CURRICULUM VITAE

A/Prof. Marc A Russo

(MBBS DA (UK) FANZCA, FFPMFANZCA)

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Professional Profile / Research Interests

I am a Specialist Pain Medicine Physician and have treated over 50,000 patients since establishing Hunter Pain Clinic (now Hunter Pain Specialists), Australia's first multidisciplinary private pain clinic, in 1999.

I am the Director of Hunter Pain Specialists, Director of Hamilton Day Surgery, and Co-Director of Innervate Pain Management Services. I am Director and Principal Investigator of Geneses Research Services. I was Co-Founder of the Newcastle Anaesthetic Peri-operative Service group.

I am the founding president of the Neuromodulation Society of Australia and New Zealand (NSANZ), and Immediate Past-President of the International Neuromodulation Society (INS).

I serve on the Examination Committee, the Professional Standards Committee, the Research and Innovation Committee, and the Procedures Working Group for the Faculty of Pain Medicine (ANZCA).

I am a published author in the field of pain medicine and am a reviewer for the National Health and Medical Research Council (NHMRC). I have been appointed Society Executive Advising Editor to Pain Medicine Journal.

I am a Conjoint Associate Professor at the University of Newcastle, NSW, Australia, and an Associate Professor at the University of Hong Kong.

I have conducted several world-first spinal cord stimulator implants, including first-in-man pain and device studies. My passion is furthering the boundaries of pain medicine and teaching colleagues in state-of-the-art pain management, contributing to the collective knowledge of my peers.

Participating in continuing professional development by media such as hands-on experience, conferences, webinars, journal articles and involvement in medical and scientific advisory boards keeps me abreast of changes.

I established Hunter Clinical Research in 2005 to further the study of pain management. Since then, it has expanded into Genesis Research Services. Through our commitment to spinal cord stimulation therapy, we have trialled various types of neuromodulation devices and systems to evaluate patient tolerances and effectiveness. I believe that through research, we can advance pain medicine via pharmaceutical therapy and/or by using medical devices. The extensive research projects I have led as principal investigator as detailed herein.

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Current Appointments - Russo Pain Management Group

Medical Director

Hunter Pain Specialists (formerly Hunter Pain Clinic), Broadmeadow, NSW, Australia
Genesis Research Services (formerly Hunter Clinical Research), Broadmeadow, NSW, Australia
Hamilton Day Surgery Centre, Hamilton, NSW, Australia
Hunter Specialist Medical Centre, Broadmeadow, NSW, Australia
Hunter Pain Management Program, Broadmeadow, NSW, Australia
Former Director Sydney Pain Specialists, Bella Vista, NSW, Australia

Hospital Privileges

Newcastle Private Hospital
Lingard Private Hospital
Sydney Adventist Hospital
Norwest Private Hospital

Faculty of Pain Medicine

Examiner for the Faculty Pain Medicine (ANZCA) [2014 – ongoing]
Member of the Research and Innovations Committee [reappointed July 2023-2025]
Accredited Procedural Supervisor for the Procedures Endorsement Program

University of Newcastle

Deputy Chair (External Engagement) – HMRI Brain Neuromodulation Research Program [2022 - ongoing]
Conjoint Associate Professor – School of Biomedical Sciences and Pharmacy, College of Health, Medicine and Wellbeing, University of Newcastle, NSW, Australia [2021 - ongoing]
PhD Supervisor - Biomedical Science (Honours) Student Annalyse Bonnard [2021]
Thesis: Investigating the activity of pain processing cells in response to spinal cord stimulation in rat model.

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Professional Qualifications and Employment History

2021 - Present	Conjoint Associate Professor University of Newcastle
2021 - 2024	President of the International Neuromodulation Society
2016 - 2019	Founder and Director of Sydney Pain Specialists
2005 - Present	Founder and Director of the former Australian Pain Research Centre, Hunter Clinical Research – now operating as Genesis Research Services
	Co-Founder and Co-Director Hunter Pain Management Program - Innervate Pain Management
2001 - Present	Founder and Director of Hamilton Day Surgery Centre
	Founder and Director of Hunter Specialist Medical Centre
1999 - Present	Founder and Director of Hunter Pain Clinic – now Hunter Pain Specialists
	Fellow of the Faculty of Pain Medicine, Australian and New Zealand College of Anaesthetists (FFPMANZCA)
1999	Fellow appointment at West Australian Pain Management Centre, Sir Charles Gardiner Hospital, Perth, WA, Australia
	Fellow appointment with the Royal Flying Obstetrics & Gynaecological Service, Roma, QLD, Australia
1993 - 1999	Anaesthetic Registrar, John Hunter Hospital Newcastle NSW, Fellow of Australian and New Zealand College of Anaesthetists (FANZCA)
1992 - 1993	Diploma of Anaesthesia, United Kingdom (DA(UK))
1990 - 1992	Resident at Gosford Hospital, Gosford, NSW, Australia
	Resident at Muswellbrook Practice NSW
1989	Bachelor of Medicine, Bachelor of Surgery (MBBS), Sydney University, Australia

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Certifications

- Fluoroscopy Radiation Safety Course [July 2022].
- Hunter Pain Specialists and Genesis Research Services are ISO9001 Management System Human Services Certified.
- Hamilton Day Surgery Centre is ISO9001 Management System Human Services Certified for interventional pain management procedures under intravenous sedation and general anaesthetic.
- Hunter Pain Specialists is Certified through the Faculty of Pain Medicine (ANZCA) as a Level 2 training unit for Pain Medicine Fellows.

External Current Appointments

- Deputy Chair – Pain Australia [July 2024]
- Interim Director - Australian Medicinal Cannabis Association Board [September 2022]
- Deputy Chair (External Engagement) – HMRI Brain Neuromodulation Research Program [2022]
- President - International Neuromodulation Society [2021]
- Conjoint Associate Professor – School of Biomedical Sciences and Pharmacy, College of Health, Medicine and Wellbeing, University of Newcastle, NSW, Australia [2021]
- Honorary Associate Professor - Department of Anaesthesiology, University of Hong Kong [July 2020 - renewed 2023]
- Member - Procedures Clinical Care Standard Working Group, Faculty of Pain Medicine [November 2018]
- Member - Procedures Working Group, Faculty of Pain Medicine (ANZCA) [March 2018]
- NSW Regional Representative - Professional Standards Committee, Faculty of Pain Medicine (ANZCA) [June 2017]
- Member - Research and Innovation Committee, Faculty of Pain Medicine (ANZCA) [January 2017]
- Conjoint Lecturer - School of Medicine and Public Health, College of Health, Medicine and Wellbeing, University of Newcastle, NSW, Australia [April 2015]
- Medical Advisory Committee Member - Lingard Private Hospital [February 2014]
- Consultant - Seqirus (a CSL company) [October 2013]
- Medical Advisory Committee Member - Hamilton Day Surgery Centre [2001]

External Past Appointments

- President – International Neuromodulation Society (INS) [2021-2024]
- President - Neuromodulation Society of Australia and New Zealand (NSANZ) [2014-2021]
- Medical Advisory Board Clinical Chair – Tilray, Australia & New Zealand [2019-2021]
- President - Cymbalta Pain Advisory Board [2013-2018]
- Founding Member and Board Member - Newcastle Anaesthetic Peri-operative Service (NAPS) [2002-2017]
- Examiner - Faculty Pain Medicine (ANZCA) [August 2013-2018]
- Examination Committee - Court of Examiners Faculty of Pain Management [May 2014-2018]

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- Department of Health - Member - Pain Management Clinical Committee [May-December 2018]
- Director at Large - International Neuromodulation Society [2017-2021]
- Consultant - Saluda Medical [February 2017-2021]
- Consultant - Mudjala Medical [October 2016-2017]
- Consultant - Nalu Medical [March 2016-2017]
- Consultant - Spine Thera [December 2015-2016]
- Scientific Advisory Board Member - Boston Scientific [March 2015-2017]
- Medical Advisory Board Member - Boston Scientific [March 2015-2017]
- Medical Advisory Board – Medtronic [2015-2018]
- Deputy Chair - NSW Regional Committee, Faculty of Pain Medicine (ANZCA) [March 2014-2023]
- Board Member - Hunter Postgraduate Medical Institute [January 2014-2018]
- Medical Advisory Board – Mundipharma [2013-2017]
- Scientific Advisory Board Member - Nevro Corp [November 2013-2014]
- Consultant - Boston Scientific [October 2013-2014]
- Consultant - Mainstay Medical [January 2012-2013]
- Scientific Advisory Board Member - Abbott (St Jude) [June 2011-2012]

Current Professional Memberships

- Fellow of the Australian & New Zealand College of Anaesthetists
- Fellow of the Faculty of Pain Medicine
- Australian Day Hospital Association [2005]
- Australian Medical Association [1999]
- Australian Pain Society [2000]
- International Neuromodulation Society [2003]
- International Association for the Study of Pain [2000]
- Neuromodulation Society of Australia and New Zealand [2003]
- Pain Australia [2014]
- Australasian Neuroscience Society [2021]
- Spine Society of Australia [2021]

Journal Editorial Boards

- Society Executive Advising Editor - Pain Medicine
- Section Editor - Pain Practice
- Editorial Board Member - Neuromodulation

Reviewer of Journals

- The Lancet – one of the world's most prestigious medical journals
- Neuromodulation: Technology at the Neural Interface – the International Neuromodulation Society

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- Pain Practice - official journal of the World Institute of Pain
- Pain Medicine - the American Academy of Pain Medicine in conjunction with the Australian and New Zealand College of Anaesthetists
- Pain and Therapy – an international, open-access, peer-reviewed, rapid publication journal publishing high-quality research on the use of pain therapies and devices
- Case Reports in Medicine – an open access, peer-reviewed journal publishing clinical case reports
- The Journal of Spinal Cord Medicine – published on behalf of the Academy of Spinal Cord Injury Professionals

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Conferences/Teaching/Professional Development (Previous 7 years)

2025

January North American Neuromodulation Society 27th Annual Scientific Meeting
30 January – 1 February; Orlando FL, USA

- Presentation: *Nociceptive Chronic Low Back Pain Effectively Treated with Ultra Low Frequency Neuromodulation.*
- Co-chair: *Bilateral Supraorbital and Occipital PNS in the Treatment of Primary Headaches: Learning the Technique and Understanding Its Complexities.*
- Presentation: *Indications for Bilateral Supraorbital Occipital PNS.*
- Co-chair: *Developing and Implementing Remote Monitoring for Spinal Cord Stimulation into the Care Path Continuum.*
- Presentation: *Learnings From Long-Term First-in-Human Use of SCS Remote Monitoring and Programming.*
- Presentation: *Redefining the Future of Pain Management: Potential for Remote Monitoring, AI-Driven Analytics and Big Data to Shape Future Delivery of Care.*

2024

January North American Neuromodulation Society 27th Annual Scientific Meeting
18-21 January; Las Vegas, NV, USA

- Plenary: *Impact of Remote Management on SCS Clinical Outcomes and Potential Opioid Sparing.*
- Presentation: *Patient sentiment: an emerging measure of pain-related mental state using language artificial intelligence.*
- Presentation: *Learnings From First-in-Human Use, Limitations, and Future Considerations.*
- Presentation: *Long-Term Study of SCS System With Multiphase Stimulation and Remote Device Management: Interim 12-Month Results.*
- Presentation: *Six-Month Results from a Prospective Multicenter Study of Multiphase SCS System With Remote Device Management.*

February MedEd Pain Webinar
15 February

- Webinar: *Redefining 'Real-World' Pain Solutions and Temgesic: Expert Roundtable.*

May ANZCA ASM 2024
3-7 May; Brisbane, QLD, Australia

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International Neuromodulation Society 16th World Congress
11-16 May; Vancouver, Canada

- Lecture: *Closing Address - Should We be Teaching our Children to Neuromodulate their Own Brains.*
- Plenary: *Welcome Address.*
- Moderator: *Plenary Session*.
- Presentation: *Inauguración IV Reunión Iberoamericana Neuromodulación.*
- Presentation: *Welcome Introduction and Overview of Neuromodulation.*
- Presentation: *INS Neurostimulation Appropriateness Consensus Committee 2024: An Update.*
- Presentation: *Restorative Neurostimulation for Mechanical Chronic Low Back Pain – A Disease Modifying Pain Medicine Therapy*.
- Presentation: *Prospective, Multicenter Study of Multiphase Spinal Cord Stimulation With Remote Device Management: 12-Month Safety and Effectiveness Results.*
- Presentation: *Multi-Center, Prospective Cohort of Intractable Chronic Low Back Pain Patients Treated With Restorative Neurostimulation – Outcomes From 5-Year Data.*
- Presentation: *A Prospective Study Assessing Initial Safety and Performance of an Implantable Novel Migraine Therapy System in Relieving, Interrupting, and Preventing Chronic Migraine (RELIEV-CM).*
- Moderator: *Opening Plenary Session.*
- Moderator: *Plenary Session 03*.
- Moderator: *Innovations in Neuromodulation–From Scientific Possibility to Viable Company – How to Make the Journey.*
- Moderator: *Giant of Neuromodulation Award and Champion of INS Award.*

June

18th World Congress of the International Society of Physical and Rehabilitation Medicine (ISPRM)
5 June; Sydney, NSW, Australia

- Speaker: *Patient selection for interventional approaches.*

HMRI Brain Neuromodulation Research Program Annual Symposium
28 June; Newcastle, NSW, Australia

- Speaker: *New Frontiers in Neuromodulation.*

July

Neuromodulation Society of Australia and New Zealand 17th Annual Scientific Meeting
19-21 July; Hobart, Tasmania, Australia

- Plenary: *Official Opening.*
- Plenary: *Australian Cloud Data Project - What does the real world data show?*

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- Presentation: *Current Australian Controversies in Neuromodulation.*

September World Congress of Stereotactic and Functional Neurosurgery
3-6 September; Chicago, USA

- Workshop: *Pain Surgery Workshop - SCS-closed loop stimulation.*

October PTN International Neuromodulation Pain Congress
17 October; Krakow, Poland

- Online Presentation: *Dorsal Horn Dendrite Stimulation.*

November Annual Scientific Meeting (ASM 2024) in Anaesthesiology
23-24 November; Hong Kong

- Lecture: *Peripheral Nerve Stimulation and Restorative Stimulation.*

2023

January North American Neuromodulation Society 26th Annual Scientific Meeting
12-15 January; Las Vegas, NV, USA

- Presentation: *First-in-Human Experience With an Implantable SCS System With Automated Daily Remote Monitoring and Remote Programming.*
- Moderator: *The Multiple Edges of the Conflict of Interest Sword.*

May RACS 91st Annual Scientific Congress
1-5 May; Adelaide, SA, Australia

- Keynote lecture: *Update on Neuromodulation for Surgeons.*

ANZCA ASM 2023
5-9 May; Sydney, NSW, Australia

- Presentation: *Pain drugs of the future: Ambroxol, pentoxifylline, ethyl pyruvate, D-methadone.*
- Workshop: *Every breath counts: The art of optimal breathing.*

June GP Online Event
3 June

- Presentation: *Understanding Neuromodulation: Where, when, and why it may be indicated.*

Executive Education Program in Neuromodulation (EEPIN) – Faculty
12-20 June; Online (City, University of London)

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August

Australian Medicinal Cannabis Symposium
12 August; Brisbane, QLD, Australia

- Presentation: *Ethical Prescribing of CBD.*

Neuromodulation Society of Australia and New Zealand 16th Annual Scientific Meeting
12-13 August; Brisbane, QLD, Australia

- Presentation: *Subwave 12 –Month Clinical Trial Results: Dorsal Horn Dendrite Stimulation.*
- Presentation: *Intrathecal Therapy: Where Does it Sit in the Modern Pain Practice?*

September

Pain Forum, NEX King Street Newcastle

- Presentation: *Advanced Pain Procedures* - with Dr Willem Volschenk, Dr Cillian Suiter, David Elvish (Physiotherapist), Dr Kylie Bailey (Psychologist), Dr Pek Ang (Psychiatrist).

October

Faculty of Pain Medicine Spring Meeting
6-8 October; Adelaide, SA, Australia

- Presentation: *Clinical, Legal and Ethical Aspects of Off-Label Prescribing.*

Hong Kong Symposium in Anaesthesia and Pain Medicine
21 October; Hong Kong

- Presentation: *Advances Options in Spinal Cord Stimulation.*

2022

January

North American Neuromodulation Society 25th Annual Scientific Meeting
13-15 January; Orlando, FL, USA

March

NSANZ Cadaver Workshop
5 March; Macquarie University, Sydney, NSW, Australia

- Laboratory lecturer: *The Neurostimulation Workshop.*
- Laboratory lecturer: *The Radiofrequency Workshop.*

May

International Neuromodulation Society Webinar
5 May

- Presentation: *The Neurostimulation Appropriateness Consensus Committee (NACC): Recommendations for Surgical Technique for Spinal Cord Stimulation.*

International Neuromodulation Society 15th World Congress
21-26 May; Barcelona, Spain

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- Presentation: *Spinal Cord Stimulation Targeting Non-Dorsal Column, Non-Axonal Structures - Can it be Done? Clinical Trial Results.*
- Presentation: *Etiology of Chronic Mechanical Low Back Pain*.
- Presentation: *Conflict of Interest and Industry: Is the Partnership Broken?*

July International Neuromodulation Society Webinar
7 July
- Presentation: *The Neurostimulation Appropriateness Consensus Committee (NACC): Recommendations on Best Practices for Cervical Neurostimulation.*

August Neuromodulation Society of Australia and New Zealand 15th Annual Scientific Meeting
13-14 August; Melbourne, VIC, Australia
- Presentation (plenary): *Neuromodulation in Acute Pain.*

September Brain Neuromodulation Research Program, "Finding the Pain Switch: Chronic Pain" Community Seminar.
28 September; Hunter Medical Research Institute, Newcastle, NSW, Australia
- Presentation: *Finding the Pain Switch: Neuromodulation.*

October International Neuromodulation Society (INS) 1st Congress of Indonesia Chapter
6-8 October; Komodo Island, Indonesia
- Presentation: *Neurostimulation for Diabetes and its Complications.*

Faculty of Pain Medicine Spring Meeting
14-15 October; Noosa, Australia
- Presentation: *Medicinal Cannabis: What's Happening in the Field Today?*

November Neuromodulation Society of the UK & Ireland Annual Scientific Meeting
4-5 November; Virtual Presentation
- Presentation: *Dorsal Horn Dendrite Stimulation.*
- Presentation: *Infection Control for Implantable Therapies – What is State of the Art?*

International Neuromodulation Society Third Interim Meeting
11-13 November; Mumbai, India
- Keynote presentation: *Delivering Neuromodulation in an Emerging Economy.*
- Presentation: *Future of SCS and Waveforms.*
- Workshop*: Indications and Device Selection for SCS.*

2021

January North American Neuromodulation Society Virtual Meeting

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15-16 January
- On-demand presentation: *Long Term Results of DRG Stimulation.*

IASP Virtual Series on Pain & Expo
28 January
- Speaker: *AusCann Symposium: What is the evidence for THC/CBD in chronic pain? A Critical Review.*

February Examiner ANZCA 2020 Fellowship Examinations OSCE/VIVA

March Auscann Virtual Presentation to GPs
25 March
- Presentation: *Use of Medicinal Cannabis for Pain Management.*

Seqirus (CSL Company)
31 March
- Presentation: *Does Strong Analgesic Equal Strong Opioid?*

April 41st Annual Scientific Meeting 2021 Australian Pain Society
19-20 April
- Contribution to 2021 Virtual Conference

May ANZCA ASM 2021
2 May
- Presentation: *The Latest in Neuromodulation*.

July International Neuromodulation Society Webinar
1 July
- Presentation: *The Anatomy and Physiology of Chronic Mechanical Back Pain.*

August Neuromodulation Society of Australia and New Zealand 14th Annual Scientific Meeting
14-15 August
- Presentation: *Conflicts of Interest in Neuromodulation.*
- Chair: *Trials, Research and Innovation.*

September 2nd Joint Congress of the International Neuromodulation Society European Chapters (e-INS)
2-4 September
- Presentation: *Peripheral Nerve Field Stimulation: Should We Put Our Percutaneous Lead(s) in the Spinal Canal AND/OR Subcutaneously?*

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2020

January

North American Neuromodulation Society 22nd Annual Meeting
23-26 January; Las Vegas, NV, USA

May

International Neuromodulation Society Webinar
7 May

- Panelist: *Neurostimulation Appropriateness Consensus Committee (NACC): Safety Guidelines for the Reduction of Severe Neurological Injury.*

November

PAIN2020 Virtual Conference
14-15 May

- Conference Convenor
- Presentation (plenary session): *Medicinal Cannabis – Getting it Right.*
- Presentation (plenary session): *Introducing Radiofrequency Capsulorrhaphy.*
- Moderator: *ReActiv8 Restorative Neurostimulation for Chronic Mechanical Low Back Pain.*

2019

January

North American Neuromodulation Society 21st Annual Meeting
17-20 January; Las Vegas, NV, USA

- Presentation: *Neural Response Profile: Objective Neurophysiological Measurements and Pain Relief in Spinal Cord Stimulation.*
- Presentation: *The Therapy is Failing: Overstimulation, Programming and Device Solutions.*

May

Webcast for Seqirus (bioCSL)
7 May; NSW, Australia

- Presentation: *First Do No Harm - Effective Opioid Use for Improved Patient Outcomes.*

International Neuromodulation Society 14th World Congress
25-30 May; Sydney, NSW, Australia

- INS Director-at-Large
- Chair (pre conference): *Innovations in Neuromodulation.*
- Presentation (plenary session): *Medical Device Monitoring: Where are We and Where do We Need to Go?*

July

Module 4 APAC (Abbott)
25-29 July; Singapore, Mandarin Oriental

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August	Stimwave Cadaver Course 11 August; Brisbane, QLD, Australia
	Medtronic Medical Advisory Board Meeting 19-21 August; Loews Minneapolis Hotel, Minneapolis, MN, USA
October	Faculty of Pain Medicine Spring Meeting 18-20 October; Byron Bay, NSW Australia
	Tilray Advisory Board Meeting 30 October; Sydney NSW Australia
November	NSANZ Strategic Planning Meeting 29 November; Melbourne, VIC, Australia
	Faculty of Pain Medicine Examinations – Examiner 30 November; Melbourne, VIC, Australia
December	Faculty of Pain Medicine Examinations – Examiner 1 December; Melbourne, VIC, Australia
	Saluda Medical Principal Investigators Meeting 10 December; Gladesville, NSW, Australia
	Faculty of Pain Medicine – Examination Pathways Meeting 15 December; Melbourne, VIC, Australia

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Research Experience

2024

Study ID STCM02 A Pivotal Study Evaluating the Safety and Efficacy of the ShiraTronics Migraine Therapy System in RELIEVing, Interrupting, and Preventing Chronic Migraine (RELIEV-CM2).
Phase: Pivotal Sponsor: Shiratronics *Ongoing*

Study ID APC201-001 A Phase I/IIa study to investigate the safety and efficacy of APC201 for the treatment of pain associated with osteoarthritis of the knee.
Phase: I/IIa Sponsor: Andros CRO: Southern Star Research *Ongoing*

Study ID SCI-03-RM Randomized, double-blind, sham-controlled trial to investigate combined occipital and supra-orbital neuromodulation in resistant migraine [RECLAIM Study]
Phase: II Sponsor: Salvia *Ongoing*

2023

Study ID PMH003 A Prospective, Open-Label, Multi-Center Trial to Evaluate the Safety and Effectiveness of Ultra Low Frequency Spinal Cord Stimulation in Patients with Chronic Low Back Pain.
Phase: N/A Sponsor: Presidio Medical *Ongoing*

Study ID XIN-XSTEM-101 A First-in-Human Open-Label Phase 1/2a Study to Evaluate Safety, Tolerability and Efficacy of a Single Intra-Articular Injection of Allogeneic Mesenchymal Stem Cells Selected for Integrin α10β1 (XSTEM-OA) in Adult Patients with Symptomatic Knee Osteoarthritis.
Phase: I/IIa Sponsor: Xindu Pty Lty / Xintela AB CRO: Greenlight Clinical *Ongoing*

Study ID 2019nCoV-CIC-E-201 A Phase 2, Randomized, Observer-Blinded Study to Evaluate the Safety and Immunogenicity of a SARS-CoV-2 rS Nanoparticle and Quadrivalent Hemagglutinin Nanoparticle Influenza Combination Vaccine With Matrix-M™ Adjuvant in Healthy Participants ≥ 50 to ≤ 80 Years of Age.
Phase: II Sponsor: Novavax CRO: PPD

Study ID ACW0008 XanaCIDD: A Double-Blind, Randomized, Placebo Controlled, Parallel-Group Trial to Assess the Safety, Tolerability, and Efficacy of Xanamem® in Adults With Major Depressive Disorder and Impaired Cognition.
Phase: II Sponsor: Actinogen

Study ID STCM01 A Pilot Study Assessing Preliminary Safety and Efficacy of The ShiraTronics Migraine Therapy System in RELIEVing, Interrupting, and Preventing Chronic Migraine (RELIEV-CM).
Phase: Pilot Sponsor: ShiraTronics *Ongoing*

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2022

Study ID BENEFIT-03 A First in Human Feasibility Study to Evaluate the Safety and Effectiveness of the BIOTRONIK Prospera™ SCS System With HomeStream™ Remote Management.
Phase: N/A Sponsor: Biotronik *Ongoing*

Study ID MDT21017 Evaluation of Long-term Patient Experience with a Medtronic Closed-Loop SCS System (ClosedLoop SCS study).
Phase: N/A Sponsor: Medtronic *Ongoing*

Study ID C3671006 A Phase 3, Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Safety, Tolerability, and Immunogenicity of Respiratory Syncytial Virus Prefusion F Subunit Vaccine when Coadministered with Seasonal Inactivated Influenza Vaccine in Adults ≥65 Years of Age.
Phase: III Sponsor: Pfizer

Study ID KOA-21-02 A Multiple Arm, Multicenter, Prospective, Randomized, Double-Blind, Placebo-Controlled, Parallel-Arm, Phase 2 Study of Intra-Articular Administration of an Allogeneic Human Placental Tissue Particulate (PTP-001) for the Treatment of Knee Osteoarthritis.
Phase: II Sponsor: Bioventus LLC

Study ID SR419 A Phase II, Randomized, Double-Blind, Placebo-Controlled, Multicenter, Crossover Study to Assess the Efficacy, Safety, and Tolerability of SR419 in Patients with Postherpetic Neuralgia (PHN).
Phase: II Sponsor: SIMR Biotech

2021

Study ID CLNA043A12202 A 5-year, Randomized, Double-blind, Placebo-controlled, Multi-center Study Assessing the Efficacy, Safety, and Tolerability of Intra-articular Regimens of LNA043 Versus Placebo in Patients With Symptomatic Knee Osteoarthritis (ONWARDS).
Phase: IIb Sponsor: Novartis *Ongoing*

Study ID I4V-MC-JAJA A Randomized, Active-Controlled, Parallel Group, Phase 3b/4 Study of Baricitinib in Patients with Rheumatoid Arthritis.
Phase: IIIb/IV Sponsor: Eli Lilly and Company *Ongoing*

Study ID PMH005 Single-Arm, Multicenter, Study to Evaluate Safety and Efficacy of Ultra-Low Frequency Spinal Cord Stimulator in Subjects with Painful Diabetic Neuropathy.
Phase: I Sponsor: Presidio Medical CRO: Avania

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Study ID CLIN-PCL-007873 Freshwater: A prospective, multicentre, single-arm feasibility study examining novel treatment delivery of the Evoke Spinal Cord Stimulator (SCS) System to treat patients with chronic pain of the trunk and/or limbs.
Phase: Post-Market Sponsor: Saluda Medical CRO: Mobius Medical *Ongoing*

2020

Study ID TLC599A3005 A Phase 3, Randomized, Double-blind, Placebo- and Active controlled Study to Evaluate the Efficacy and Safety of TLC599 in Patients with Osteoarthritis of the Knee.
Phase: III Sponsor: Taiwan Liposome Company CRO: Premier Research

Study ID PMH-002 A Randomized, Controlled, Multi-Center, Non-inferiority Trial to Evaluate the Safety and Efficacy of Ultra-Low Frequency Spinal Cord Stimulation Compared to Traditional Spinal Cord Stimulation in Subjects with Chronic Back Pain with / without Leg Pain.
Phase: I Sponsor: Presidio Medical CRO: Avania

2019

Study ID RTB-101-204 A Multicenter, Randomized, Double Blind, Placebo-Controlled, Phase 3 Study to Determine if RTB101 Prevents Clinically Symptomatic Respiratory Illness in the Elderly.
Phase: III Sponsor: resTORbio CRO: Syneos Health

Study ID VAC18193 A Randomized, Double-blind, Placebo-controlled Phase 2b Study to Assess the Efficacy, Immunogenicity and Safety of an Ad26.RSV.preF-based Regimen in the Prevention of RT-PCR-confirmed RSV-mediated Lower Respiratory Tract Disease in Adults Aged 65 Years and Older.
Phase: IIb Sponsor: Janssen CRO: IQVIA

Study ID TOU-CIP-01 A Data Acquisition Study for the Tournicare Blood Pressure Monitor.
Phase: Pre-Market Sponsor: Tournicare CRO: Mobius Medical

Study ID GRS2018-006 A Prospective, Multicentre Study of Low Dose Targeted Drug Delivery (TDD) for Chronic Back Pain Patients who have Failed Spinal Cord Stimulation.
Phase: N/A Sponsor: Genesis Research Services CRO: Mobius Medical

Study ID PMH-001 Single-Arm, Multicenter, Study to Evaluate Safety and Efficacy of Low Frequency Spinal Cord Stimulator in Subjects with Low Back and/or Leg Pain.
Phase: First-in-Human Sponsor: Presidio Medical CRO: Five Corners

Study ID CA2019-01 OUS DENALI A Multi-Center, Prospective Clinical Trial of Spinal Cord Stimulation with Varying Parameters for the Treatment of Chronic Back and/or Leg Pain.
Phase: N/A Sponsor: Nevro CRO: Five Corners *Ongoing*

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Study ID ILS-CIP-002 Buffered GEnipin Microinvasive Device for Treatment of Low Back Pain from Degenerative Disc Disease - CE Marking Safety and Efficacy Study (GEM-SE).
Phase: II Sponsor: Intralink-Spine CRO: Five Corners

Study ID CLIN-0012-STA01-19 A Double-Blind, Randomized, Placebo-Controlled Parallel-Group Study to Assess the Safety and Efficacy of Two Doses of SX600 Administered by Lumbosacral Transforaminal Epidural Injection in Patients with Radicular Pain Secondary to Lumbar Intervertebral Disc Herniation (SALIENT).
Phase: I/II Sponsor: SpineThera CRO: Neuroscience Trials Australia

Study ID FLU009 A Phase 2b Study to Determine the Efficacy of Candidate Influenza Vaccine MVA-NP+M1 in Adults aged 18 years and over.
Phase: IIb Sponsor: Vaccitech CRO: Clinical Network Services

Study ID GRS2017-001 A Prospective, Single-Blinded, Dose-Response Study of SCS Therapy using Subthreshold Waveform Patterns in Patients with Chronic Neuropathic Low Back Pain
Phase: N/A Sponsor: Genesis Research Services CRO: Five Corners

Study ID A7007 A Global Registry to Evaluate Long-Term Effectiveness of Neurostimulation Therapy for Pain (RELIEF-2).
Phase: Post-Market Sponsor: Boston Scientific

2018

Study ID USYD CRPS PDN Immune profiling of peripheral blood mononuclear cells from patients with Complex Regional Pain Syndrome and Diabetic Peripheral Neuropathic Pain using mass cytometry.
Phase: N/A Sponsor: Genesis Research Services

Study ID CEMA401A2202 A double-blind, placebo-controlled, randomized trial to determine the safety and efficacy of EMA401 100 mg b.i.d. in reducing 24-hour average pain intensity score in patients with painful diabetic neuropathy (EMPADINE).
Phase: II Sponsor & CRO: Novartis

Study ID LDS-102 A Phase II, Double-Blind, Placebo-Controlled Clinical Study to Evaluate the Efficacy and Safety of topical Lidocaine Spray in Patients with Postherpetic Neuralgia.
Phase: II Sponsor: Andros Pharmaceuticals CRO: Novotech

2017

Study ID TLC559A2003 A Phase IIa, Randomized, Double-blinded, Placebo-controlled, Dose-finding Study for Single-Dose Administration of TLC599 in Patients with Osteoarthritis (OA) of Knee.

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Phase: IIa Sponsor: Taiwan Liposome Company CRO: Novotech

Study ID 950057 ReActiv8 Implantable Neurostimulation System for Chronic Low Back Pain (ReActiv8-B).
Phase: Pre-Market Sponsor: Mainstay Medical CRO: Five Corners *Ongoing*

Study ID ZYN2-CL-005 A Phase 2A, Randomized, Double-Blind, Placebo-Controlled, Multiple Center, Multiple-Dose Study to Assess the Efficacy and Safety of ZYN002 Administered as a Transdermal Gel to Patients with Knee Pain due to Osteoarthritis.
Phase: IIa Sponsor: Zynerba

Study ID A4091058 A Phase 3 Randomized, Double-blind, Active-controlled, Multicenter Study Of The Long-term Safety And Efficacy Of Subcutaneous Administration Of Tanezumab In Subjects With Osteoarthritis Of The Hip Or Knee.
Phase: III Sponsor: Pfizer

Study ID MT-GPRT-KOA01 A randomised, double-blind using blinded evaluator, placebo and active controlled, pilot study to evaluate the safety and efficacy of intra articular administration of Articul One in patient with symptomatic primary knee osteoarthritis.
Phase: II Sponsor: Medytox CRO: Clinical Network Services

2016

Study ID SCLSH1502 Avalon: A prospective study evaluating the safety and performance of Saluda Medical's Evoke™ Spinal Cord Stimulation System incorporating feedback control to treat patients with chronic pain of the trunk and limbs.
Phase: Pre-Market Sponsor: Saluda Medical CRO: Mobius Medical

Study ID AXS02-K301 COAST-1: Clinical Knee Osteoarthritis Symptom Treatment 1 Study
A Randomized, Double-blind, Placebo-controlled Trial to Assess the Efficacy and Safety of AXS-02 (Disodium Zoledronate Tetrahydrate) Administered Orally to Subjects with Knee Osteoarthritis Associated with Bone Marrow Lesions.
Phase: III Sponsor: Axsome Therapeutics

Study ID AXS02-301 CREATE-1: A Randomized, Double-blind, Placebo-controlled Study to Assess the Efficacy and Safety of AXS-02 (Disodium Zoledronate Tetrahydrate) Administered Orally to Subjects with Complex Regional Pain Syndrome Type I (CRPS-I).
Phase: III Sponsor: Axsome Therapeutics

Study ID CA2013 OUS ULN Multi-Centre, Prospective Clinical Trial of the Senza™ Spinal Cord Stimulation (SCS) System in the Treatment of Chronic Upper Limb and Neck Pain.

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Phase: N/A Sponsor: Nevro

Study ID FX006-2014-008 A Double-Blind, Randomized, Single-Dose Study to Assess the Safety and Efficacy of FX006 for the Treatment of Pain in Patients With Osteoarthritis of the Knee.
Phase: III Sponsor: Flexion Therapeutics

2015

Study ID POH035-13 A Randomized, Double-Blind, Crossover, Phase IIa Study Comparing a Single-Application TPM®/Oxycodone Patch versus Vehicle Patch in the Topical Treatment of Patients with Postherpetic Neuralgia.
Phase: IIa Sponsor: Phosphagenics

Study ID COR1.1 A Multi centre, Randomized, Double-blind Study to Evaluate the Safety and Efficacy of Hydros and Hydros-TA Joint Therapies for Management of Pain Associated with Osteoarthritis in the Knee.
Phase: III Sponsor: Carbylan Therapeutics

2014

Study ID 950002 Investigation of the ReActiv8® Implantable Stimulation System for Chronic Low Back Pain (ReActiv8-A).
Phase: Pre-Market Sponsor: Mainstay Medical CRO: Five Corners *Ongoing*

Study ID A7007 A Global Registry to Evaluate Long-Term Effectiveness of Neurostimulation Therapy for Pain (RELIEF).
Phase: Post-Market Sponsor: Boston Scientific

Study ID AUX-CC-871 A randomized, double-blind, placebo-controlled study of the safety and efficacy of AA4500 for the treatment of adhesive capsulitis of the shoulder.
Phase: IIb Sponsor: Auxilium Pharmaceuticals CRO: Novotech

Study ID SMCSh10 A feasibility study evaluating the Saluda SCS system incorporating feedback control using Evoked Compound Action Potentials (ECAP) to aid in the accurate positioning of Spinal Cord Stimulation (SCS) leads.
Phase: Pre-Market Sponsor: Saluda Medical

Study ID C-13-03 BURST Pre-Market Clinical Study.
Phase: Pre-Market Sponsor: St Jude Medical

2013

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Study ID 2012-03-699 A Multicenter Prospective Observational Study on the Safety and Efficacy of High Frequency Spinal Cord Stimulation in Complex Regional Pain Syndrome Patients.
Phase: Post-Market Sponsor: Hunter Pain Clinic (Nevro)

Study ID SPStim: Whisper2013 An investigation into the therapeutic effect of electrical impulses with short pulse (SP) width on pain relief and quality of the spinal cord stimulation (SCS) in patients with intractable back and / or leg pain.
Phase: N/A Sponsor: Boston Scientific

Study ID A5004 - OPTIONS Precision Spectra™ Neurostimulator System for the Treatment of Chronic Intractable Pain of the Trunk and/or Limbs.
Phase: N/A Sponsor: Boston Scientific

Study ID 178-CL-102 A Randomized, Double-Blind, Parallel-Group, Active-Controlled, Multi-center Study to Evaluate the Long-Term Safety and Efficacy of Combination of Solifenacin Succinate with Mirabegron Compared to Solifenacin Succinate and Mirabegron Monotherapy in Subjects with Overactive Bladder.
Phase: III Sponsor: Astellas

Study ID 178-CL-101 A Randomized, Double-Blind, Parallel-Group, Placebo- and Active- Controlled, Multi-center Study to Evaluate the Efficacy, Safety and Tolerability of Combinations of Solifenacin Succinate and Mirabegron Compared to Solifenacin Succinate and Mirabegron Monotherapy in the Treatment of Overactive Bladder.
Phase: III Sponsor: Astellas

Study ID 1.02.7007 SubQStim: Interventional, Prospective, Multicenter, Randomized, Parallel-arm Study to Compare the Effectiveness of Peripheral Nerve Stimulation (PNS) Utilizing a Subcutaneous Lead Implant Technique (SQS) Plus Optimized Medical Management (OMM) Versus OMM Alone in Patients Suffering From Back Pain Due to Failed Back Surgery Syndrome (FBSS).
Phase: IV Sponsor: Medtronic

Study ID CI-10-029-ID-SC SCS Heart Study- Spinal Cord Stimulation for heart Failure as a Restorative Treatment.
Phase: First-in-Human Sponsor: St Jude Medical

Study ID RHGDF-5-02 A Phase I/IIa, Multicenter, Open-label, Clinical Trial to Evaluate the Safety, Tolerability and Preliminary Effectiveness of Single Administration Intradiscal rhGDF-5 for the Treatment of Early Stage Lumbar Disc Degeneration.
Phase: I/IIa Sponsor: DePuy Spine Inc CRO: Janssen-Cilag

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Study ID V89_04 and V89_13 A Randomized, Observer-Blind with Single-Blind Booster, Multi Centre, Study to Evaluate Safety, Tolerability and Immunogenicity of an Adjuvanted Cell Culture-Derived H5N1 Subunit Influenza Virus Vaccine at Two Different Formulations in Healthy Adult and Elderly Subjects.
Phase: II Sponsor and CRO: Novartis

2012

Study ID C-09-01 Partnership for Advancement in Neuromodulation (PAIN): A Prospective Clinical Outcomes Registry.
Phase: Post-Market Sponsor: St Jude Medical

Study ID AUX-CC-867 An Open-label Historically Controlled Study to Assess the Safety and Efficacy of Two Concurrent Injections of AA4500 in Adult Subjects with Multiple Dupuytren's Contractures with Palpable Cords.
Phase: IIIb Sponsor: Auxilium Pharmaceuticals CRO: Novotech

Study ID A7002 Precision High-Rate Sub-perception Spinal Cord Stimulation for the Treatment of Chronic Intractable Pain.
Phase: N/A Sponsor: Boston Scientific

Study ID OXN3506 A randomised, double-blind, double-dummy, parallel-group multicentre study to demonstrate improvement in symptoms of constipation and noninferiority in analgesic efficacy in subjects with non-malignant or malignant pain that requires around-the-clock opioid therapy taking 50/25 – 80/40 mg twice daily as oxycodone/naloxone prolonged release (OXN PR) tablets compared to subjects taking 50 - 80 mg twice daily oxycodone prolonged release (OxyPR) tablets alone.
Phase: III Sponsor: Mundipharma

Study ID FX006-2011-001 A Double Blind, Randomised, Parallel Group, Dose-Ranging Study Comparing FX006 to Commercially Available Triamcinolone Acetonide Injectable Suspension in Patients with Osteoarthritis of the Knee.
Phase: II Sponsor: Flexion Therapeutics CRO: Novotech

Study ID 02-SMI-2010 A Prospective Trial to Assess the Safety and Performance of the Spinal Modulation Neurostimulator System in the Treatment of Chronic Pain
Phase: N/A Sponsor: Spinal Modulation CRO: Five Corners

Study ID TH1124 A Multi-Centre, Randomised, Double-Blinded, Placebo Controlled, Parallel Group, Multiple Dose Study of the Efficacy of 8.75mg Flurbiprofen Spray in the Relief of Sore Throat due to URTI.
Phase: III Sponsor: Reckitt Benckiser CRO: Novotech

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Study ID F1J-EW-HGMQ Use of Duloxetine or Pregabalin in Monotherapy versus Combination Therapy of Both Drugs in Patients with Painful Diabetic Neuropathy "The COMBO – DN" (Combination vs Monotherapy of Pregabalin and duloxetine in Diabetic Neuropathy).
Phase: IIIb Sponsor: Eli Lilly CRO: Parexel

2011

Study ID BUP3029 Efficacy and safety of Transdermal Buprenorphine (Norspan BTDS) and placebo in patients with Diabetic Peripheral Neuropathic Pain (DPNP).
Phase: IIIb Sponsor & CRO: Mundipharma

Study ID A3191172 A Randomized, Double Blind, Parallel-Group Study of Cardiovascular Safety in Osteoarthritis or Rheumatoid Arthritis Patients with or At High Risk for Cardiovascular Disease Comparing Celecoxib with Naproxen and Ibuprofen.
Phase: IV Sponsor: Pfizer CRO: Quintiles

Study ID HMX3501 A confirmatory, placebo-controlled, randomised, double-blind, single dummy, parallel group, ratio-finding study in constipated pain patients to establish an optimal Hydromorphone – naloxone ratio with an improved bowel function and a comparable analgesic efficacy compared to Hydromorphone alone.
Phase: II/III Sponsor: Mundipharma CRO: Parexel

2010

Study ID S2-3.3.013 A Randomised, Double-Blinded Study to Assess Safety, Immunogenicity, and Lot Consistency of Solvay's Cell Derived Influenza Vaccine.
Phase III Sponsor: Solvay Biologicals

Study ID 3200K1-3358-WW Open-label study to evaluate the Long-Term Safety of Subcutaneous MOA-728 for Treatment of Opioid-Induced Constipation in Subjects with Non-malignant Pain.
Phase: III Sponsor: Wyeth

Study ID BUP3026-A1 A Multicentre, Randomised, Double-Blind, Parallel Group Comparison of The Efficacy and Safety of Transdermal Buprenorphine (Norspan® TDS) And Placebo in Participants with Post Herpetic Neuralgia.
Phase: III/IV Sponsor: Mundipharma CRO: DataPharm

Study ID H9B-MC-BCDH Dose-Ranging Study of Multiple Subcutaneous Doses of LY2127399, an Anti-BAFF Human Antibody, in Participants with Active Rheumatoid Arthritis despite Ongoing Methotrexate Therapy.

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Phase: II Sponsor: Eli Lilly and Company CRO: Omnicare Clinical Research

2009

Study ID TH0819 A multi-multi centre, randomised, double-blind, placebo-controlled, parallel group, multiple dose, study of the efficacy of 8.75mg Flurbiprofen micro granules in the relief of sore throat due to upper respiratory tract infection.
Phase: III Sponsor: Reckitt Benckiser CRO: Novotech2009

Study ID DCF-006 A randomised, double-blind, placebo-controlled study of the efficacy and safety of a diclofenac sodium patch for the topical treatment of acute pain due to mild to moderate soft tissue injuries.
Phase: III Sponsor: Cerimon Pharmaceuticals CRO: Novotech

Study ID MKN106762 A Double-Blind Placebo-Controlled study of the efficacy and safety of the p38 Map kinase inhibitor SB681323 in patients with neuropathic pain following nerve trauma.
Phase: II Sponsor: GlaxoSmithKline

2008

Study ID R331333PAI3011 A Randomised Double-Blind, Placebo-and-Active-Control, Parallel-arm, Phase III Trial with Controlled Adjustment of Dose to Evaluate the Efficacy and Safety of CG5503 Extended –Release (ER) in Subjects with Moderate to Severe Chronic Low Back Pain.
Phase: III Sponsor: Janssen-Cilag CRO: Kendle

Study ID R331333PAI3008 A Randomised Double-Blind, Placebo-and-Active-Control, Parallel-arm, Phase III Trial with Controlled Adjustment of Dose to Evaluate the Efficacy and Safety of CG5503 Extended –Release (ER) in Subjects with Moderate to Severe Pain Due to Osteoarthritis of the Knee.
Phase: III Sponsor: Janssen-Cilag CRO: Kendle

Study ID A3200479 A Study to Compare the Preference for Two Contrasting Paracetamol Formulations In The Management of Osteoarthritis Pain.
Phase: IV Sponsor: GlaxoSmithKline CRO: Omnicare Clinical Research

2007

Study ID P-AD337-021 A Multi-Centre, Randomised, Double-Blind, Placebo Controlled, Parallel Group Exploratory Study to Investigate the Efficacy, Safety and Tolerability of AD 337 in the Treatment of Fibromyalgia in Female Subjects.
Phase: II Sponsor: Sosei CRO: Trident Clinical Research

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Study ID SB-767905/014 A Randomized, Double-Blind, Placebo- Controlled, Multicentre Phase III Study to Evaluate the Long-Term Safety of Alvimopan 0.5mg Twice Daily for 12 Months for the Treatment of Opioid-Induced Bowel Dysfunction in Adults taking Opioid Therapy for Persistent Non-Cancer Pain.
Phase: III Sponsor & CRO: Cubist Pharmaceuticals, GlaxoSmithKline

2006

Study ID SB-767905/013 A Randomized, Double-Blind, Placebo-Controlled, Multicentre Phase III Study to Evaluate the Efficacy and Safety of Alvimopan 0.5mg Once Daily and 0.5mg Twice Daily for12 weeks for the Treatment of Opioid-Induced Bowel Dysfunction in Adults taking Opioid Therapy for Persistent Non-Cancer Pain.
Phase: III Sponsor & CRO: Cubist Pharmaceuticals, GlaxoSmithKline

Study ID ABD 106239 An Observational Survey to Characterize the Burden of Illness Associated with Laxative Use in Subjects using Opioids for the Management of Persistent Non-Cancer Pain.
Phase: N/A Sponsor & CRO: GlaxoSmithKline

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Conference Abstracts

2025

North American Neuromodulation Society 28th Annual Meeting, Orlando, FL, USA.

- **12-month Outcomes with a flexible Closed Loop Spinal Cord Stimulation System.**
  Vahid Mohabbati, Richard Sullivan, Peter Georgius, James Yu, Charles Brooker, Malgorzata Straka, Andrew Cleland, Glenn Butler, Michelle Knight, Nancy McClelland, Xiaoxi Sun, Abi Franke, Marc Russo.
- **Flexible Programming with an ECAP-sensing, Closed-loop Spinal Cord Stimulation System**.
  Vahid Mohabbati, Richard Sullivan, James Yu, Peter Georgius, Charles Brooker, Malgorzata Straka, Glenn Butler, Michelle Knight, Andrew Cleland, Nancy McClelland, Filippo Coletti, Abi Franke, Marc Russo.
- **Nociceptive Chronic Low Back Pain Effectively Treated with Ultra Low Frequency Neuromodulation.**
  Marc Russo, Matthew Green, Paul Verrills, Willem Volschenk, Elizabeth Brooks, Andrew Sullivan, Brad Sheehan.
- **Novel Neuromodulation System for the Treatment of Chronic Migraine: Preliminary Results from the RELIEV-CM Study.**
  Matthew Green, James Yu, John Salmon, Marc Russo, Salim Hayek, Steven M. Falowski, Samer Narouze.
- **Optimizing SCS Therapy Using Objective Physiologic ECAP Biomarkers: Real-World Experience.**
  Marc Russo, Jan-Willem Kallewaard, Nathan Taylor.
- **Proactive Remote Management Enables Rapid SCS Optimization: Interim 24-Month Results from a Prospective Multicenter Study.**
  Marc Russo, James Yu, Kasra Amirdelfan, Leonardo Kapural, Paul Verrills.
- **Remote SCS Management Reduces Patient Burdens and Improves Care: Interim 24-Month Study Results.**
  Marc Russo, James Yu, Kasra Amirdelfan, Leonardo Kapural, Paul Verrills.
- **At-Home Daily Pain Intensity and Sleep Quality: Interim 24-Month Results from a Prospective Multicenter Study.**
  Marc Russo, James Yu, Kasra Amirdelfan, Leonardo Kapural, Paul Verrills.
- **Developing The Postgraduate Certificate Course in Neuromodulation and Pain Management - University Accreditation in Neuromodulation.**
  Kavita Poply, Marc Russo, Ahmed Raslan, Alaa Abd-Elsayed, Ashish Gulve, Anjum Bux, Amitabh Gulati, Babita Ghai, Ganesan Baranidharan, Christopher Gilligan, Corey Hunter, Georgios Matis, Frank Huygen, James Fitzgerald, Jan-Willem Kallewaard, Hemant Kalia, Kiran Patel, Kliment Gatzinksy, Lawrence Poree, Manjit Matharu, Manohar Sharma, Michael Hart,

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Philippe Rigoard, Sadiq Bhayani, Salim Hayek, Sam Eldabe, Sarah Love-Jones, Simon Thomson, Stana Bojanic, Timothy R. Deer, Vivek Mehta.

- **Evidence for Long Term, Enduring Real-World Effectiveness for 10 kHz SCS in an Australian Cohort.**
  Dom Bailey, Frank Thomas, John Prickett, Liam Pritchard, Marc Russo, John Salmon, Geoff Speldewinde, Simon Tame, Brett Todhunter, Paul Verrills.
- **Long-Term Study of SCS System with Multiphase Stimulation and Remote Device Management: Interim 24-Month Results.**
  Marc Russo, James Yu, Kasra Amirdelfan, Leonardo Kapural, Paul Verrills.

2024

American Headache Society 66th Annual Scientific Meeting, San Diego, CA, USA.

- **A Pilot Study Assessing Preliminary Safety and Efficacy of an Implantable Novel Migraine Therapy System in RELIEVing, Interrupting, and Preventing Chronic Migraine (RELIEV-CM).**
  Brian Grosberg, Peter J Goadsby, Matthew Green, John Salmon, James Yu, Marc Russo, Richard B Lipton.

North American Neuromodulation Society 27th Annual Meeting, Las Vegas, NV, USA.

- **Learnings From First-in-Human Use, Limitations, and Future Considerations.**
  Marc Russo, James Yu, Vahid Mohabbati, Kasra Amirdelfan, Leonardo Kapural, Paul Verrills.
- **Improvements in Health-Related Quality of Life in Chronic Back/Leg Pain Patients with Closed-loop SCS.**
  Marc A Russo, Richard Sullivan, James Yu, Peter Georgius, Charles D Brooker, Malgorzata Straka, et al.
- **Post-Graduate Certification in Neuromodulation and Pain Management (PGCert) – University Accreditation in Neuromodulation.**
  Gaurav Bajaj, Marc Russo, Serge Nikolic, Habib Ellamushi, James J Fitzgerald, Sam Eldabe, et al.
- **Patient Sentiment: an Emerging Measure of Pain-Related Mental State Using Language Artificial Intelligence.**
  Marc Russo, James Yu, Vahid Mohabbati, Kasra Amirdelfan, Leonardo Kapural, Paul Verrills.
- **Long-Term Study of SCS System With Multiphase Stimulation and Remote Device Management: Interim 12-Month Results.**
  Marc Russo, James Yu, Vahid Mohabbati, Kasra Amirdelfan, Leonardo Kapural, Paul Verrills.
- **Six-Month Results from a Prospective Multicenter Study of Multiphase SCS System With Remote Device Management.**
  Marc Russo, James Yu, Vahid Mohabbati, Kasra Amirdelfan, Leonardo Kapural, Paul Verrills.

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- **At-Home Daily Pain Intensity and Sleep Quality: 6-Month Results from a Prospective Multicenter Study.**
  Marc Russo, James Yu, Vahid Mohabbati, Kasra Amirdelfan, Leonardo Kapural, Paul Verrills.
- **Proactive Remote Device Management Enables Rapid SCS Optimization: 6-Month Results from a Prospective Multicenter Study.**
  Marc Russo, James Yu, Vahid Mohabbati, Kasra Amirdelfan, Leonardo Kapural, Paul Verrills.
- **Remote SCS Management Reduces Patient Burdens and Improves Care: Results from a Prospective Multicenter Study.**
  Marc Russo, James Yu, Vahid Mohabbati, Kasra Amirdelfan, Leonardo Kapural, Paul Verrills.
- **Study Results Demonstrating Feasibility of Novel Automated SCS Programming Platform.**
  Marc Russo, James Yu, Vahid Mohabbati, Kasra Amirdelfan, Leonardo Kapural, Paul Verrills.
- **Rationale for Dorsal Horn Dendrite Stimulation.**
  Marc Russo, Danielle Santarelli, Richard Nash, Brett Graham.

International Neuromodulation Society 16th World Congress, Vancouver, Canada.

- **Restorative Neurostimulation for Mechanical Chronic Low Back Pain – A Disease Modifying Pain Medicine Therapy.**
  Marc Russo.
- **Intrathecal Drug Delivery For Chronic Non-cancer Pain When Electrical Neuromodulation Has Failed.**
  Marc Russo, Brendan Moore, James O'Callaghan, Murray Taverner, John Monagle, Danielle M Santarelli.
- **Prospective, Multicenter Study of Multiphase Spinal Cord Stimulation With Remote Device Management: 12-Month Safety and Effectiveness Results.**
  Marc Russo, James Yu, Kasra Amirdelfan, Leonardo Kapural, Paul Verrills.
- **Multi-Center, Prospective Cohort of Intractable Chronic Low Back Pain Patients Treated With Restorative Neurostimulation – Outcomes From 5-Year Data.**
  Marc Russo, Christopher Gilligan.
- **A Prospective Study Assessing Initial Safety and Performance of an Implantable Novel Migraine Therapy System in Relieving, Interrupting, and Preventing Chronic Migraine (RELIEV-CM).**
  Marc Russo, Matthew Green, John Salmon, James Yu, Chris Gilligan, Robert Levy.

Neuromodulation Society of Australia and New Zealand 17th Annual Scientific Meeting, Hobart, Australia.

- **The Aβ Nociceptor Hypothesis.**
  Marc Russo, Danielle Santarelli.

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North American Neuromodulation Society 26th Annual Meeting, Las Vegas, NV, USA.

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- **Early Outcomes with the Medtronic Closed-Loop Spinal Cord Stimulation Study.**
  Vahid Mohabbati, Alan Nazha, Marc Russo, James Yu, Abby Skerker, Garrett Grenier, Charles Cain, Abi Franke.
- **Queen Mary University London Postgraduate Certification in Neuromodulation-Accreditation in Neuromodulation.**
  Kavita Poply, Phillippe Rigoard, Jan W Kallewaard, Frank JPM Huygen, Ashish Gulve, Ganesan Baranidharan, Sam Eldabe, James J Fitzgerald, Serge Nikolic, Stana Bojanic, Habib Ellamushi, Paresh K Doshi, Preeti Doshi, Babita Ghai, Marc Russo, et al.
- **A Novel Spinal Cord Stimulation Waveform Targeting the Dorsal Horn: 12-Month Clinical Trial Results.**
  Marc Russo, Willem Volschenk, Dominic Bailey, Danielle Santarelli, Brett Graham.

American Society of Interventional Pain Physicians 25th Annual Meeting, Washington, DC, USA.

- **Multiphase SCS With Remote Device Management: Interim Data.**
  Marc Russo, James Yu, Vahid Mohabbati, Kasra Amirdelfan, Leonardo Kapural, Paul Verrills.
- **In-Human SCS System with Daily Remote Monitoring/Programming.**
  Marc Russo, James Yu, Vahid Mohabbati, Kasra Amirdelfan, Leonardo Kapural, Paul Verrills.

RACS 91st Annual Scientific Congress, Adelaide, Australia.

- **Update on Neuromodulation for Surgeons.**
  Marc Russo.

Australian Pain Society 43rd Annual Scientific Meeting, Canberra, Australia.

- **Investigating Peripheral Immune Activation in Complex Regional Pain Syndrome Using Mass Cytometry.**
  Jackson Karrasch, Jayden O'Brien, Kevin Hu, Heeva Baharlou, Andrew Harman, Peter Drummond, Marc Russo, Peter Georgius, Paul J. Austin.

17th International Workshop on Langerhans cells and related myeloid cells in the skin, Paris, France.

- **Assessment of the Myeloid Cell Landscape in Human Chronic Pain Conditions.**
  Paul J. Austin, Jackson Karrasch, Jayden O'Brien, Yun Huang, Kevin Hu, Heeva Baharlou, Andrew Harman, Anthony Cunningham, Peter Drummond, Marc Russo, Peter Georgius.

American Society of Pain & Neuroscience 5th Annual Conference, Miami Beach, USA.

- **Daily Pain Intensity and Sleep Quality for SCS Patients in the At-Home Setting: Interim 6-Month Participant-Reported Outcomes from a Prospective Multicenter Study.**
  Marc Russo, James Yu, Vahid Mohabbati, Kasra Amirdelfan, Leonardo Kapural, Paul Verrills.
- **An Implantable SCS System With Multiphase Stimulation and Remote Device Management: Interim 6-Month Study Results.**
  Marc Russo, James Yu, Vahid Mohabbati, Kasra Amirdelfan, Leonardo Kapural, Paul Verrills.

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- **Proactive Automatic Daily Remote Monitoring and Remote Programming Enable Rapid Optimization of SCS: Interim Results from a Prospective Multicenter Study.**
  Marc Russo, James Yu, Vahid Mohabbati, Kasra Amirdelfan, Leonardo Kapural, Paul Verrills.
- **An Implantable SCS System With Automatic Daily Remote Monitoring and Remote Programming: First-In-Human Experience.**
  Marc Russo, James Yu, Vahid Mohabbati, Kasra Amirdelfan, Leonardo Kapural, Paul Verrills.
- **Primary Outcomes of the Closed-Loop SCS Study.**
  Vahid Mohabbati, Richard Sullivan, Marc Russo, Peter Georgius, Charles Brooker, Andrew Cleland, Abby Skerker, Nancy McClelland, Charles Cain, Abi Franke, James Yu.

Neuromodulation Society of Australia and New Zealand 16th Annual Scientific Meeting, Brisbane, Australia.

- **Retrospective Review of Radiation Exposure of a High-Volume Interventional Pain Physician.**
  Marc Russo, Danielle Santarelli.
- **Four-Year Durability of Restorative Neurostimulation Effectiveness in Patients with Chronic Low Back Pain and Impaired Neuromuscular Control of Lumbar Spine Stability.**
  Marc Russo, Christopher Gilligan, on behalf of the ReActiv8-B study investigators.

3rd Joint Congress on the INS European Chapters (e-INS), Hamburg, Germany.

- **Effectiveness and Durability of Restorative Neurostimulation in Patients with Chronic Low Back Pain and Degenerative Spine Pathologies without Indications for Surgery.**
  Marc Russo, Meredith Langhorst, William Klemme.

Pacific Spine and Pain Society Annual Conference, Ko'Olina, O'Ahu, HI, USA.

- **Prospective Multicenter Study of Implantable SCS System With Remote Device Management and Multiphase Stimulation: Interim 6-Month Safety and Effectiveness.**
  Marc Russo, James Yu, Vahid Mohabbati, Kasra Amirdelfan, Leonardo Kapural, Paul Verrills.
- **Implantable SCS System With Automatic Daily Remote Monitoring and Remote Programming for Rapid SCS Optimization.**
  Marc Russo, James Yu, Vahid Mohabbati, Kasra Amirdelfan, Leonardo Kapural, Paul Verrills.

American Society of Regional Anesthesia and Pain Medicine (ASRA) 22nd Annual Pain Medicine Meeting, New Orleans, USA.

- **At-Home Daily Pain Intensity and Sleep Quality: Interim 6-Month Results from a Prospective Multicenter Study.**
  Leonardo Kapural, Marc Russo, James Yu, Vahid Mohabbati, Kasra Amirdelfan, Paul Verrills.
- **Interim Six-Month Results from a Prospective Multicenter Study of Multiphase SCS System With Remote Device Management.**
  Leonardo Kapural, Marc Russo, James Yu, Vahid Mohabbati, Kasra Amirdelfan, Paul Verrills.

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- **Proactive Remote Device Management Enables Rapid SCS Optimization: Interim 6-Month Results from a Prospective Multicenter Study.**
  Leonardo Kapural, Marc Russo, James Yu, Vahid Mohabbati, Kasra Amirdelfan, Paul Verrills.
- **An Implantable SCS System With Automatic Daily Remote Monitoring and Remote Programming: First-In-Human Experience.**
  Leonardo Kapural, Marc Russo, James Yu, Vahid Mohabbati, Kasra Amirdelfan, Paul Verrills.
- **Closed-Loop SCS Therapy Outcomes at 3-months with Waveforms Optimized per Patient Preference.**
  Ashwini Sharan, Vahid Mohabbati, Richard Sullivan, James Yu, Peter Georgius, Charles D Brooker, Malgorzata Straka, Andrew Cleland, Glenn Butler, Michelle Knight, Zachary Kyle-Little, Justin Morey, Nancy L McClelland, Charles Cain, Abi Franke, Marc A Russo.

2022

Pacific Spine and Pain Society Annual Conference, Las Vegas, NV, USA.

- **Protocol for a Novel First-In-Human Study to Evaluate a Multiphase Spinal Cord Stimulation System With Remove Device Management.**
  Paul Verrills, Kasra Amirdelfan, Leonardo Kapural, Marc Russo.

Neuromodulation Society of Australia and New Zealand (NSANZ) 15th Annual Scientific Meeting, Melbourne, Australia.

- **Three-Year Durability of Improvements in Patients with Mechanical Chronic Low Back Pain Treated with Restorative Neurostimulation: Long-Term Pivotal Trial Follow-Up.**
  Marc Russo, on behalf of the ReActiv8-B study group.

Australian and New Zealand Society for Immunology Inc (ASI NSW-ACT) Joint Branch Meeting, Bowral, Australia.

- **Using high-dimensional mass cytometry to characterise the peripheral blood of diabetic neuropathic pain patients: Reflections for new CyTOF users.**
  Jayden O'Brien, Helen McGuire, Diana Shinko, Barbara Fazekas de St Groth, Marc Russo, Dominic Bailey, Danielle Santarelli, Katie Wynne, Paul Austin.

International Neuromodulation Society 15th World Congress (INS), Barcelona, Spain.

- **Spinal Cord Stimulation Targeting Non-Dorsal Column, Non-Axonal Structures – Can It Be Done? Clinical Trial Results.**
  Marc Russo, Willem Volschenk, Brett Graham, Danielle Santarelli.
- **Pain Relief Outcomes Using Neuromodulation Systems With Multiple Waveform And Programming Modalities: An Australian Case-series.**
  Peter Georgius, Thierry Vancaillie, Bruce Mitchell, David Holthouse, John Monagle, Matthew Green, Marc Russo, James Yu, Lilly Chen, Roshini Jain.

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- **ECAP-controlled Spinal Cord Stimulation in Non-surgical Refractory Back Pain: Evoke and Avalon Study Subgroup Analysis at 12-months.**
  Timothy Deer, Marc Russo, Corey Hunter, Sean Li, Erika Petersen, Jacqueline Weisbein, Nicole Soliday, Angela Leitner, Steven Falowski.
- **Long-term Opioid-sparing Effects of ECAP-controlled Closed-loop Spinal Cord Stimulation: Evoke and Avalon Study Results.**
  Steven Rosen, Todd Bromberg, Shrif Costandi, Michael Sprintz, Marc Russo, Lalit Venkatesan, Mena Mekhail, Nathan Taylor.

North American Neuromodulation Society 25th Annual Scientific Meeting, Orlando, FL, USA.

- **Pooled analysis of 10 kHz SCS in patients with failed neck surgical syndrome.**
  Kasra Amirdelfan, John Salmon, Ramsin Benyamin, Cong Yu, Thomas Yang, Richard Bundschu, Thomas Yearwood, B. Todd Sitzman, Marc Russo, Anand Rotte, Paul Verrills.
- **RCT: Ultra-Low-Frequency (ULF™) Waveform vs Traditional SCS in Temporary Trial for Nociceptive and Neuropathic Pain.**
  Marc Russo, Willem Volschenk, Matthew Green, Bruce Mitchell, Paul Verrills, Neels DuToit, Guy Buchanan, Andrew Sullivan, Michael Ackermann, Chris Dawson, Brad Sheehan.

2021

International Neuromodulation Society European Chapters (e-INS) 2nd Joint Congress (Virtual).

- **A New Spinal Cord Stimulation Paradigm to Activate the Dorsal Horn: 14 Week Clinical Trial Results.**
  Marc Russo, Willem Volschenk, Michael Holt, Danielle Santarelli.
- **Avalon Study: Long-Term Impact of Evoked Compound Action Potential (ECAP)-Controlled Closed-Loop Spinal Cord Stimulation (CL-SCS) on Pain, Patient Wellbeing and Clinical Practice.**
  Marc Russo.

Neuromodulation Society of Australia and New Zealand 14th Annual Scientific Meeting (Virtual).

- **High Responders with Closed-Loop SCS - The Effect of High Levels of Pain Relief on Patient Wellbeing.**
  Marc Russo, on behalf of the AVALON study investigators.

The Spine Intervention Society Annual Meeting (Virtual).

- **Multifidus-Sparing Radiofrequency Neurotomy for Lumbar Facet Joint Pain.**
  Marc Russo, Robert Wright, Cameron Gourlay, Willem Volschenk, Danielle Santarelli.

The British Pain Society Annual Scientific Meeting.

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- **Pain Relief Outcomes Using Neuromodulation Systems with Multiple Waveform and Programming Modalities: An Australian Case Series.**
  Thierry Vancaillie, Bruce Mitchell, David Holthouse, John Monagle, Matthew Green, Marc Russo, James Yu, Jing Wang, Roshini Jain.

North American Neuromodulation Society Virtual Meeting.

- **10 kHz SCS for Failed Neck Surgery Syndrome: Analysis of Data from Two Multicenter Studies.**
  Kasra Amirdelfan, Ricardo Vallejo, John Salmon, Ramsin Benyamin, Cong Yu, Thomas Yang, Richard Bundschu, Thomas Yearwood, Todd Sitzman, Marc Russo, Adele Barnard, Anand Rotte, Paul Verrills.
- **24-Month Avalon Study Data Indicates Improved Pain Reduction With Decreased Opioid Use.**
  Nastaran Hesam Shariati, Charles Brooker, Marc Russo, Nathan Taylor, Tillman Boesel, Richard Sullivan, Erin Hanson, Gerrit Gmel, Lawrence Poree, Lewis Holford, John L. Parker.
- **Four Year Treatment Durability and Effectiveness of Restorative Neurostimulation for Intractable Chronic Low Back Pain.**
  Sam Eldabe, Marc Russo, Bruce Mitchell, Matthew Green, Vivek Mehta, Ganesan Barani, Ashish Gulve, Jean Pierre Van Buyten, Kristiaan J. Deckers, Kris De Smedt, Iris Smet, Peter Georgius.
- **Improved Versatility and Frequency Pairing Capabilities with 10 kHz Spinal Cord Stimulation for Chronic Pain.**
  Marc Russo, Frank Thomas, John Prickett, Simon Tame, Richard Pendleton, Daniel Berge, Brett Todhunter, Richard Sullivan, Gavin Weekes, Geoff Speldewinde, James Yu, John Monagle, Michael Bassett, Tillman Boesel, Romil Jain, Tim Ho, Matthew Green, Neels DuToit, Paul Verrills, John Salmon, Brett Chandler, Daniel Bates, Lewis Holford, Nathan Taylor, Adele Barnard.
- **Pain Relief Outcomes Using Neuromodulation Systems with Multiple Waveform and Programming Modalities: An Australian Case-Series.**
  Peter Georgius, Bruce Mitchell, David Holthouse, John Monagle, Thierry Vancaillie, Marc Russo, Jing Wang.

2020

American Society of Interventional Pain Physicians Annual Meeting, Las Vegas, NV, USA.

- **Chronic Pain Outcomes Using a Neuromodulation System with Multiple Waveform and Programming Modalities in Australia.**
  Peter Georgius, Marc Russo, John Monagle, Jing Wang, Roshini Jain.

North American Neuromodulation Society 23rd Annual Meeting, Las Vegas, NV, USA.

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- **Avalon Study: Long-Term Impact of ECAP-Controlled Closed-Loop SCS on Pain, Patient Wellbeing and Clinical Practice.**
  Marc Russo, Charles Brooker, Richard Sullivan, Nathan Taylor, Lewis Holford, Tillman Boesel, Gerrit Gmel, Nastaran Shariati, Lawrence Poree, John Parker.
- **Improved Versatility and Frequency Pairing Capabilities with 10kHz SCS for the Treatment of Chronic Pain.**
  Adele Cassar, Marc Russo, Frank Thomas, Simon Tame, John Prickett, Richard Pendleton, Daniel Berge, Christina Keilar, Liam Pritchard, Adele Barnard.
- **10 kHz Spinal Cord Stimulation for Upper Limb and Neck pain: Australian Experience– Quality of Life Outcomes.**
  Adele Cassar, Paul Verrills, John Salmon, Marc Russo.
- **Targeting the Dorsal Horn - an Innovative Technique (SUBWAVE) and Early Clinical Trial Results.**
  Marc Russo, Dominic Bailey, Willem Volschenk, Mazyar Danesh, Danielle Santarelli.

2019

American Society of Interventional Pain Physicians Annual Meeting, Las Vegas, NV, USA.

- **Long-Term Results of ECAP-Controlled Closed-Loop SCS.**
  Jason Pope, Marc Russo, on behalf of the Avalon Study Investigators.

7th Minnesota Neuromodulation Symposium, Minneapolis, MN, USA.

- **Automated, Routine Monitoring of Neurophysiological Parameters in Spinal Cord Stimulation.**
  Nathan Taylor, Marc Russo, Abeer Khurram, Robert Gorman.

North American Neuromodulation Society 22nd Annual Meeting, Las Vegas, NV, USA.

- **A Prospective Global Registry of Real-World Outcomes Using Spinal Cord Stimulation Systems for Chronic Pain.**
  Richard Rauck, Simon Thomson, RELIEF Study Group, Rex Woon, Kristen Lechleiter, Roshini Jain.
- **Spinal Cord Stimulation Failures: Underlying Mechanisms and Clinical Outcomes.**
  Peter Staats, Marc Russo, Charles Brooker, Jason Pope, Milan Obradovic, John L Parker.
- **Neural Response Profile: Objective Neurophysiological Measurements and Pain Relief in Spinal Cord Stimulation.**
  Marc Russo, Charles Brooker, Nathan Taylor, Brian Hills, Abeer Khurram, John L Parker.
- **Effective Relief of Pain and Associated Symptoms with Closed-Loop Spinal Cord Stimulation System: Long-Term Results.**
  Charles Brooker, Marc Russo, Lawrence Poree, Michael J Cousins, Richard Sullivan, Nathan

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Taylor, Lewis Holford, Tillman Boesel, Rebecca Martin, Martine O'Beill, Erin Hanson, Nastaran Hesam Shariati, John L Parker.

International Neuromodulation Society 14th World Congress, Sydney, Australia.

- **Effective Relief of Pain and Associated Symptoms with Closed-Loop Spinal Cord Stimulation System: 18-Month Results.**
  Marc Russo, Charles Brooker, Lawrence Poree, Michael J Cousins, Richard Sullivan, Nathan Taylor, Lewis Holford, Tillman Boesel, Rebecca Martin, Martine O'Neill, Erin Hanson, Nastaran Hesam Shariati, John L Parker.

2018

American Society of Regional Anaesthesia and Pain Medicine 17th Annual Pain Medicine Meeting, San Antonio, TX, USA | California Society of Interventional Pain Physicians 9th Annual Meeting, Santa Barbara, CA, USA | New York & New Jersey Societies of Interventional Pain Physicians Annual Meeting, Jersey City, NJ, USA.

- **Automated, routine monitoring of neurophysiological parameters in spinal cord stimulation.**
- **Neural response profile: objective neurophysiological measurement of pain relief in spinal cord stimulation.**
- **Effective relief of pain and associated symptoms with closed-loop spinal cord stimulation system: 12-month results.**
- Charles Brooker, Marc Russo, Lawrence Poree, Michael J Cousins, Richard Sullivan, Nathan Taylor, Lewis Holford, Tillman Boesel, Rebecca Martin, Martine O'Neill, Erin Hanson, Nastaran Hesam Shariati, John L Parker.

North American Neuromodulation Society 21st Annual Meeting, Las Vegas, NV, USA.

- **Long-Term Results from the Avalon Study - Closed-Loop SCS using Evoked Compound Action Potentials.**
  Marc Russo, Timothy Deer, Lawrence Poree, Michael J Cousins, Charles Brooker, Richard Sullivan, Tillman Boesel, Nathan Taylor, Rebecca Martin, Martine O'Niell, John L Parker.
- **A Multi-Center, Prospective, Clinical Trial of High Frequency Spinal Cord Stimulation (HF-SCS) at 10 kHz in the Treatment of Chronic Upper Limb and Neck Pain.**
  Paul Verrills, John Salmon, Marc Russo.
- **An investigation into the therapeutic effect of electrical impulses with short pulse (SP) width on pain relief and quality of the spinal cord stimulation (SCS) in patients with intractable back and / or leg pain.**
  Charles Brooker, Marc Russo, Michael J Cousins, Richard Sullivan, Tillman Boesel, Nathan Taylor, Rebecca Martin, Martine O'Neill, Lawrence Poree, Erin Hanson, John L Parker.

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2017

North American Neuromodulation Society 20th Annual Meeting, Las Vegas, NV, USA.

- **Electrophysiological Insight into Dorsal Column Neuroanatomy and the Mechanism of Action of Spinal Cord Stimulation (SCS).**
  Marc Russo, Robert Levy, John Parker.

North American Spine Society 32nd Annual Meeting, Orlando, FL, USA.

- **Restorative Neurostimulation for Refractory Chronic Low Back Pain: Two-Year Results from the Reactiv8-A Clinical Trial.**
  Kristiaan J Deckers, Kris L De Smedt, Bruce Mitchell, David G Vivian, Marc A Russo, Peter Georgius, Matthew D Green, John Vieceli, Sam Eldabe, Ashish Gulve, Jean-Pierre van Buyten, Iris Smet, Vivek Mehta, Shankar Ramaswamy, Ganesan Baranidharan, Richard Sullivan, Robert Gassin, James P Rathmell, Christopher J Gilligan.

International Neuromodulation Society 13th World Congress, Edinburgh, Scotland.

- **A Review of Treatments for Chronic Complex Regional Pain Syndrome.**
  Marc Russo, Danielle Santarelli.
- **A Case Series Examination of Recovered Long-Term Pain Relief Utilizing a Multiple Waveform Neurostimulator in Patients Who Experienced a Loss of Treatment Efficacy Using Spinal Cord Stimulation.**
  Nick Christelis, John Monagle, Marc Russo.
- **Real-World Retrospective Audit of Long-Term Clinical Outcomes Beyond 24 Months in Chronic Pain Patients Using a Multiple Waveform Neurostimulation System in Australia.**
  John Monagle, Marc Russo, Nick Christelis.
- **Treating the Wide Range of Chronic Intractable Pain Conditions Using a Multiple Waveform-Based Neurostimulator System in Australia: a Real World, Clinical Audit.**
  Marc Russo, Nick Christelis, John Monagle.
- **Use of Peripheral Nerve Stimulation And Spinal Cord Stimulation to Treat Chronic Pain Patients in Australia.**
  Peter Georgius, Marc Russo, John Monagle, Nick Christelis.

2016

Neuromodulation Society of Australia and New Zealand 11th Annual Scientific Meeting, Perth, Australia.

- **Rationale for Specificity of Anatomic Target of HF10 Stimulation.**
  Marc Russo.

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2015

Australian Pain Society 35th Annual Scientific Meeting, Brisbane, Australia.

- **An Audit of Early Tapentadol Use in the Australian Setting.**
  Marc Russo, Julia Busquets and Danielle Santarelli.

International Neuromodulation Society 12th World Congress, Montreal, Canada.

- **Rescuing HF10 Therapy – A Case Study.**
  Marc Russo

North American Neuromodulation Society 19th Annual Meeting, Las Vegas, NV, USA.

- **High Frequency Spinal Cord Stimulation at 10 kHz for Complex Regional Pain Syndrome.**
  Marc Russo, Dominic Bailey, Danielle Santarelli.
- **Cervical Spinal Cord Stimulation in the Treatment of Essential Tremor: A Case Report.**
  Marc Russo, Ushtana Smith, Danielle Santarelli

2014

North American Neuromodulation Society 18th Annual Meeting, Las Vegas, NV, USA.

- **High Frequency Spinal Cord Stimulation at 10 kHz for the Treatment of Chronic Pain: 6 Month Real World Effectiveness.**
  Marc Russo, Paul Verrills, Bruce Mitchell, John Salmon, Adele Barnard, Danielle Santarelli.
- **Significant Pain Relief with Subperception SCS (SubPSCS) at Standard Stimulation Rates: Exploratory research of SubPSCS at ≤1.2kHz.**
  Paul Verrills, Marc Russo, Sherry Lin, Brad Hershey.

Heart Rhythm Society 35th Annual Scientific Sessions, San Francisco, CA, USA.

- **Dual-targeted Thoracic Spinal Cord Stimulation for Heart Failure as a Restorative Treatment (SCS HEART Study): First-in-man Experience**.
  Hung-Fat Tse, Stuart Turner, Prashanthan Sanders, Yuji Okuyama,Katsuhito Fujiu, Chi-Wai Cheung, Marc Russo, Matthew Green, Kai-Hang Yiu, Elizabeth Lau, Chung-Wah Siu.

IASP 15th World Congress on Pain, Buenos Aires, Argentina.

- **Real World Outcomes of a Novel Compound Analgesic Cream (Ketamine, Pentoxifylline, Clonidine and DMSO) for CRPS.**
  Marc Russo, Danielle Santarelli.

Neuromodulation Society of Australia and New Zealand 9th Annual Scientific Meeting, Hobart, Australia.

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- **High Frequency Spinal Cord Stimulation for the Treatment of Chronic Pain: 12 Month Real-World Effectiveness.**
  Marc Russo, Paul Verrills, Bruce Mitchell, John Salmon, Thomas Berrigan, Adele Barnard, Danielle Santarelli.
- **Cluneal Nerve Stimulation for Refractory Low Back Pain.**
  Marc Russo, Danielle Santarelli.

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