Marketing Pearls" CASIPP 10th Annual Conference Squaw Valley, Lake Tahoe, California October 27, 2019

"The Latest Data for Aimovig" Amgen Medical Redding, CA October 28, 2019

"CornerLoc: SI Joint Fusion for Pain Management" AZSIPP/ASP Fall Dinner Meeting Phoenix, AZ October 29, 2019

Clinical Partners in Research Meeting Abbott Medical Phoenix, AZ November 2, 2019 Posterior Sacroiliac Joint Fusion Program - Faculty CornerLoc Medical Denver, CO November 3, 2019

"Spinal Cord Stimulation Therapy"

Topic in Neuromodulation

American Society of Regional Anesthesia and Pain Medicine Meeting

Abbott Medical

New Orleans. LA

November 15, 2019

Posterior Sacroiliac Joint Fusion Program - Faculty

CornerLoc Medical

Las Vegas, NV

November 22, 2019

Chronic Migraine Preceptorship: A Foundational Chronic Migraine

Treatment

Allergan Neurosciences

San Leandro, CA

December 3, 2019

"Peristalic versus Dual Valve Gated Technology"

American Society of Pain and Neurosciences Cadaver Lab 2019

Flowonix Medical

Phoenix, AZ

December 6, 2019

"Patient Selection and Case Studies"

American Society of Pain and Neurosciences Cadaver Lab 2019

CornerLoc Medical

Phoenix, AZ

December 7, 2019

"Optimization of the BurstDr Stimulation Waveform"

Topic in Neuromodulation

American Society of Pain and Neurosciences Cadaver Lab 2019

Abbott Medical

Phoenix, AZ

December 7, 2019

"Interventional Pain Procedures"

University of Nevada at Reno

Reno, NV

January 15, 2020

"Improving Limb Salvage in Critical Limb Ischemia with Spinal Cord Stimulation"

North American Neuromodulation Society Annual Assembly Meeting Las Vegas, NV January 24, 2020

"Lower Your Dose, Raise Your Expectations" Topics in Neuromodulation Dinner – Abbott Medical North American Neuromodulation Society Annual Assembly Meeting Las Vegas, NV January 24, 2020

"Innovations in Neuromodulation"
Abbott Medical
North American Neuromodulation Society
Annual Assembly Meeting
Las Vegas, NV
January 25, 2020

"UBRELVY: A New Acute Treatment Option for Migraine" Allergan Neurosciences Sacramento, CA January 30, 2020

"UBRELVY: A New Acute Treatment Option for Migraine" Allergan Neurosciences Reno, NV February 3, 2020

"Emergency Room Opioid Protocols" University of Reno Nevada – Echo Project Reno, NV February 5. 2020

Techniques in Neuromodulation: Spinal Cord Stimulation Proctorship Abbott Medical Reno, NV February 28, 2020

"UBRELVY: A New Acute Treatment Option for Migraine" Allergan Neurosciences
Las Vegas, NV
March 4, 2020

Techniques in Neuromodulation: Dorsal Root Ganglion Proctorship

Abbott Medical

Reno, NV

March 6, 2020

Minimally Invasive Lumbar Decompression (MILD) Training – Course Director

University of California at San Diego Medical Center

Vertos Medical

San Diego, CA

March 7, 2020

"Lumbar Spinal Stenosis and Treatment Options"

Northern Nevada Medical Center

Reno, NV

March 10, 2020

"BurstDRTM Stimulation and its Consistent Evidence of being a Novel

Waveform" - Panel Presentor

Abbott Medical

Webinar

March 25, 2020

Chronic Migraine Virtual Local Live: A Foundational Chronic Migraine Treatment

Allergan Neurosciences

Webinar

April 14, 2020

"A Treatment Option for Chronic Pain from CRPS and Causalgia"

Abbott Medical

Webinar for the Reflex Sympathetic Dystrophy Syndrome Association

April 22, 2020

"BOLD Publication Talk Show" - Panel Presenter

Abbott Medical

Webinar

April 29, 2020

"12 Step Program for Opioid Prescribing"

University of Reno Nevada – Echo Project

Reno, NV

June 2. 2020

"UBRELVY: A New Acute Treatment Option for Migraine"

Allergan Neurosciences

Webinar

June 1, 2020

"SI Joint Dysfunction: A Webinar for Interventional Pain Physicians" CornerLoc Webinar

June 4, 2020

"UBRELVY: A New Acute Treatment Option for Migraine" Allergan Neurosciences Webinar June 8, 2020

"Treatment of Sacroiliac Joint Disease" Pacific Spine & Pain Society Webinar June 9, 2020

Sacroiliac joint pain and treatments: CornerLoc Proctorship CornerLoc Reno, NV June 15, 2020

"Your Practice, Our Difference: Strategies to Grow Your Pain Practice"
- Panel Speaker (Webinar)
Abbott Medical
Reno, NV
June 23, 2020

Minimally Invasive Lumbar Decompression (MILD) Training – Course Director

Vertos Medical Denver, CO

July 11, 2020

"Pain Management and Alternatives to Managing Chronic Pain" University Of Nevada, Reno School of Medicine Reno, NV July 21, 2020

"Chronic Migraine Local Live-BOTOX®: A First-Choice Treatment in Chronic Migraine"
Allergan Neurosciences

Webinar

July 23, 2020

"Chronic Migraine Local Live-BOTOX®: A First-Choice Treatment in Chronic Migraine"

Allergan Neurosciences

Webinar

July 29, 2020

CornerLoc: Stabilization and Bone Healing in SI Joint Arthrodesis American Society of Pain & Neuroscience Think Tank Webinar August 12, 2020

Vertos Medical: Redefining the MILD Procedure: Emerging Techniques & Advancing the Treatment Algorithm American Society of Pain & Neuroscience Think Tank Webinar August 18, 2020

Expanding Opportunities to Treat LSS Patients Earlier & More Often with PILD
Pacific Spine & Pain Society
Webinar
September 2, 2020

"Interventional Pain Procedures" University of Nevada at Reno Reno, NV September 10, 2020

The Evidence Basis for Dorsal Column Stimulation and Review of NACC Guidelines
Pacific Spine & Pain Society 2020 Annual Meeting
San Diego, CA
September 12, 2020

Review of Percutaneous Direct Lumbar Decompression Pacific Spine & Pain Society 2020 Annual Meeting San Diego, CA September 12, 2020

Digital Marketing Pearls
Pacific Spine & Pain Society 2020 Annual Meeting
San Diego, CA
September 12, 2020

"Spinal Cord and Dorsal Root Ganglion Stimulation" Northern Nevada Medical Center Reno, NV September 15, 2020

"CDC Guidelines For Prescribing Opioids For Chronic Pain" University of Nevada Reno – Echo Project Reno, NV September 16, 2020

"Powerful Migraine Prevention Starts Today" Lundbeck Pharmaceutical Reno, NV September 18, 2020

"Minimally Invasive Sacroiliac Fusion: A Discussion on Biomechanics, Technique, Patient Selection and Evidence" American Society of Pain & Neuroscience Annual Meeting Webinar September 18, 2020

"Optimization of Pain Relief Utilizing Closed Loop Spinal Cord Stimulation"

American Society of Pain & Neuroscience Annual Meeting Webinar September 19, 2020

"Stimulation of the Medial Branch Nerve for Restoration of the Multifidus Muscle"

American Society of Pain & Neuroscience Annual Meeting Webinar September 19, 2020

Allergan Expert-On-Demand Program Abbvie Pharmaceuticals

Webinar

September 22, 2020

"CDC Guidelines For Prescribing Opioids For Chronic Pain" University of Nevada Reno – Echo Project Reno, NV September 23, 2020

"UBRELVY: A New Acute Treatment Option for Migraine" Abbvie Pharmaceuticals Webinar September 24, 2020 "12 Step Program for Opioid Prescribing" University of Nevada Reno– Echo Project Reno, NV October 7, 2020

"Common Office Pain Procedures" University of Nevada Reno Reno, NV October 8, 2020

Interventional Pain Cadaver Lab – Proctor World Academy of Pain Medicine United San Francisco, CA October 10, 2020

"12 Step Program for Opioid Prescribing" University of Nevada Reno– Echo Project Reno, NV October 14, 2020

"Powerful Migraine Prevention Starts Today" Lundbeck Pharmaceutical Reno, NV October 14, 2020

"Powerful Migraine Prevention Starts Today" Lundbeck Pharmaceutical Reno, NV October 15, 2020

Chronic Migraine Local Live – Botox: A First-Choice Treatment in Chronic Migraine
Webinar
Allergan Neurosciences
Portland, ME
October 16, 2020

Chronic Migraine – Expert on Demand Webinar Allergan Neurosciences Reno, NV October 20, 2020

UBRELVY: Acute Treatment Option for Migraine Allergan Neurosciences Reno, NV October 22, 2020

UBRELVY: Acute Treatment Option for Migraine

Webinar

Allergan Neurosciences Shingle Springs, CA October 26, 2020

Chronic Migraine Local Live – Botox: A First-Choice Treatment in Chronic Migraine

Allergan Neurosciences

Reno, NV

November 11, 2020

"Powerful Migraine Prevention Starts Today"

Lundbeck Pharmaceutical

Redlands, CA

November 16, 2020

mild® Procedure - Virtual Didactic Physician Training

Webinar

Vertos Medical

Reno, NV

November 17, 2020

Sacroiliac Joint Pain and Treatments: CornerLoc Proctorship

CornerLoc

Chico, CA

November 18, 2020

UBRELVY: Acute Treatment Option for Migraine

Allergan Neurosciences

Reno, NV

December 1, 2020

Chronic Migraine Local Live - Botox: A First-Choice Treatment in

Chronic Migraine

Allergan Neurosciences

Reno, NV

December 8, 2020

"Pain Management and Alternatives to Managing Chronic Pain"

University of Nevada Reno- Echo Project

Reno, NV

December 16, 2020

Chronic Migraine – Expert on Demand

Webinar

Allergan Neurosciences

Reno, NV

December 28, 2020

"To Prescribe or Not To Prescribe: Taking Over Controlled Substances on New Patients"

University of Nevada Reno- Echo Project

Reno, NV

February 3, 2021

Chronic Migraine – Expert on Demand

Webinar

Allergan Neurosciences

Reno, NV

February 5, 2021

"Don't Be a Passive Provider: Alternatives to Pain Management"

Webinar

University of Nevada, Reno – School Of Medicine

Reno, NV

February 7, 2021

Chronic Migraine Local Live – Botox: A First-Choice Treatment in Chronic Migraine

Webinar

Allergan Neurosciences

Reno, NV

February 17, 2021

Chronic Migraine – Expert on Demand

Webinar

Allergan Neurosciences

Reno, NV

February 18, 2021

Chronic Migraine - Expert on Demand

Webinar

Allergan Neurosciences

Reno, NV

February 19, 2021

Chronic Migraine – Expert on Demand

Webinar

Allergan Neurosciences

Reno, NV February 24, 2021

DRG New Implanter Training – Faculty University of California at Davis Abbott Medical Davis, CA February 27, 2021

Chronic Migraine – Expert on Demand Webinar Allergan Neurosciences Reno, NV March 1, 2021

Chronic Migraine Preceptorship: A Foundational Chronic Migraine Treatment
Allergan Neurosciences
Reno, NV
March 29, 2021

Chronic Migraine – Expert on Demand Webinar Allergan Neurosciences Reno, NV March 30, 2021

Chronic Migraine – Expert on Demand Webinar Allergan Neurosciences Reno, NV April 1, 2021

"Achieving Safe, Rapid Opioid Tapering With Wearable Neurostimulation" National Webinar - Panelist Spark Biomedical April 1, 2021

"A Fine Line Between Pain Management and Addiction:
What You Need To Know"
Washoe County Medical Society – Webinar
Reno, NV
April 8, 2021

"Fundamentals of Closed-Loop SCS: Understanding the Role of

Variability in Activation on Mechanism of Action" Pacific Spine & Pain Society – Cadaver Lab Las Vegas, NV April 10, 2021

"Powerful Migraine Prevention Starts Today" Lundbeck Pharmaceutical Sacramento, CA April 22, 2021

Chronic Migraine Preceptorship: A Foundational Chronic Migraine Treatment
Allergan Neurosciences
Reno, NV
April 28, 2021

Chronic Migraine – Expert on Demand Webinar Allergan Neurosciences Reno, NV April 30, 2021

Stanford Medicine Pain Symposium – Instructor Stanford University and World Academy of Pain Medicine United San Francisco, CA May 1, 2021

"Migraines" University of Nevada Reno– Echo Project Reno, NV May 5, 2021

MILD Procedure – Virtual Training Vertos Medical Reno, NV May 5, 2021

"Pain and Aging"
University of Nevada Reno– Echo Project
Reno, NV
May 19, 2021

Chronic Migraine – Expert on Demand Webinar Allergan Neurosciences Reno, NV May 20, 2021

"Regenerative Intradiscal Therapies"
Pacific Spine and Pain Society (PSPS) Minimally Invasive
Spine and Regenerative Medicine Workshop
Seattle, WA
May 22, 2021

"Vertebral Compression Fracture Augmentation"
Pacific Spine and Pain Society (PSPS) Minimally Invasive
Spine and Regenerative Medicine Workshop
Seattle, WA
May 22, 2021

"The mild Procedure: Remove the Problem, Leave Nothing Behind"
Pacific Spine and Pain Society (PSPS) Minimally Invasive
Spine and Regenerative Medicine Workshop
Seattle, WA
May 22, 2021

"Powerful Migraine Prevention Starts Today"
Webinar
Lundbeck Pharmaceutical
Reno, NV
May 24, 2021

Chronic Migraine – Expert on Demand Webinar Allergan Neurosciences Reno, NV May 24, 2021

MILD Procedure Training – Physician to Physician training Live Proctorship Vertos Medical Boise, ID May 27, 2021

Chronic Migraine Local Live – Botox: A First-Choice Treatment in Chronic Migraine
Webinar
Allergan Neurosciences
Reno, NV
June 4, 2021

"Introduction to Neuromodulation and Abbott Therapies"

Advanced Practice Practitioner Course Director Abbott Medical Scottsdale, AZ June 5, 2021

Chronic Migraine – Expert on Demand Webinar Allergan Neurosciences Reno, NV June 8, 2021

"Migraine Myth Busters: Exploring the Role of Aimovig" Webinar Amgen Pharmaceuticals Reno, NV June 9, 2021

Multidisciplinary Pain Management – Moderator Webinar Pacific Spine and Pain Society Reno, NV June 15, 2021

"A Treatment Option for Chronic Pain from CRPS and Causalgia" Webinar for the Reflex Sympathetic Dystrophy Syndrome Association Abbott Medical Reno, NV June 17, 2021

UBRELVY: Acute Treatment Option for Migraine Allergan Neurosciences Reno, NV June 29, 2021

Chronic Migraine – Expert on Demand Webinar Allergan Neurosciences Reno, NV July 8, 2021

"SI Fusion Patient Selection" Webinar Pacific Spine and Pain Society Reno, NV July 13, 2021

UBRELVY: Acute Treatment Option for Migraine

Allergan Neurosciences Las Vegas, NV July 14, 2021

UBRELVY: Acute Treatment Option for Migraine Allergan Neurosciences Las Vegas, NV July 15, 2021

"SI Joint Fusion"

The American Society of Pain & Neuroscience Annual Meeting Lab Miami, FL July 22, 2021

"Innovations in Neuromodulation"
Abbott Medical
The American Society of Pain & Neuroscience Annual Meeting
Miami, FL
July 22, 2021

"Minimally Invasive Techniques for Lumbar Fusion: Current Techniques: Facet fixation, pedicle screws, and interspinous devices" – Panel Presenter

The American Society of Pain & Neuroscience Annual Meeting Miami, FL July 23, 2021

"Minimally Invasive Sacroiliac Fusion: A discussion on evidence and optimal surgical approach" – Panel Presenter
The American Society of Pain & Neuroscience Annual Meeting
Miami, FL
July 23, 2021

"Remote Monitoring and Programming of Neuromodulation Devices"

- Panel Presenter

The American Society of Pain & Neuroscience Annual Meeting Miami, FL July 24, 2021

"Pain and Aging" Webinar Hello Health Reno, NV July 28, 2021

UBRELVY: Acute Treatment Option for Migraine

Webinar Allergan Neurosciences Las Vegas, NV August 2, 2021

"Muscle Relaxants – A Misnomer?" University of Nevada Reno– Echo Project Reno, NV August 4, 2021

"Pain Management and Treatment Alternatives" Webinar University of Nevada Reno Rural Hospital Program August 17, 2021

"Opioid Management and The Twelve Steps to Proper Opioid Prescribing"

Webinar

University of Nevada Reno Rural Hospital Program August 24, 2021

"Opioid Risk Assessment Tools" Webinar University of Nevada Reno Rural Hospital Program August 31, 2021

"Management of Acute vs Chronic Pain" Webinar University of Nevada Reno Rural Hospital Program September 7, 2021

UBRELVY: Acute Treatment Option for Migraine Allergan Neurosciences Las Vegas, NV August 17, 2021

"Recent Advancements in Lumbar Spinal Stenosis" University of Nevada Reno– Echo Project Reno, NV August 18, 2021

UBRELVY: Acute Treatment Option for Migraine Allergan Neurosciences Reno, NV August 23, 2021 UBRELVY: Acute Treatment Option for Migraine

Allergan Neurosciences

Reno, NV

August 24, 2021

MILD Procedure Training - Physician to Physician training

Live Proctorship

Vertos Medical

Sacramento, CA

August 26, 2021

"SI Fusion: Is it a Pain Procedure or Spine Procedure"

Webinar

Pacific Spine and Pain Society

September 16, 2021

MILD Procedure – Virtual Training

Vertos Medical

Reno, NV

September 22, 2021

Chronic Migraine - Expert on Demand

Webinar

Allergan Neurosciences

Reno, NV

September 23, 2021

Chronic Migraine Local Live – Botox: A First-Choice Treatment in

Chronic Migraine

Allergan Neurosciences

Folsom, CA

October 4, 2021

UBRELVY: Acute Treatment Option for Migraine

Allergan Neurosciences

Reno, NV

October 5, 2021

Chronic Migraine – Expert on Demand

Webinar

Allergan Neurosciences

Reno, NV

October 5, 2021

"Powerful Migraine Prevention Starts Today"

Webinar Lundbeck Pharmaceutical Reno, NV October 7, 2021

DRG New Implanters Course – Faculty Abbott Medical Dallas, TX October 9 – 10, 2021

"CDC Guidelines for Opiate Prescribing" University of Nevada Reno– Echo Project Reno, NV October 13, 2021

"Treatment Innovations for Migraine Patients" Allergan Neurosciences Roseville, CA October 14, 2021

"Treatment Innovations for Migraine Patients" Allergan Neurosciences Carson City, NV October 20, 2021

"Treatment Innovations for Migraine Patients" Allergan Neurosciences Reno, NV October 25, 2021

"12 Steps to Proper Opiate Prescribing" University of Nevada Reno– Echo Project Reno, NV October 27, 2021

"Treatment Innovations for Migraine Patients" Allergan Neurosciences Reno, NV October 27, 2021

MILD Procedure Training Vertos Medical Phoenix, AZ October 30, 2021

"Opioid Weaning - What are My Options?"

University of Nevada Reno– Echo Project Reno, NV November 3, 2021

Fellows Introduction to Neuromodulation – Faculty Abbott Medical Austin, TX
November 6 -7, 2021

Chronic Migraine – Expert on Demand Webinar Allergan Neurosciences Reno, NV November 10, 2021

"Treatment Innovations for Migraine Patients" Allergan Neurosciences Lodi, CA November 10, 2021

"Treatment Innovations for Migraine Patients" Allergan Neurosciences Carson City, NV November 15, 2021

"Advancements in Treating Lumbar Degenerative Disc Disease" University of Nevada Reno– Echo Project Reno, NV November 17, 2021

"Treatment Innovations for Migraine Patients" Allergan Neurosciences Reno, NV November 18, 2021

Advanced Topics Neuromodulation Course – Faculty Abbott Medical Austin, TX
December 4 – 5, 2021

Chronic Migraine Preceptorship: A Foundational Chronic Migraine Treatment Allergan Neurosciences Reno, NV December 9, 2021 The American Society of Pain and Neurosciences (ASPN)
Innovation Summit Lab
MILD Procedure Proctor
Las Vegas, NV
January 7, 2022

"Unique Mechanism of Action for DRG Therapy"
North American Neuromodulation Society Annual Meeting
Abbott Medical
Orlando, FL
January 13, 2022

"Proven Superiority for DRG Therapy"
North American Neuromodulation Society Annual Meeting Abbott Medical
Orlando, FL
January 13, 2022

"Restoring Neuromodulation Benefit for Waning SCS Therapy"
North American Neuromodulation Society Annual Meeting
Abbott Medical
Orlando, FL
January 13, 2022

"Objectively Measuring Patient Therapy Response"
North American Neuromodulation Society Annual Meeting
Abbott Medical
Orlando, FL
January 14, 2022

Topics in Neuromodulation Symposium - Speaker North American Neuromodulation Society Annual Meeting Abbott Medical Orlando, FL January 14, 2022

"REALITY Sub-study: Developing an Objective Pain Score for Patients with Implanted Spinal Cord Stimulation" North American Neuromodulation Society Annual Meeting 2022 Orlando, FL January 15, 2022

Chronic Migraine Local Live – Botox: A First-Choice Treatment in Chronic Migraine
Webinar
Allergan Neurosciences

Reno, NV January 20, 2022

Techniques in Neuromodulation: Spinal Cord Stimulation Proctorship Abbott Medical Reno, NV January 28, 2022

HER-MES Update – Aimovig Myth Busters Amgen Pharmaceuticals Reno, NV January 31, 2022

"Pain Management and Alternatives to Managing Chronic Pain" University of Nevada Reno– Echo Project Reno, NV February 2, 2022

"Role of Tramadol in Pain Management" University of Nevada Reno– Echo Project Reno, NV February 16, 2022

MILD Procedure – Virtual Training Vertos Medical Reno, NV February 16, 2022

Chronic Migraine – Expert on Demand Webinar Allergan Neurosciences Reno, NV February 17, 2022

Pacific Spine & Pain Society Neurostimulation Lab Dorsal Root Ganglion Procedure Proctor Scottsdale, AZ February 19, 2022

AIS Pharmacy Experience (APEX) - Faculty AIS Healthcare Dallas, TX February 26, 2022

"Treatment Innovations for Migraine Patients" Allergan Neurosciences

Reno, NV March 3, 2022

Aurora ZIP and SILO Cadaver Lab – Faculty Aurora Spine St George, UT March 5, 2022

Chronic Migraine – Expert on Demand Webinar Allergan Neurosciences Reno, NV March 10, 2022

Chronic Migraine – Expert on Demand Webinar Allergan Neurosciences Reno, NV March 18, 2022

Chronic Migraine – Expert on Demand Webinar Allergan Neurosciences Reno, NV March 18, 2022

"Treatment Innovations for Migraine Patients" Webinar Allergan Neurosciences Reno, NV March 21, 2022

Chronic Migraine – Expert on Demand Webinar Allergan Neurosciences Reno, NV March 22, 2022

Chronic Migraine – Expert on Demand Webinar Allergan Neurosciences Reno, NV March 28, 2022

"Treatment Innovations for Migraine Patients" Allergan Neurosciences

Reno, NV March 31, 2022

AIS Pharmacy Experience (APEX) - Faculty AIS Healthcare Dallas, TX April 2, 2022

Fellows Dorsal Root Ganglion Stimulation Course – Faculty Abbott Medical Austin, TX April 9-10, 2022

MILD Procedure – Virtual Training Vertos Medical Reno, NV April 13, 2022

Chronic Migraine – Expert on Demand Webinar Allergan Neurosciences Reno, NV April 14, 2022

Chronic Migraine – Expert on Demand Webinar Allergan Neurosciences Reno, NV April 18, 2022

MILD Procedure Training – Physician to Physician training Live Proctorship Vertos Medical Roseville, CA April 22, 2022

Chronic Migraine – Expert on Demand Webinar Allergan Neurosciences Reno, NV April 27, 2022

VIA Disc NP Masters Course – Faculty Webinar Vivex Biologics Reno, NV

April 27, 2022

"Muscle Relaxants: Misnomer?" University of Nevada Reno– Echo Project Reno, NV May 4, 2022

"Powerful Migraine Prevention" Webinar Lundbeck Pharmaceutical Reno, NV May 12, 2022

"Portfolio of Migraine Treatments" Abbvie Pharmaceutical Stockton, CA May 12, 2022

mild Disrupter Summit – Faculty Vertos Medical Pasadena, CA May 13 - 15, 2022

"Common Office injections to MSK Pain" University of Nevada Reno– Echo Project Reno, NV May 18, 2022

"Portfolio of Migraine Treatments" Abbvie Pharmaceutical Las Vegas, NV June 1, 2022

"Portfolio of Migraine Treatments" Abbvie Pharmaceutical Las Vegas, NV June 2, 2022

Coordinated Care Course: Optimizing Outcomes for the Pain Patient – Faculty
Abbott Neuromodulation
Austin, TX
June 4 – 5, 2022

Chronic Migraine – Expert on Demand Webinar

Allergan Neurosciences

Reno, NV

June 6, 2022

Chronic Migraine – Expert on Demand

Webinar

Allergan Neurosciences

Reno, NV

June 8, 2022

CornerLoc Patient Education Webinar

Webinar

CornerLoc

Reno, NV

June 12, 2022

Chronic Migraine – Expert on Demand

Webinar

Allergan Neurosciences

Reno, NV

June 16, 2022

Chronic Migraine Local Live-BOTOX®: A First-Choice Treatment in Chronic Migraine

Allergan Neurosciences

Sacramento, CA

June 16, 2022

Chronic Migraine – Expert on Demand

Webinar

Allergan Neurosciences

Reno, NV

June 21, 2022

"Utilizing Ultrasound for MSK & Pain Injections: Techniques & Best Practices"

Webinar

Pajunk Medical

Reno, NV

June 22, 2022

"Know Your Back Story" National Health Awareness Campaign -

Faculty

Vertos Medical

New York, NY

June 22, 2022

VIA Disc NP Masters Course – Faculty Webinar Vivex Biologics Reno, NV June 29, 2022

"The Imaging of Pain: What Is Abnormal?" – Panel Presenter The American Society of Pain & Neuroscience Annual Meeting Miami, FL July 15, 2022

"Mechanisms of Spinal Disease: Spinal Stenosis, Spondylolisthesis,
Degenerative Disc Disease" – Panel Presenter
The American Society of Pain & Neuroscience Annual Meeting
Miami, FL
July 15, 2022

"The Importance of Patient Centricity" ASPN 2022 Abbott Lunch Symposium Miami Beach, FL July 16, 2022

Chronic Migraine – Expert on Demand Webinar Allergan Neurosciences Reno, NV July 21, 2022

Coordinated Care Course: Optimizing Outcomes for the Pain Patient – Faculty
Abbott Neuromodulation
Austin, TX
July 23 - 24, 2022

"Common Office Injections to MSK Pain Pt II" University of Nevada Reno– Echo Project Reno, NV August 3, 2022

"Common Office Pain Procedures"
Pajunk Medical National Sales Meeting
Pajunk Medical
Webinar
Reno, NV
August 9, 2022

"Portfolio of Migraine Treatments" Abbvie Pharmaceutical Carson City, NV August 11, 2022

"Common Office MSK Procedures"
Pajunk Medical National Sales Meeting
Pajunk Medical
Webinar
Reno, NV
August 16, 2022

"Opioid Weaning Protocols" University of Nevada Reno– Echo Project Reno, NV August 17, 2022

mild® Procedure - Virtual Didactic Physician Training Webinar Vertos Medical Reno, NV August 17, 2022

"Program Orientation and Introduction to Implicit Bias" SilverSummit Healthplan Pain Management ECHO Webinar Reno, NV August 24, 2022

MILD Procedure Training – Physician to Physician training Live Proctorship Vertos Medical Idaho Falls, ID August 25, 2022

Chronic Migraine – Expert on Demand Webinar Allergan Neurosciences Reno, NV August 26, 2022

Abbott Spinal Cord Stimulation Peer-to-Peer Program - Proctor Abbott Neuromodulation Reno, NV September 2, 2022 "Lumbar Degenerative Disc Disease and Spine Surgery" – Moderator Pacific Spine and Pain Society Advanced Practice Practitioner Webinar Reno, NV September 7, 2022

"Portfolio of Migraine Treatments" Abbvie Pharmaceutical Las Vegas, NV September 14, 2022

"Portfolio of Migraine Treatments" Abbvie Pharmaceutical Las Vegas, NV September 15, 2022

"Migraine and Interventional Treatments"
Advanced Practice Provider Course
Pacific Spine and Pain Society (PSPS) 2022 Annual Conference
Last Vegas, NV
September 16, 2022

"Topics in Neuromodulation"
Pacific Spine and Pain Society (PSPS) 2022 Annual Conference
Abbott Neuromodulation
Last Vegas, NV
September 16, 2022

"Dorsal Root Ganglion Stimulation: Beyond CRPS" Pacific Spine and Pain Society (PSPS) 2022 Annual Conference Last Vegas, NV September 17, 2022

"Sacroiliac Joint Fusion, Lateral and Posterior Approaches" –
Panel Presenter
Pacific Spine and Pain Society (PSPS) 2022 Annual Conference
Last Vegas, NV
September 17, 2022

"Common Lower Extremities MSK Pain" University of Nevada Reno– Echo Project Reno, NV September 21, 2022

MILD Procedure Training – Physician to Physician training Live Proctorship

Vertos Medical Redding, CA September 27, 2022

"CDC Guidelines for Opiate Prescribing"
SilverSummit Healthplan Pain Management ECHO
Webinar
Reno, NV
September 28, 2022

"12 Steps to Proper Opiate Prescribing: Opiates, Benzos, & More" SilverSummit Healthplan Pain Management ECHO Webinar Reno, NV October 12, 2022

"Popular Joint & Bursa Injections Using Ultrasound (Part 1)" Webinar Pajunk Medical Reno, NV October 13, 2022

"Powerful Migraine Prevention" Lundbeck Pharmaceutical Reno, NV October 18, 2022

"Portfolio of Migraine Treatments" Abbvie Pharmaceutical Reno, NV October 18, 2022

"Opioids: What You Should Know About Opioid Prescribing" Rocky Mountain Vista College of Osteopathic Medicine Webinar Reno, NV October 29, 2022

Chronic Migraine Preceptorship: A Foundational Chronic Migraine Treatment Allergan Neuroscience Reno, NV November 9, 2022

mild® Procedure - Virtual Didactic Physician Training Webinar

Vertos Medical

Reno, NV

November 9, 2022

"Faceteogenic Lower back Pain: What to know and how to treat?"

University of Nevada Reno- Echo Project

Reno, NV

November 16, 2022

"Common Office Peripheral Nerve Blocks: Techniques & Best Practices"

Pajunk Medical

Reno, NV

December 1, 2022

Peripheral Nerve Stimulation vs Dorsal Root Ganglion Stimulation – Panel

Advanced Practice Providers Course

American Society of Pain and Neuroscience Innovation Summit And Data Reveal

Las Vegas, NV

December 9, 2022

PILD vs interspinous Spacer - Panel

Advanced Practice Providers Course

American Society of Pain and Neuroscience Innovation Summit And Data Reveal

Las Vegas, NV

December 9, 2022

"Topics In Neuromodulation"

American Society of Pain and Neuroscience Innovation Summit And Data Reveal

And Data Reveal

Abbott Neuromodulation

Las Vegas, NV

December 9, 2022

PILD Cadaver Physician Training - Proctor

North American Neuromodulation Society Annual Meeting

Las Vegas, NV

January 12, 2023

"Topics In Neuromodulation"

North American Neuromodulation Society Annual Meeting

Abbott Medical

Las Vegas, NV

January 13, 2023

"Portfolio of Migraine Treatments" Abbvie Pharmaceutical Vacaville, CA January 26, 2023

"12 Step Program For Opioid Prescribing" University of Nevada Reno– Echo Project Reno, NV February 1, 2023

Chronic Migraine Preceptorship: A Foundational Chronic Migraine
Treatment
Allergan Neuroscience
Reno, NV
February 8, 2023

AIS Pharmacy Experience (APEX) - Faculty AIS Healthcare Dallas, TX February 11, 2023

"Pain Management and Alternatives to Managing Chronic Pain" University of Nevada Reno– Echo Project Reno, NV February 15, 2023

Abbott Spinal Cord Stimulation Peer-to-Peer Program - Proctor Abbott Neuromodulation Reno, NV February 17, 2023

Abbott Spinal Cord Stimulation Peer-to-Peer Program - Proctor Abbott Neuromodulation Reno, NV February 24, 2023

Sierra Spine Society Winter Symposium- Faculty Mammoth, CA March 3 - 5, 2023

"Portfolio of Migraine Treatments" Abbvie Pharmaceutical Reno, NV March 7, 2023 Chronic Migraine – Expert on Demand Webinar Allergan Neurosciences Reno, NV March 17, 2023

Chronic Migraine Local Live – Botox: A First-Choice Treatment in Chronic Migraine
Abbvie Neurosciences
Walnut Creek, CA
April 26, 2023

"Opioid Weaning Protocols" University of Nevada Reno– Echo Project Reno, NV May 3, 2023

Accelerator Module 2 Course – National Fellows DRG Course Abbott Neuromodulation Austin, TX May 6 -7, 2023

"Complex Regional Pain Syndrome vs Causalgia" University of Nevada Reno– Echo Project Reno, NV May 17, 2023

"Advanced Practice Practitioner Models" Pacific Spine and Pain Society Webinar Reno, NV May 18, 2023

"Advanced Practice Practitioner Scope of Practice" Pacific Spine and Pain Society Webinar Reno, NV May 18, 2023

AIS Pharmacy Experience (APEX) - Faculty AIS Healthcare Dallas, TX May 20, 2023

"Portfolio of Migraine Treatments"

Abbvie Pharmaceutical Reno, NV May 23, 2023

Minimally Invasive Spine Lab – Faculaty Pacific Spine and Pain Society Westminster, CO June 3, 2023

Diabetic Peripheral Neuropathy and Neuromodulation Abbott Neuromodulation Reno, NV June 6, 2023

Chronic Migraine – Expert on Demand Webinar Allergan Neurosciences Reno, NV June 13, 2023

"Topics In Neuromodulation"
American Society of Pain and Neuroscience Annual Meeting Abbott Neuromodulation
Miami, FL
July 14, 2023

"Advancements in Minimally Invasive Techniques for Spinal Stenosis"
Panel Speaker
American Society of Pain and Neuroscience Annual Meeting
Miami, FL
July 14, 2023

National Virtual Patient Education Program Abbott Neuromodulation Reno, NV July 19, 2023

Vertos Cadaver Usability Lab Vertos Medical New Port Beach, CA July 29, 2023

"What a Pain In the Butt: Sacroiliac Joint Dysfunction" University of Nevada Reno– Echo Project Reno, NV August 2, 2023

"Ablate vs Stimulate" – Moderator Advanced Practice Practitioner Webinar Pacific Spine and Pain Society Reno, NV August 2, 2023

Chronic Migraine – Expert on Demand Webinar Allergan Neurosciences Reno, NV August 4, 2023

"Too Much is Not a Good Thing: Overuse Syndrome" University of Nevada Reno– Echo Project Reno, NV August 16, 2023

mild® Procedure - Virtual Didactic Physician Training Webinar Vertos Medical Reno, NV August 29, 2023

"Expanding Access to Care" Abbott Neuromodulation Honolulu, HI September 6, 2023

SI Joint Fusion Demonstration Pacific Spine and Pain Society Annual Meeting Lab O'ahu Ko'Olina, O'Ahu, HI September 7, 2023

MIS vs Open Spinal Procedures – Panel Pacific Spine and Pain Society Annual Meeting APP Course O'ahu Ko'Olina, O'Ahu, HI September 7, 2023

"Pain Management Medication Guidance: Non-opioids vs Opioids" Pacific Spine and Pain Society Annual Meeting APP Course O'ahu Ko'Olina, O'Ahu, HI September 7, 2023

"How to Grow Your Practice. Trends of the 2020s" Pacific Spine and Pain Society Annual Meeting

O'ahu Ko'Olina, O'Ahu, HI September 8, 2023

Sacroiliac Joint Fusion, Lateral & Posterior Approach Debate – Panel Pacific Spine and Pain Society Annual Meeting O'ahu Ko'Olina, O'Ahu, HI September 8, 2023

"Portfolio of Migraine Treatments" Abbvie Pharmaceutical Reno, NV September 12, 2023

mild® Procedure - Virtual Didactic Physician Training Webinar Vertos Medical Reno, NV September 26, 2023

"Powerful Migraine Prevention" Lundbeck Pharmaceutical Reno, NV September 28, 2023

"Orietation to Project ECHO" Anthem Pain Management ECHO Reno, NV October 11, 2023

AIS Pharmacy Experience (APEX) - Faculty AIS Healthcare Dallas, TX October 14, 2023

Chronic Migraine – Expert on Demand Webinar Allergan Neurosciences Reno, NV November 1, 2023

"How to Market Yourself". Trends of the 2020s" Pacific Spine and Pain Society – LIT Webinar Reno, NV November 6, 2023

"CDC Guidelines for Opiate Prescribing"

Anthem Pain Management ECHO Reno, NV November 8, 2023

Abbott Virtual DRG-CRPS Patient Advocacy Presentation Abbott Neuromodulation Reno, NV November 8, 2023

TransLoc Physician Training – Faculty CornerLoc Reno, NV November 9, 2023

PainTEQ Physician Training – Faculty PainTEQ Scottsdale, AZ November 11, 2023

"Role of Tramadol in Pain Management" University of Nevada Reno– Echo Project Reno, NV November 15, 2023

"12 Steps to Proper Opiate Prescribing: Opiates, Benzos, & More"
Anthem Pain Management ECHO
Reno, NV
November 22, 2023

Chronic Migraine – Expert on Demand Webinar Allergan Neurosciences Reno, NV November 22, 2023

Vertos Physician Round Table Dinner Vertos Medical Chico, CA November 28, 2023

Advanced Professional Development Courses

University of Southern Florida School of Medicine Clinical Update: Botulinum Toxin Type A in the Treatment of

Back Pain and Muscle Spasm, Minneapolis, MN. August 23, 2003

University of Minnesota School of Medicine Neurotoxin Injection Seminar Minneapolis, MN. February 12, 2005

American Academy of Physical Medicine and Rehabilitation Annual Assembly Meeting Philadelphia, PA. October 27 – 29, 2005

Fifteenth Annual Mayo Clinic Symposium on Sports Medicine Rochester, MN.

November 4 – 5, 2005

American Academy of Pain Medicine Annual Assembly Meeting San Diego, CA February 22 – 25, 2006

Fundamentals of Diagnostic Musculoskeletal Ultrasound With An In-Depth Focus on Shoulder Examination American Academy of Physical Medicine and Rehabilitation Annual Assembly Meeting Honolulu, HI November 8, 2006

American Academy of Physical Medicine and Rehabilitation Annual Assembly Meeting Honolulu, HI November 9 – 12, 2006

American Academy of Physical Medicine and Rehabilitation Billing and Coding Workshop Boston, MA
September 25 – 26, 2007

American Academy of Physical Medicine and Rehabilitation Annual Assembly Meeting Boston, MA September 27 – 30, 2007

International Spine Interventional Society

Annual Assembly Meeting Las Vegas, NV July 23 – 26, 2008

American Academy of Physical Medicine and Rehabilitation Billing and Coding Workshop San Diego, CA November 18 – 19, 2008

American Academy of Physical Medicine and Rehabilitation Annual Assembly Meeting San Diego, CA November 20 – 23, 2008

American Academy of Physical Medicine and Rehabilitation Billing and Coding Workshop Austin, TX
November 20 – 21, 2009

American Academy of Physical Medicine and Rehabilitation Annual Assembly Meeting Austin, TX October 22 – 25, 2009

The 17th Napa Pain Conference Napa, California August 13 – 15, 2010

North American Neuromodulation Society Annual Assembly Meeting Las Vegas, NV December 2 – 5, 2010

The 18th Napa Pain Conference Napa, California September 16 – 18, 2011

American Academy of Physical Medicine and Rehabilitation Billing and Coding Workshop Orlando, FL
November 15 – 16, 2012

American Academy of Physical Medicine and Rehabilitation Annual Assembly Meeting Orlando, FL November 17 – 20, 2011

North American Neuromodulation Society Annual Assembly Meeting Las Vegas, NV December 8 - 11, 2011

Society of Diagnostic Medical Sonography Introduction to Musculoskeletal Ultrasound imaging June 3, 2012

International Spine Interventional Society Annual Assembly Meeting Las Vegas, NV July 17–22, 2012

American Academy of Physical Medicine and Rehabilitation Billing and Coding Workshop Atlanta, GA
November 12 – 13, 2012

American Academy of Physical Medicine and Rehabilitation Annual Assembly Meeting Atlanta, GA November 14 – 17, 2012

West Virginia Society of Interventional Pain Physicians Pain, 2013 West Palm Beach, FL July 11 -14, 2013

Allergan Neuroscience Speaker Training Meeting Annual Speaker Training Meeting San Diego, CA February 7 – 9, 2014

West Virginia Society of Interventional Pain Physicians Pain, 2014 San Juan, Puerto Rico June 19 - 22, 2014

Society for Pain Practice Management Billing, Coding, and Practice Management Course San Diego, CA August 13 - 14, 2014

Allergan Neuroscience Speaker Training Meeting

Annual Speaker Training Meeting Dallas, TX March 27 - 28, 2015

International Neuromodulation Society 12th World Congress Bi-Annual Assembly Meeting Montreal, Canada June 7 - 11, 2015

16th Annual Pain Management Billing, Coding & Compliance Summit
Decision Health
Las Vegas, NV
September 14 – 16, 2015

North American Neuromodulation Society Annual Assembly Meeting Las Vegas, NV December 10 - 13, 2015

Allergan Neuroscience Speaker Training Meeting Annual Speaker Training Meeting Dallas, TX January 22 - 23, 2016

West Virginia Society of Interventional Pain Physicians Pain, 2016 Nassau, Bahamas July 22 - 24, 2016

St Jude Medical Speaker Training Meeting Phoenix, AZ October 6 - 7, 2016

Becker's ASC 23rd Annual Meeting: The Business and Operations of ASC's Chicago, IL
October 27 – 29, 2016

Society for Pain Practice Management Billing and Practice Management Course Scottsdale, AZ November 3 – 4, 2016

North American Neuromodulation Society Annual Assembly Meeting Las Vegas, NV January 19 - 22, 2017

Abuse Deterrent Technology
A Case Based Learning Program for Interventional Pain
Specialists
San Francisco, CA
March 10 – 11, 2017

Allergan Neuroscience Speaker Training Meeting Annual Speaker Training Meeting – Chronic Migraine Denver, CO April 7 - 8, 2017

International Neuromodulation Society 13th World Congress Bi-Annual Assembly Meeting Edinburgh, Scotland May 27 – June 1, 2017

Allergan Neuroscience Speaker Training Meeting Annual Speaker Training Meeting – Neuro Rehabilitation Denver, CO June 16 - 17, 2017

Vertiflex Superion Training Course Dallas, Texas July 8, 2017

2017 Advanced Specialty Coding, Compliance and Reimbursement Symposium
Decision Health
Las Vegas, NV
October 2 - 4, 2017

Becker's ASC 24th Annual Meeting: The Business and Operations of ASC's Chicago, IL October 26 – 28, 2017

North American Neuromodulation Society Annual Assembly Meeting Las Vegas, NV January 11 - 14, 2018

Silex Sacroiliac Joint Fusion Cadaver Training Lab Las Vegas, NV March 3, 2018

Allergan Neuroscience Speaker Training Meeting Annual Speaker Training Meeting – Chronic Migraine Dallas, TX March 23 - 24, 2018

CornerLoc Sacroiliac Joint Fusion Cadaver Training Lab Tulsa, OK April 21, 2018

The Intracept Procedure Cadaver Training Lab Relievant Medsystems Fort Worth, TX May 19, 2018

Amgen and Novartis Neuroscience Speaker Training Webcast Annual Speaker Training – Chronic Migraine May 24, 2018

West Virginia Society of Interventional Pain Physicians Pain, 2018 Miami, Florida June 1- 3, 2018

Becker's ASC 25th Annual Meeting: The Business and Operations of ASC's Chicago, IL October 18 – 20, 2018

California Society of Interventional Pain Physicians 9th Annual Conference Santa Barbara, California November 2 – 4, 2018

North American Neuromodulation Society Annual Assembly Meeting Las Vegas, NV January 17 - 20, 2019

Allergan Neuroscience Speaker Training Meeting Annual Speaker Training Meeting – Chronic Migraine Dallas, TX March 22 - 23, 2019

AIS Advisory Board Meeting

AIS Healthcare Dallas, TX April 29, 2019

International Neuromodulation Society 14th World Congress Bi-Annual Assembly Meeting Sydney, Australia May 25 – 30, 2019

The American Society of Pain and Neurosciences (ASPN) Pain, 2019 Miami Beach, Florida June 26 - 28, 2019

Nevada Opioid Abuse Prevention Summit Las Vegas, Nevada August 14 – 15, 2019

Napa Pain Conference 26th Annual Napa, California August 15 – 18, 2019

California Society of Interventional Pain Physicians 10th Annual Conference Squaw Valley, Lake Tahoe, California October 25 - 27, 2019

AIS Advisory Board Meeting AIS Healthcare Dallas, TX December 16, 2019

Ubrelvy Speaker Training Allergan Neurosciences Denver, CO January 17 - 18, 2020

North American Neuromodulation Society Annual Assembly Meeting Las Vegas, NV January 23 - 26, 2020

Society for Pain Practice Management Billing, Coding, and Practice Management Course Las Vegas, NV February 20 - 22, 2020

AIS Advisory Board Meeting Webinar AIS Healthcare Dallas, TX April 27, 2020

ViaDisc Virtual Master's Certification Course Vivex Medical Reno, NV June 16, 2020

Amgen and Novartis Neuroscience Speaker Training Webcast Annual Speaker Training – Chronic Migraine Reno, NV June 18, 2020

Lundbeck Web Based Speaker Training Lundbeck Pharmaceuticals Reno, NV August 22, 2020

Spinal Simplicity Minuteman System Cadaver Lab Spinal Simplicity Reno, NV September 26, 2020

AIS Advisory Board Meeting Webinar AIS Healthcare Reno, NV October 4, 2020

Pain Management: Virtual Coding Summit Webinar Decision Health Reno, NV November 17 -19, 2020

Ubrelvy Speaker Training Webcast Allergan Neurosciences Reno, NV January 8, 2021

Society for Pain Practice Management

Billing, Coding, and Practice Management Webcast Reno, NV January 20 - 22, 2021

SurGenTec Cadaveric Lab Training SurGenTec Tampa Bay, FL February 13, 2021

Zip Bioskills Education Course Aurora Pain Care Dallas, TX February 21-22, 2021

Amgen and Novartis Neuroscience Speaker Training Webcast Annual Speaker Training – Chronic Migraine Reno, NV February 24, 2021

Allergan Neuroscience Speaker Training Webcast Annual Speaker Training – Chronic Migraine Reno, NV March 19-20, 2021

Pacific Spine & Pain Society: Minimally Invasive Spine, Neurotomy, and Neuromodulation Workshop Las Vegas, NV April 10, 2021

Biotronik – NRO Usability Lab Biotronik Medical Portland, OR April 17, 2021

SpineJack Training Webinar Stryker Medical Reno, NV May 3, 2021

Lundbeck Web Based Speaker Training Lundbeck Pharmaceuticals Reno, NV May 8, 2020

Abbott DRG Advisory Board Meeting Abbott Medical

Austin, TX May 15 -16, 2021

Pacific Spine and Pain Society (PSPS) Minimally Invasive Spine and Regenerative Medicine Workshop Seattle, WA May 22, 2021

AIS Advisory Board Meeting Webinar AIS Healthcare Reno, NV June 14, 2021

The American Society of Pain and Neurosciences (ASPN) Pain, 2021 Miami Beach, Florida July 22 - 25, 2021

Pacific Spine and Pain Society (PSPS) 2021 Annual Conference Advanced Practice Practitioner Course Director Last Vegas, NV September 10, 2021

Pacific Spine and Pain Society (PSPS) 2021 Annual Conference Last Vegas, NV September 10 - 12, 2021

Ubrelvy and Atogepant Virtual Speaker Training Abbvie Neurosciences Reno, NV October 8, 2021

ReActiv8 Physician Certification Program: Course 1 – Clinical Application of ReActiv8
Webinar
Reno, NV
October 21, 2021

ReActiv8 Physician Certification Program: Course 2 –
Patient Profile Roundtable
Webinar
Reno, NV
October 12, 2021

ReActiv8 Physician Certification Program: Course 3 –

Cadaver Workshop San Diego, CA November 13, 2021

Amgen Neuroscience Speaker Training Webcast Annual Speaker Training – Chronic Migraine Reno, NV December 16, 2021

The American Society of Pain and Neurosciences (ASPN) Innovation Summit Las Vegas, NV January 7 - 8, 2022

North American Neuromodulation Society Annual Assembly Meeting Orlando, FL January 13 – 16, 2022

Society for Pain Practice Management Billing, Coding, and Practice Management Webcast Reno, NV January 19 - 21, 2022

Aurora SILO Training Cadaver Lab Aurora Spine Reno, NV February 12, 2022

Pacific Spine & Pain Society Neurostimulation Lab Scottsdale, AZ February 19, 2022

AIS Advisory Board Meeting AIS Healthcare Dallas, TX February 27, 2022

Abbvie Neuroscience Speaker Training Webcast Annual Speaker Training – Chronic Migraine Reno, NV May 10, 2022

Lundbeck Web Based Speaker Training Lundbeck Pharmaceuticals Reno, NV June 13, 2022

Vertos Medical Advisory Board Meeting Vertos Medical White Sulfer Springs, WV June 24 – 26, 2022

The American Society of Pain and Neurosciences (ASPN) Pain, 2022 Miami Beach, Florida July 14 - 17, 2022

Advanced Practice Provider Course – Course Director Pacific Spine and Pain Society (PSPS) 2022 Annual Conference Last Vegas, NV September 16, 2022

Pacific Spine and Pain Society (PSPS) 2022 Annual Conference Last Vegas, NV September 16 - 18, 2022

TransLoc Physician Training Course Reno, NV November 15, 2022

American Society of Pain and Neuroscience Innovation Summit And Data Reveal Las Vegas, NV December 9 – 10, 2022

North American Neuromodulation Society Annual Assembly Meeting Las Vegas, NV January 12 – 15, 2023

AIS Advisory Board Meeting AIS Healthcare Dallas, TX February 12, 2023

Abbvie Neuroscience Speaker Training Webcast Annual Speaker Training – Chronic Migraine Reno, NV March 16, 2023

Abbvie Neuroscience Advisory Board Meeting

Abbvie Neuroscience San Francisco, CA March 30, 2023

SI Bone Physician Training Course Reno, NV May 4, 2023

Abbott Neuromodulation Commercial Advisory Board Meeting Abbott Neuromodulation Miami, FL July 12, 2023

Vertos Commercial Advisory Board Meeting Vertos Medical Miami, FL July 13, 2023

The American Society of Pain and Neurosciences (ASPN) Pain, 2023 Miami Beach, Florida July 13 - 16, 2023

Advanced Practice Provider Course – Course Director Pacific Spine and Pain Society (PSPS) 2022 Annual Conference O'ahu Ko'Olina, O'Ahu, HI September 6, 2023

Pacific Spine and Pain Society (PSPS) 2023 Annual Conference O'ahu Ko'Olina, O'Ahu, HI September 6 - 9, 2023

Lundbeck Web Based Speaker Training Lundbeck Pharmaceuticals Reno, NV October 2, 2023

AIS Advisory Board Meeting AIS Healthcare Dallas, TX October 15, 2023

Saluda SENSE Summit Saluda Medical Scottsdale, AZ October 20 – 22, 2023 International Society of Pain and Neuroscience (ISPN) Inaugural Meeting Dubia, UAE December $8-9,\,2023$