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## Journal of Clinical Case Reports



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# **Arun Aggarwal Associate Professor** The University of Sydney Australia



- On behalf of Journal of Clinical Trials, it is my privilege to invite you to contribute to the Journal of Clinical Trials
- The Journal is an excellent opportunity to bring together scientific researchers and health care professional to present their work and share their knowledge
- The Journal caters for a wide variety of disciplines and specialties represented in areas of clinical trials and research
- A number of eminent researchers have published in the Journal to publish their high quality work
- It is only with the support and participation that will make the Journal a success



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PROFILE

- Professor Arun Aggarwal, is a Neurologist and Pain specialist
- He graduated from the University of Adelaide in 1987
- He then went on to specialise in Neurology, Rehabilitation Medicine and Pain Medicine
- He completed his PhD in 2004 in Motor Neuron Disease with his primary paper, "Detection of pre-clinical motor neurone loss in SOD1 mutation carriers using motor unit number estimation" being widely cited in the international literature.
- He has also written 3 book chapters on this subject and has also published widely on a number of different topics
- He currently has a number of research projects in the areas of Chronic Pain and Parkinson's Disease



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#### **CLINICAL ACTIVITIES**

2007 - present	SENIOR STAFF SPECIALIST REHABILITATION and PAIN MEDICINE – Part time 50%	RPAH Hospital Balmain Hospital
1998 - present	<ul> <li>VISITING MEDICAL OFFICER</li> <li>Neurology</li> <li>Neurology, Rehabilitation and Pain Medicine</li> <li>Rehabilitation Medicine</li> <li>Rehabilitation Medicine</li> <li>PRIVATE PRACTICE</li> <li>NEUROLOGY, NEUROPHYSIOLOGY and PAIN</li> </ul>	Concord Hospital Strathfield Private Hospital Metropolitan Rehabilitation Hunters Hill Private 49 Palmerston Rd Hornsby 190 Victoria Rd Rozelle
2011 – present	VISITING MEDICAL OFFICER Neurology, Rehabilitation and Pain Medicine	Mater Hospital





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#### CLINICAL TRIALS as PRINICIPAL INVESTIGATOR

2010-2011	• Clinical Study No. (701068-522), Post marketing surveillance study to	Agni Health Centre		
	evaluate the tolerability of Rebif New Formulation in patients with			
	Relapsing Multiple Sclerosis in an Australian clinical setting. (ReNew)			
	Ipsen Upper Limb Spasticity Survey (ULIS II) study	RPAH Rehabilitation		
	• Comparison of MMSE and MOCA as a Cognitive Screening Tool in	<b>Coffs Harbour PD Clinic</b>		
	Parkinsons Disease			
2011-2012	• Comparison of MMSE and MOCA Cognitive Screening Tools in Inpatient Setting	Balmain and Metro Rehab		
		Hospitals		
2011-2013	• Use of Dynamic Modified Orthosis (DMO) in the Management of Upper Limb	RPAH Spasticity Clinic		
	Contractures			
	The Role of Ketamine in Chronic Neuropathic Pain Management	<b>RPAH Pain Clinic</b>		
2012-present	• A comparative open label study comparing the efficacy of structured	RPAH Spasticity Clinic		
	physiotherapy vs non structured physiotherapy in reducing post-stroke spasticity			
	related shoulder pain in patients treated with Botulinum toxin A			
2013 – present	• A Randomized Double-Blind, Placebo Controlled, Multicenter, Phase 3 Study to	RPAH Pain Clinic		
V I	Evaluate the Cardiovascular Safety of Naldemedine for the Treatment of Opioid-			
	induced Constipation in Subjects with Non-malignant Pain Receiving Opioid			
	Therapy			
2014 - present	• An International, Multicenter, Observational, Prospective, Longitudinal Cohort	<b>RPAH Spasticity Clinic</b>		
• •	Study To Assess The Impact Of Integrated Spasticity Management Including	1 2		
	Repeated Bot-A Injections On Patient-Centred Goal Attainment In Adult Subjects			
	Suffering From Upper Limb Spasticity – ULIS III			
	• Prevalence of Biochemical and Hormonal Abnormalities in Chronic Pain Patients	<b>RPAH Pain Clinic</b>		
	• Efficacy of Sodium Valproate and Pregabalin in Neuropathic Pain			
	• The Role of Vitamin B12 in Chronic Pain	RPAH Pain Clinic		
		RPAH Pain Clinic		
Potential	• A Randomized, Double-Blind, Placebo-Controlled, 13-Week Study Of Ds-5565 For			
	Treatment Of Diabetic Peripheral Neuropathic Pain			
	Open-Label Extension study of DS5565 for 52 Weeks in Diabetic Peripheral	RPAH Pain Clinic		
	Neuropathic Pain			
	<ul> <li>Phase IV Clinical Trial in Chronic Low Back Pain PAREXEL # 208057</li> </ul>	RPAH Pain Clinic		
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**GRANT and JOURNAL REVIEWS** 

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2002	•	Application of a novel technique for motor unit number estimation using high density surface EMG in ALS and HMSN Ia	Prinses Beatrix Fonds - Netherlands
2003	•	Randomised controlled trial of the effectiveness of two hand-splinting positions on preventing contracture following stroke	South Western Sydney Area Health Service
2008	•	Superoxide dismutase in amyotrophic lateral sclerosis patients with D90A mutation	Brain
2009	•	Hereditary sensory Neuropathy Type I (HSN1) Treatment Pilot study	Sydney South West Area Health Service
2010	•	A Multi-centre double-blind paralllel-group placebo-controlled study of the efficacy and safety of teriflunomide in patients with relapsing multiple sclerosis who are treated with interferon-beta	Sydney South West Area Health Service
2011	•	Clinical Validity of the Mattis Dementia Raing Scake-2 in Parkinson's disease with MCI and Dementia Differential Motor Neuron Impairment and Axonal Regeneration in Sporadic and FALS with SOD-1 Mutations: Lessons from Neurophysiology	Journal of Neurological Science JNS-D-11-00226 Int J of Mol Sci
2013	•	Treatment of Metabolic Myopathy by Administration of the Anaplerotic Supplement Triheptanoin Pilot Study of the Treatment of Patients with Sporadic Inclusion Body Myositis with the Anaplerotic Supplement Triheptanoin Pilot Study of the Treatment of Muscle Disorders with wasting and Increased Catabolism with of the Anaplerotic Supplement Triheptanoin Hormonal Effects in Multiple Sclerosis (HEIMS) Study	Sydney Local Health District Sydney Local Health District Sydney Local Health District Journal of Clinical Trials
2014	:	Single Group Clinical Trial Survey of Calcium Folate Bone Health in FSHD: A cross-sectional study	Journal of Clinical Trials Sydney Local Health District



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#### **CHAPTERS in BOOKS**

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1. Motor Unit Number Estimation (MUNE) and Quantitative EMG. Suppl. to Clinical Neurophysiology, Vol 60, M.B. Bromberg (Vol 60 Ed 1) ISBN 978-0-444-52909-1. Chapter 16. Motor unit number estimation in asymptomatic familial amyotrophic lateral sclerosis. 164 – 169. 2009

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- 2. Motor Unit Number Estimation (MUNE) and Quantitative EMG. Suppl. to Clinical Neurophysiology, Vol 60, M.B. Bromberg (Vol 60 Ed 1) ISBN 978-0-444-52909-1. Chapter 17. Detection of pre-clinical motor unit loss in familial amyotrophic lateral sclerosis. 171 179. 2009
- 3. Protection of Motor Neurons in Pre-Symptomatic Individuals Carrying SOD 1 Mutations: Results of Motor Unit Number Estimation (MUNE) Electrophysiology, Amyotrophic Lateral Sclerosis, Martin H. Maurer (Ed.), ISBN: 978-953-307-806-9, Chapter 28, 627-663, 2012. InTech, Available from: <u>http://www.intechopen.com/articles/show/title/protection-of-motor-neurons-in-3-pre-symptomatic-imdividual-carrying-sod-1-mutations-results-of-moto</u>
- 4. The Role of the Statistical Method of Motor Unit Number Estimation (MUNE) to Assess the Potential Therapeutic Benefits of Riluzole on Patients with Pre-Symptomatic Familial Amyotrophic Lateral Sclerosis. Current Advances in Amyotrophic Lateral Sclerosis, Alvaro Estevez (Ed.). ISBN 978-953-51-1195-5. In-Tech. <u>http://www.intechopen.com/articles/show/title/the-role-of-the-statisticalmethod-of-motor-unit-number-estimation-mune-to-assess-the-potential-ther</u>



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#### PROFESSIONAL MEMBERSHIPS

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- Royal Australasian College of Physicians
- Australasian Faculty of Rehabilitation Medicine (Royal Australasian College of Physicians)
- Faculty of Pain Medicine (Australian and New Zealand College of Anaesthetics)

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- Australia & New Zealand Association of Neurologists
- Australian Medical Association
- Australasian Stroke Society
- Epilepsy Society of Australia
- Australian Pain Society
- Movement Disorder Society of NSW
- National Disability Services ANZAN Delegate
- International Association of Pain Regular Member
- International Society of Physical and Rehabilitation Medicine





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## **PROFESSIONAL and HOSPITAL COMMITTEES**

1999	• Combined Rehab Medicine Training Selection Committee	Sydney	
2000-2001	• Organising Committee Australasian Faculty of Rehabilitation Medic Annual Scientific Meeting 2001	zine Sydney	
2001-2002	Organising Committee Australian Pain Society Annual Scientific Me 2002	eeting Sydney	
2002-2007	Australasian Faculty of Rehab Medicine Clinical Assessor		
2005 – 2008	• Director of Clinical Training General Clinical Training Committee Medical Staff Council and JR Clinical Training Committee	Balmain Hospital RMO	
2000 – present	<ul> <li>Special Interest Group in Neurological Rehab Medicine</li> <li>Neuro-Rehabilitation Sub-Committee of ANZAN</li> </ul>	AFRM ANZAN	
2002 – present	Delegate to ACROD / National Disability Services	ANZAN	
2003 – present	• Medical Advisory Committee (Chairman 2005 and 2008)	Metropolitan Rehabilitation	
2008 – present	<ul> <li>Medical Advisory Committee (Chairman 2010 - 2013)</li> <li>Medical Advisory Board</li> </ul>	Hunters Hill Private Hospital TN Association Australia (& other Related Facial Pain)	
2009 – present	Chairman of Aust & NZ Association of Neurologists Neuro-Rehabili Sub-Committee	itation ANZAN	
2009 – 2012	<ul> <li>National Organising Committee World Congress of Neuro-Rehabilit 2012</li> </ul>	ation Melbourne	
2013	<ul> <li>Alliance for Improving the Management of Pain Specialist Steering Committee</li> <li>Pfizer Advisory Board</li> </ul>	AIM Meeting – Sydney Pfizer	
2014	<ul> <li>Pfizer Seizure Advisory Board</li> <li>Alliance for Improving the Management of Pain Specialist Steering Committee</li> <li>Interactional Conference on Clinical Trials 2015 Organising Commit</li> </ul>	Pfizer AIM Meeting – Melbourne	





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# **UNDERGRADUATE and POSTGRADUATE TEACHING**2007 • Supervision and Teaching of AFRM Registrars Balmain & Metropolitan Hospitals

	2007	<ul> <li>Supervision and Teaching of AFRM Registrars</li> <li>Clinical Assessor</li> <li>Principles of Rehabilitation Lecture</li> </ul>	AFRM Central Clinical School Medicine 3
	2008	<ul> <li>Supervision and Teaching of AFRM Registrars</li> <li>Management of Parkinsons Disease Lecture</li> <li>Principles of Rehabilitation Lecture</li> </ul>	Balmain & Metropolitan Hospital AFRM Registrar Teaching, Sydney Central Clinical School Medicine 3
	2009	<ul> <li>Supervision and Teaching of AFRM Registrars</li> <li>Neurosciences Clinical Tutor 9 x 1.5 hr tutor</li> <li>Research Supervision – "Falls in Parkinson's Disease"</li> <li>Management of Neuropathic Pain and Assessment of Chronic Pain</li> <li>Updates on Neuropathic Pain</li> </ul>	Metropolitan Hospital Uni of Sydney Medicine 2 GMP 4 <sup>th</sup> Year Uni of NSW Medical Student Combined NSW & AFRM Bi-National Training Program, Syd AFRM Registrar Meeting
	2010	<ul> <li>Supervision and Teaching of AFRM Registrars</li> <li>Neurosciences Clinical Tutor 9 x 1.5 hr tutor</li> <li>Supervision of IPSEN Spasticity Fellow</li> </ul>	Balmain & Metropolitan Hospital Uni of Sydney Medicine II GMP RPAH
	2011	<ul> <li>Supervision and Teaching of AFRM Registrars</li> <li>Neurosciences Clinical Tutor 9 x 1.5 hr tutor</li> <li>Principles of Electrophysiology</li> <li>Assessment and Management of Parkinson's Disease</li> </ul>	Balmain & Metropolitan Hospital Univ of Sydney Medicine II GMP AFRM Registrar Workshop, Syd Combined NSW & AFRM Bi-National Training Program, Syd
	2012	<ul> <li>Supervision and Teaching of AFRM Registrars</li> <li>Neurosciences Clinical Tutor 9 x 1.5 hr tutor</li> <li>Supervision of IPSEN Spasticity Fellow</li> </ul>	Balmain & Metropolitan Hospital Uni of Sydney Medicine II GMP RPAH
	2013	<ul> <li>Supervision and Teaching of AFRM Registrars</li> <li>Supervision of IPSEN Spasticity Fellow</li> </ul>	Balmain & Metropolitan Hospital RPAH
	2014	<ul> <li>Supervision and Teaching of AFRM Registrars</li> <li>Supervision of IPSEN Spasticity Fellow</li> <li>Neurosciences Clinical Tutor 9 x 1.5 hr tutor</li> </ul>	Balmain & Metropolitan Hospital RPAH Uni of Sydney Medicine II GMP





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## **PROFESSIONAL TEACHING COMMINTMENTS**

2011	Stroke Management	Metro Rehab Nursing
	Bones, Groans & Getting Better	Hunters Hill Private GP
	Reducing the Burden of Persistent Pain	Hornsby GP Pain Workshop
	Dangers of a Popular Alternative Therapy	RPAH Grand Rounds
	Introducing TARGIN: Evidence and Efficacy	Coffs Harbour Local Specialist
	Post-Stroke Pain	Stroke Recovery Assoc. NSW
	Trigeminal Neuralgia Update 2011	RPAH Pain Management
	Update on Parkinson's Disease	Central Sydney GP Workshop
	Epilepsy Case Report	Neurology Educate Workshop
2012	<ul> <li>Chronic Pain Management in General Practice</li> <li>Chronic Pain Management in Regional Areas</li> <li>Management of Chronic pain</li> <li>Co-Morbidities of Trigeminal Neuralgia</li> <li>Updates of Medical Management of TN</li> <li>Pain in Practice – Neuropathic Pain</li> <li>Rehab Seminar - Pain Management</li> <li>Chronic Pain Management</li> <li>Neuropathic Pain Management</li> <li>Essential Considerations in Chronic Pain Management Managing Moderate-Severe Chronic Pain</li> <li>Complex Spasticity Case Studies</li> <li>Essentials of Chronic Pain Management</li> </ul>	<ul> <li>Western Sydney GP Launch</li> <li>Mid North Coast Specialist Launch Upper</li> <li>North Shore GP</li> <li>TNA Regional Conf. Adelaide</li> <li>TNA Regional Conf. Adelaide</li> <li>Inner City GP Module</li> <li>Hunters Hill Private Education</li> <li>Upper North Shore GP Launch</li> <li>Neurology/ Neurosurg. Mater</li> <li>CME Weekend Western Plains Zoo</li> <li>Dubbo</li> </ul>
2013	<ul> <li>Chronic Pain Management - Essentials</li> <li>Parkinsons Disease Update</li> <li>Essentials of Chronic Pain Management</li> <li>Quality Use of Pharmacotherapies in Chronic Pain</li> <li>Chronic Low Back Pain: Assess and Manage</li> <li>Renal disorders and other Considerations in Management of Chronic Pain</li> </ul>	<ul> <li>Western Sydney GP Meeting</li> <li>Upper North Shore GP</li> <li>Inner West GP Sydney</li> <li>Western Sydney GP Meeting</li> <li>Hills District GP Network</li> <li>Upper North Shore GP Meeting</li> <li>Inner West GP Network</li> </ul>
2014	<ul> <li>The Multi-disciplinary Approach in Stroke Management</li> <li>Pearls of Parkinson's Disease</li> <li>Multi-disciplinary Approach in the Management of Stroke</li> <li>Chronic Pain Clinical Update – PALEXIA SR</li> <li>Parkinson's Disease and Motor Neurone Disease Update</li> </ul>	Medicare Local Inner West Sydney North Coast NSW Medicare Local Rural Doctors Network Outreach Upper North Shore GP AFRM Registrar Teaching



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#### **ORIGINAL ARTICLES in PEER – REVIEWED JOURNAL**

A. Aggarwal, JE	Ankylosing Spondylitis	Med J Aust.
Marosszeky		June 1994; 160 (11): 734-35
A. Aggarwal, J	Probable Ciprofloxacin Induced Cholestasis	Aust & NZ Journal of Med.
Gurka		Oct 1995; 25 (5): 541-42
A. Aggarwal, D	Opsoclonus as a Paraneoplastic Manifestation of Pancreatic	J of Neurology, Neurosurgery &
Williams	Carcinoma	Psych. Nov 1997; 63 (5): 687-88
A. Aggarwal, K	Cervical Root Injury Caused By Extracranial Vertebral Artery	J Clinical Neuroscience.
Burton	Dissection	March 1999; 6(2):166-168
A. Aggarwal, A	Symptomatic Colloid Cyst of the Third Ventricle Occurring in	J Clinical Neuroscience. November
Corbett, J Graham	Mother and Son	1999; 6(6):520-522.
A. Aggarwal, A	Myopathy Due to Primary Systemic Amyloidosis	J of Neurology, Neurosurgery &
Corbett		Psychiatry. March 2000; 68(3): 385
A. Aggarwal, G.A.	Normal Complement of Motor Units in Asymptomatic Familial	J of Neurology, Neurosurgery &
Nicholson	(SOD1 mutation) Amyotrophic Lateral Sclerosis Carriers	Psychiatry.
		October 2001; 71(4):478-481
A. Aggarwal, MJ	Dopa-Responsive Parkinsonism Secondary to Right Temporal	Movement Disorders.
Ling, JGL Morris	Lobe Haemorrhage	April 2002; 17(2): 402-404.
A. Aggarwal, G	Detection Of Pre-Clinical Motor Neurone Loss In SOD1	J of Neurology, Neurosurgery &
Nicholson	Mutation Carriers Using Motor Unit Number Estimation	Psychiatry Aug 2002; 73(2): 199-201
M. Walker, A.	Nerve Conduction Studies and Electromyography	Australian Doctor.
Aggarwal		Apr 2003: 32
A. Aggarwal, G.	Penetrance of 3 Different Superoxide Dimutase 1 (SOD1)	Int J of Neuroscience. Aug 2005.
Nicholson	Mutations: glu100gly, ile113thr and val148gly	
O.A. Ali, A.	Thoracic Spinal Cord Ischemia Following Acute Myocardial	Heart Lung Circ.
Aggarwal, G.	Infarction and Cardiac Arrest in a Young Male	Feb 2006; 15 (1): 53-5
Thanakrishnan,		
H.C. Lowe		
B. Dawson, E.J.	Unrecognized Pellagra Masquerading as Odynophagia	Int Med Journal.
Favaloro, J. Taylor,		Jul 2006; 36 (7): 472-474
A. Aggarwal		





#### **ORIGINAL ARTICLES in PEER – REVIEWED JOURNAL**

A. Aggarwal, E. Kean	Comparison of the Folstein Mini Mental State Examination (MMSE) to the Montreal Cognitive Assessment (MoCA) as a Cognitive Screening Tool in an Inpatient Rehabilitation Setting	Neurosciences & Med. Dec 2010; 1 (2): 34-38		
A. Aggarwal	Handgrip maximal voluntary isometric contraction does not correlate with thenar motor unit number estimation	Neurology Research International. May 2012 (187947): 1-5		
A. Aggarwal	Pre-symptomatic Motor Unit Loss in Familial Amyotrophic Lateral Sclerosis - An Ongoing Longitudinal Study	Journal of Neurodegeneration & Regeneration May 2012		
A. Aggarwal, I. Wood	Low Vitamin B12 Syndrome in Trigeminal Neuralgia	Journal of Pain & Relief July 2012; 1(5): 1-5		
B. Philip, S. Limaye, G. Thanakrishnan, A. Aggarwal	Posterior Reversible Encephalopathy Syndrome (PRES) as an Initial Presentation of Systemic Lupus Erythematosus (SLE)	Journal of Clinical Case Reports Jun 2012; 2 (9): 1-3		
B. Taboosh, A.Aggarwal	Quadraparesis following Chiropractic Manipulation: A Case Report	Journal of Clinical Case Reports Aug 2012; 2: 165-167		
A. Aggarwal,M. Bernadi, L. Wright	Cognitive screening tool in Parkinson's disease: Mini Mental State Examination (MMSE) versus Montreal Cognitive Assessment (MoCA)	Journal of Alzheimer's Oct 2012 Vol 1 Issue 5: 279-283		
M. Bernadi, L. Wright, A. Aggarwal	Mild Cognitive Impairment is Underrecognised in Newly Referred Patients with Parkinson's Disease: Mini Mental State Examination (MMSE) versus Montreal Cognitive Assessment (MoCA)	Journal of Parkinson's Disease Oct 2012: 280-285		
A. Aggarwal	Challenges of Pain Medicine: The Stigma Associated with Using Tri-Cyclic Anti-Depressants – It's not all in the Mind	J of Clinical Trials Dec 12		
R. Bhandari, A. Aggarwal	Pharmacotherapy in Patients with Drug –Induced Parkinsonism: A Case Series	International Neuropsychiatric Disease Journal Jan 2014: 2 (3)		
R. Bonello, M. Cohen, J. Reece A. Agarwal, C. Rigney	A Post-Market Surveillance Study on ENAR Therapy	Evidence-Based Complementary and Alternative Medicine Journal Vol 2014 / 341256		



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#### **CONFERENCES and WORKHOPS**

Ν	2009	•	So I Have TN - What Now?	Trigeminal Neuralgia Association
		•	Differential Diagnosis of Facial Pain Panel Member – HEY DOC!	3 <sup>rd</sup> National Conference Yarra Valley
	2010	•	Differential Diagnosis of Facial Pain Diagnosis and Medical Management of TN	Trigeminal Neuralgia Association Hobart Support Group
	2011	•	The Therapeutic Benefits of Riluzole in the Presence of Pre- symptomatic Motor Unit Loss in FALS Headache & Migraine Medical Management of Trigeminal Neuralgia Hey Doc! What? Why? and How?	EPS International Forum of Neuroscience Nanjing, China Trigeminal Neuralgia Association 4 <sup>th</sup> National Conference Hunter Valley
	2012	•	Protection of Motor Neurons in Pre-Symptomatic Individuals Carrying SOD 1 Mutations: MUNE Chronic Pain Management	3 <sup>rd</sup> World Congress of NeuroTalk 2012, Beijing, China Kuala Lumpur and Penang
	2013	•	The Use of Riluzole in Pre-Symptomatic FALS Integrating Agonist and Antagonists in Pain Management Sub-Anaesthetic IV Ketamine: Effectiveness in Chronic Pain Management The Role of Rehab in Cancer Care Opioids for Acute Pain in Post-operative Pain The Role of Opioids in Rehabilitation Settings Headaches: Cluster Headache, SUNA & SUNCT? Medical Management of TN Panel Member – HEY DOC!	2013 Asian Clinical Congress, Bangkok Kuala Lumpur (KL Hilton & SIME Darby SJ) 4 <sup>th</sup> World Congress of NeuroTalk 2013, Xian, China Supportive Care in Oncology (SCORE) – Kuala Lumpur University Hospital, Cheras, KL Rehab Hospital, Cheras, KL Trigeminal Neuralgia Association 5 <sup>th</sup> National Conference, Gold Coast
	2014	•	Neuropathic pain – Case based workshop Targeting Multiple Mechanisms in the Treatment of Chronic Pain	Alliance for Improving the Management of Pain 2014 – Sydney Australian College of Nurse Practitioners 2014 Breakfast session





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