

## CURRICULUM VITAE

**A/Prof. Marc A Russo**

(MBBS DA (UK) FANZCA, FFPMFANZCA)

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### **Hunter Pain Specialists:**

91-93 Chatham Street, Broadmeadow NSW 2292 Australia

Telephone: 61 2 4985 1800

Email: [admin@hunterpainspecialists.com.au](mailto:admin@hunterpainspecialists.com.au)

Web: [www.hunterpainspecialists.com.au](http://www.hunterpainspecialists.com.au)

### **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

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|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br><br>Co-Founder and Co-Director Hunter Pain Management Program - Innervate Pain Management |
| 2001 - Present | Founder and Director of Hamilton Day Surgery Centre<br><br>Founder and Director of Hunter Specialist Medical Centre                                                                                                                    |
| 1999 - Present | Founder and Director of Hunter Pain Clinic – now Hunter Pain Specialists<br><br>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<br><br>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<br><br>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 27<sup>th</sup> 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 27<sup>th</sup> 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 16<sup>th</sup> 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

18<sup>th</sup> 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 26<sup>th</sup> 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 91<sup>st</sup> 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 25<sup>th</sup> 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 15<sup>th</sup> 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 15<sup>th</sup> 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) 1<sup>st</sup> 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**

41<sup>st</sup> 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 14<sup>th</sup> 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 22<sup>nd</sup> 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 21<sup>st</sup> 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 14<sup>th</sup> 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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| <b>August</b>   | Stimwave Cadaver Course<br>11 August; Brisbane, QLD, Australia                                          |
|                 | Medtronic Medical Advisory Board Meeting<br>19-21 August; Loews Minneapolis Hotel, Minneapolis, MN, USA |
| <b>October</b>  | Faculty of Pain Medicine Spring Meeting<br>18-20 October; Byron Bay, NSW Australia                      |
|                 | Tilray Advisory Board Meeting<br>30 October; Sydney NSW Australia                                       |
| <b>November</b> | NSANZ Strategic Planning Meeting<br>29 November; Melbourne, VIC, Australia                              |
|                 | Faculty of Pain Medicine Examinations – Examiner<br>30 November; Melbourne, VIC, Australia              |
| <b>December</b> | Faculty of Pain Medicine Examinations – Examiner<br>1 December; Melbourne, VIC, Australia               |
|                 | Saluda Medical Principal Investigators Meeting<br>10 December; Gladesville, NSW, Australia              |
|                 | Faculty of Pain Medicine – Examination Pathways Meeting<br>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  $\alpha 10\beta 1$  (XSTEM-OA) in Adult Patients with Symptomatic Knee Osteoarthritis.

Phase: I/IIa      Sponsor: Xindu Pty Ltd / 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  $\geq 50$  to  $\leq 80$  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 for 12 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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### Publications

#### 2025

**The American Society of Pain and Neuroscience (ASPN) Guidelines and Consensus on the Definition, Current Evidence, Clinical Use and Future Applications for Physiologic Closed-Loop Controlled Neuromodulation in Chronic Pain: A NEURON Group Project.**

Pope JE, Deer TR, Sayed D, Antony AB, Bhandal HS, Calodney AK, Chakravarthy K, Costandi S, Diep J, Durbhakula S, Fishman MA, Gilligan C, Goree JH, Guirguis M, Hagedorn JM, Hunter CW, Kallewaard JW, Kapural L, Lam CM, Li S, Mayrsohn B, Nijhuis H, Nikolic S, Petersen EA, Poree LR, Puri SK, Reece DE, Rosen SM, Russo MA, Shah JM, Staats PS, Verrills P, Vu CM, Levy RM, Mekhail N.

*Journal of Pain Research*. 2025; 18: 531-551.

**Systematic review and meta-analysis of conventional medical management in a patient population with refractory chronic pain suitable to receive a spinal cord stimulation system.**

Russo M, Nevitt S, Santarelli D, Eldabe S, Duarte RV.

*Pain Medicine*. 2025; Feb 3.

**Vagus Nerve Stimulation for the Management of Chronic Pain.**

Russo M, Chakravarthy K, Kinfe TM.

*In book: Vagus Nerve Stimulation*. 2025; Chapter 15: 195-202.

**Twelve-Month Clinical Trial Results of a Novel, Dorsal Horn Dendrite Stimulation Waveform for Chronic Neuropathic Low Back Pain.**

Russo MA, Volschenk W, Bailey D, Santarelli DM, Holliday E, Barker D, Dizon J, Graham B.

*Neuromodulation*. 2025; 28(2): 263-273.

**The Opinion of Healthcare Professionals About a Proposed European Registry of Neuromodulation for Chronic Pain: An Online Survey.**

Goudman L, Rigoard P, Roulaud M, Slavin K, Russo M, Billot M, Moens M.

*Neuromodulation*. 2025; 28(2): 362-368.

#### 2024

**A Review of Etiological Biomarkers for Fibromyalgia and Their Therapeutic Implications.**

Russo M, Santarelli D, Georgius P, Austin PJ.

*Pain Physician*. 2024; 27(8): 495-506.

**The Neurostimulation Appropriateness Consensus Committee (NACC)®: Recommendations for Spinal Cord Stimulation Long-term Outcome Optimization and Salvage Therapy.**

Deer TR, Russo MA, Grider JS, Sayed D, Lamer TJ, Dickerson DM, Hagedorn JM, Petersen EA, Fishman MA, FitzGerald J, Baranidharan G, De Ridder D, Chakravarthy KV, Al-Kaisy A, Hunter CW, Buscher E, Chapman K, Gilligan C, Hayek SM, Thomson S, Strand N, Jameson J, Simopoulos TT, Yang A, De Coster O, Cremaschi F, Christo PJ, Varshney V, Bojanic S, Levy RM.

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*Neuromodulation*. 2024; 27(6): 951-76.

### **The Neurostimulation Appropriateness Consensus Committee (NACC)®: Recommendations for the Mitigation of Complications of Neurostimulation.**

Deer TR, Russo MA, Sayed D, Pope JE, Grider JS, Hagedorn JM, Falowski SM, Al-Kaisy A, Slavin KV, Li S, Poree LR, Eldabe S, Meier K, Lamer TJ, Pilitsis JG, De Andrés J, Perruchoud C, Carayannopoulos AG, Moeschler SM, Hadanny A, Lee E, Varshney VP, Desai MJ, Pahapill P, Osborn J, Bojanic S, Antony A, Piedimonte F, Hayek SM, Levy RM.

*Neuromodulation*. 2024; 27(6): 977-1007.

### **Five-Year Longitudinal Follow-up of Restorative Neurostimulation Shows Durability of Effectiveness in Patients With Refractory Chronic Low Back Pain Associated With Multifidus Muscle Dysfunction.**

Gilligan C, Volschenk W, Russo M, Green M, Gilmore C, Mehta V, Deckers K, De Smedt K, Latif U, Sayed D, Georgius P, Gentile J, Mitchell B, Langhorst M, Huygen F, Baranidharan G, Patel V, Mironer E, Ross E, Carayannopoulos A, Hayek S, Gulve A, Van Buyten JP, Tohmeh A, Fischgrund J, Lad S, Ahadian F, Deer T, Klemme W, Rauck R, Rathmell J, Maislin G, Heemels JP, Eldabe S.

*Neuromodulation*. 2024; 27(5): 930-43.

### **A Definition of Neuromodulation and Classification of Implantable Electrical Modulation for Chronic Pain.**

Sivanesan E, North RB, Russo MA, Levy RM, Linderroth B, Hayek SM, Eldabe S, Lempka SF.

*Neuromodulation*. 2024; 27(1): 1-12.

### **Comment to factors associated with positive outcomes of platelet-rich plasma therapy in Achilles tendinopathy**

Russo MA, Cairns R, Volschenk W, Santarelli DM.

*European Journal of Orthopaedic Surgery & Traumatology*. 2024; 34(3): 1733.

### **Progressing into a new paradigm: how we must leave the past behind if we want a change in pain research outcomes.**

Russo MA, Santarelli DM, Austin PJ, Graham BA.

*Pain Medicine*. 2024; 25(1): 5-7.

### **Pulsed Radiofrequency 2 Hz Preserves the Dorsal Root Ganglion Neuron Physiological Ca<sup>2+</sup> Influx, Cytosolic ATP Level, Δψ<sub>m</sub>, and pERK Compared to 4 Hz: An Insight on the Safety of Pulsed Radiofrequency in Pain Management [Letter].**

Russo M.

*Journal of Pain Research*. 2024; 17: 771-2.

## **2023**

### **Association Between Levels of Functional Disability and Health-Related Quality of Life With Spinal Cord Stimulation for Chronic Pain.**

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Taylor R, Soliday N, Leitner A, Hunter CW, Staats PS, Li S, Thomson S, Kallewaard JW, Russo M, Duarte RV.

*Neuromodulation*. 2023; 26(5): 1039-1046.

**A Novel, Paresthesia-Free Spinal Cord Stimulation Waveform for Chronic Neuropathic Low Back Pain: Six-Month Results of a Prospective, Single-Arm, Dose-Response Study.**

Russo MA, Volschenk W, Bailey D, Santarelli DM, Holliday E, Barker D, Dizon J, Graham B.

*Neuromodulation*. 2023; 26(7): 1412-1423.

**Problems With O'Connell et al, "Implanted Spinal Neuromodulation Interventions for Chronic Pain in Adults" (Cochrane Review).**

Russo MA, Bhatia A, Hayek S, Doshi T, Eldabe S, Huygen F, Levy RM.

*Neuromodulation*. 2023; 26(5): 897-904.

**From pain intensity to a holistic composite measure for spinal cord stimulation outcomes.**

Goudman L, Pilitsis JG, Russo M, Slavin KV, Hayek SM, Billot M, Rouland P, Moens M.

*British Journal of Anaesthesia*. 2023; 131(2): e43-e48.

**Persistent spinal pain syndrome – the coup de grace for failed back surgery syndrome?**

Simpson B, Rigoard P, Russo M.

*Neurochirurgie*. 2023; 69(3): 101438.

**Efficacy of Peripheral Nerve Field Stimulation for the Management of Chronic Low Back Pain and Persistent Spinal Pain Syndrome: A Narrative Review.**

Wong CH, Chan TCW, Wong SSC, Russo M, Cheung CW.

*Neuromodulation*. 2023; 26(3): 538-551.

**Spinal Cord Stimulator Complications Reported to the Australian Therapeutic Goods Administration.**

Sullivan R, Russo M, Taylor N, Santarelli D.

*Journal of Patient Safety*. 2023; 19(2): e53-e54.

**Spinal Cord Burst Stimulation vs Placebo Stimulation for Patients With Chronic Radicular Pain After Lumbar Spine Surgery.**

Hunter CW, Rosenow J, Russo MA.

*JAMA*. 2023; 329(10): 847-848.

**Ambroxol for neuropathic pain: hiding in plain sight?**

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### **2009**

#### **Patient preference for sustained-release versus standard paracetamol (acetaminophen): a multicentre, randomized, open-label, two-way crossover study in subjects with knee osteoarthritis.**

Benson M, Marangou A, Russo MA, Durocher J, Collaku A and Starkey YY.

*Journal of International Medical Research*. 2009; 37(5): 1321-1335.

#### **Re: Complex regional pain syndrome after infliximab infusion.**

Russo MA and Dorahy DJ.

*Journal of Pain and Symptom Management*. 2009; 37(3): e9-10.

### **2008**

#### **Chronic Non-Malignant Pain.**

Russo MA, Newton-John T and Lo W.

*Australian Doctor*. 2008; 21(March): 25-32.

### **2007**

#### **A clinical snapshot of transdermal buprenorphine in pain management.**

Russo MA and Wasiak J.

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### **2006**

#### **Anti-hyperalgesia properties of buprenorphine.**

Russo MA.

*Pain*. 2006; 122(1-2): 216; author reply 216.

#### **Recovery from bispectral index-guided anaesthesia.**

Russo MA.

*Anaesthesia and Intensive Care*. 2006; 34(1): 127; author reply 127.

## CURRICULUM VITAE

**A/Prof. Marc A Russo**

(MBBS DA (UK) FANZCA, FFPMFANZCA)

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### **2005**

**Letter to the editor regarding Reig et al., Thermocoagulation of the ganglion impar of Walther: description of a modified approach. Preliminary results in chronic, nononcological pain. *Pain Practice* 2005;5(2):103-110.**

Russo MA.

*Pain Practice*. 2005; 5(4): 367.

### **2004**

**Inadvertent subdural spread complicating cervical epidural steroid injection – Reply.**

Russo MA.

*Anaesthesia and Intensive Care*. 2004; 32(1): 145-146.

### **1997**

**Dilutional acidosis: a nonentity?**

Russo MA.

*Anesthesiology*. 1997; 87(4): 1010-1011; Author Reply 1013-1014.

## CURRICULUM VITAE

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### Conference Abstracts

#### 2025

*North American Neuromodulation Society 28<sup>th</sup> 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 Gatzinsky, 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 66<sup>th</sup> 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 27<sup>th</sup> 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 16<sup>th</sup> 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 17<sup>th</sup> Annual Scientific Meeting, Hobart, Australia.*

- **The A $\beta$  Nociceptor Hypothesis.**  
Marc Russo, Danielle Santarelli.

## **2023**

*North American Neuromodulation Society 26<sup>th</sup> Annual Meeting, Las Vegas, NV, USA.*

## CURRICULUM VITAE

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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 25<sup>th</sup> 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 91<sup>st</sup> Annual Scientific Congress, Adelaide, Australia.*

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

*Australian Pain Society 43<sup>rd</sup> 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.

*17<sup>th</sup> 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 5<sup>th</sup> 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.

## CURRICULUM VITAE

**A/Prof. Marc A Russo**

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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 16<sup>th</sup> 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.

*3<sup>rd</sup> 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) 22<sup>nd</sup> 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.

## CURRICULUM VITAE

**A/Prof. Marc A Russo**

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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 Remote Device Management.**  
Paul Verrills, Kasra Amirdelfan, Leonardo Kapural, Marc Russo.

*Neuromodulation Society of Australia and New Zealand (NSANZ) 15<sup>th</sup> 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 15<sup>th</sup> 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 25<sup>th</sup> 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) 2<sup>nd</sup> 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 14<sup>th</sup> 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.**
- **24-Month Avalon Study Data Indicates Improved Pain Reduction With Decreased Opioid Use.**

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.

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 23<sup>rd</sup> 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.

*7<sup>th</sup> 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 22<sup>nd</sup> 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 14<sup>th</sup> 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 17<sup>th</sup> Annual Pain Medicine Meeting, San Antonio, TX, USA | California Society of Interventional Pain Physicians 9<sup>th</sup> 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 21<sup>st</sup> 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'Neill, 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 20<sup>th</sup> 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 32<sup>nd</sup> 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 Viecele, 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 13<sup>th</sup> 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 11<sup>th</sup> Annual Scientific Meeting, Perth, Australia.*

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

Marc Russo.

## CURRICULUM VITAE

**A/Prof. Marc A Russo**

(MBBS DA (UK) FANZCA, FFPMFANZCA)

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### **2015**

*Australian Pain Society 35<sup>th</sup> 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 12<sup>th</sup> World Congress, Montreal, Canada.*

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

*North American Neuromodulation Society 19<sup>th</sup> 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 18<sup>th</sup> 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 35<sup>th</sup> 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 15<sup>th</sup> 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 9<sup>th</sup> 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.