

Program at a Glance						
egend:						
	Plenary	Breakout Session	Oral Presentations	Workshop		
	Meeting	Award Ceremony	Networking Event	Exhibit Break/Poster Viewing		
Sunday, 12 May 2024						
	Pre-Confe	rence Day - Noninvasive Brain Stimulation: From Pr	ain, to Inflammatory, to Post-Viral Symptoms			
			East B	allroom AB		
8:30 - 09:00			Breakfa	ist & Posters		
9:00 - 12:25			Session 1			
9:00 - 09:35			Neurovascular Modulation: Is the Direct Stimulation of Brain Vasculature as a Therapeutic Mechanism? Marom Bikson, USA			
19:35 - 10:10			Transcranial Direct Current Stimulation for Inflammatory and Post-Infection Disorders Giuseppina Pilloni, USA			
0:10 - 10:40			Break & Posters			
0:40 - 11:15	-		Non-Invasive Brain Stimulation for Addiction Medicine Hamad Ekhtiari, USA			
1:15 - 11:50	Transcranial Magnetic Stimulation for Pain, Headache, and Comorbid Depression Albert Leung, USA					
1:50 - 12:25			Innovation in Neuromodulation: The Cas Joan Camprodon, USA	e for Pro-Cognitive Therapies		
2:25 - 13:45		Lunch & Posters				
3:45 - 17:00	-			ssion 2		
3:45 - 14:20	Advanced Current Delivery Techniques for Based Treatment Benjamin Hampstead, USA			or HD-tDCS: From Higher Current to Home-		
4:20 - 14:55			At-Home Transcranial Direct Current Stimulation (tDCS) with Telehealth Support for Symptom Control in Chronically-III Patients Helena Knotkova, USA			
4:55 - 15:30			A New Disposable Electrotherapy Platfor Mohamad FallahRad, USA	m		
5:30 - 15:55	5 Bre			& Posters		
5:55 - 16:30			Non-Invasive Brain Stimulation to Treat I Taiza Grespan Santos Edwards, Brazil	Disorders of Human Verticality		
6:30 - 17:05			Non-Invasive Brain Stimulation in Rehabilitation: Where are we and Where are we Going? Dylan Edwards, USA			
7:05 - 17:15			Closing Comments			

 Main Congress

 Sunday, 12 May 2024

 18:30-1945
 INS Opening Reception in the Exhibition Area

	Monday, 13 May 2024					
	East Exhibit Hall A	East Ballroom C	East Meeting Room 11 & 12	Parkview East 2+3		
08:00-08:30		Morning Coffee + Pastries in the Exhibition Hall				
08:30 - 12:00	Opening Plenary Session	Plenary Session				
08:30 - 09:00	Welcome Address					
09:00 - 09:25	Placebo Effect in Neuromodulation Robert Levy, USA					
09:25 - 09:50	Big Data and AI in Neuromodulation Jeff Rogers, USA					
09:45 - 10:10	Why is Neuromodulation Effective in CRPS? Frank Huygen, The Netherlands					
10:10 - 10:30	Effects of Deep Brain Stimulation on Brain Function in Obsessive-Compulsive Disorder: From Animal Models to Patients Speaker Damiaan Denys, The Netherlands					
10:30 - 10:55		Break, Poste	rs & Exhibits			
11:00 - 11:15	An In-Depth Analysis of "Asleep" vs. "Awake" DBS – A Neurologist's Perspective (Argument for awake) Leo Verhagen, USA					
11:15 - 11:30	An In-Depth Analysis of "Asleep" vs. "Awake" DBS – A Neurosurgeon's Perspective (Argument for asleep) Kim Burchiel, USA					
11:30-11:40	Discussion between "Awake" and "Asleep" Leo Verhagen, USA & Kim Burchiel, USA					
11:40 - 12:00	INS Neurostimulation Appropriateness Consensus Committee 2024: An Update Marc Russo, Australia					
12:00 -13:00	Oral Poster Presentations Five Best Abstracts					
13:00 - 14:30	Lunch, Posters & Exhibits					
14:30 -16:00	Spine – Mechanisms of Action	Neuromodulation for Movement Disorders	Neuromodulation for Neuropsychiatry: Obsessive Compulsive Disorder and Depression	Neuromodulation for Rehabilitation After Stroke		
14:30 - 14:45	Surround Inhibition Mechanism of Action	Microcircuit Engagement at the	Therapeutic Neuromodulation for			
	Warren Grill, USA	Singleneuron Resolution Luka Milosevic, Canada	Depression and Bi-Polar Disorder: The Case for Biomarker Driven Treatment Development Joan Camprodon, USA	The Current State of Non-Invasive Neuromodulation for Post-Stroke Rehabilitation Dylan Edwards, USA		
14:45 - 15:00	Warren Grill, USA Role of Spike Synchrony in Perception in the Optimization of SCS Steve Prescott, Canada	Luka Milosevic, Canada Deep Brain Stimulation Induced Neurophysiological Effects to Guide Treatment of Movement Disorders Kara Johnson. USA	Case for Biomarker Driven Treatment Development	Neuromodulation for Post-Stroke Rehabilitation		
15:00 - 15:15	Role of Spike Synchrony in Perception in the Optimization of SCS Steve Prescott, Canada Physiological Effects and Mechanisms of Action of Spinal Cord Stimulation to Treat Pain: Insights from Computational Models and Quantitative Sensory Testing Scott Lempka, USA	Luka Milosevic, Canada Deep Brain Stimulation Induced Neurophysiological Effects to Guide	Case for Biomarker Driven Treatment Development Joan Camprodon, USA Novel TMS Protocols for Depression Noah Philip, USA VNS for Depression: RECOVER Study Charles Conway, USA	Neuromodulation for Post-Stroke Rehabilitation Dylan Edwards, USA Novel Non-Invasive Neuromodulation Strategies for Post-Stroke Rehabilitation		
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	Tuesday, 14 May 2024					
	East Exhibit Hall A	East Ballroom C	East Meeting Room 11 & 12	Parkview East 2+3	East Ballroom AB	
		Nurses and HCP Workshop on Neuromodulation Part 1. Morning Session Basic Track (08:30 - 12:30)	Nurses and HCP Workshop on Neuromodulation Part 1 Morning Session Advanced Track (08:30 - 12:30)			
08:30 - 9:00		Meet and Greet (Coffee and Pastries)	Meet and Greet (Coffee and Pastries)			
9:00-9:30	Morning Coffee + Pastries in the Exhibition Hall	Introductions & Welcome Patient Selection Rebekah Richards, Australia	Introductions & Welcome Biopsychosocial in Combination with SCS in PSPS Type 2 Patients Rimke Snel, The Netherlands	Morning Coffee + Pastries in the Exhibition Holl		
09:30 - 12:30	Plenary Session 2	Basics in Psychology and Communication with the Chronic Pain Patient; Psychology and Pain - What is the Connection? Kathryn Curtis, Canada				
	Insights into Disease and Mechanisms of Neuromodulation from Invasive Neurophysiology Nader Pouratian, USA Neuromodulation Targets for Psychiatric	Post-Implant Physio Programs David Elvish, Australia	Advanced Programming Jenny Jennings, UK			
	Disorders: Common Circuits Patricio Posse, USA	Morning Break	Morning Break			
	Can Spinal Cord Stimulation Alter the Disease of Chronic Pain? Yun Guan, USA	Complication Management Kara Hallett, Canada	SCS Nurses in the Scientific Field -			
11:00 - 11:25	Break, Posters & Exhibits		presentation about own research about SCS and objective data Tanja Hamm, The Netherlands	Break, Pos	ters & Exhibits	
	How Neuromodulation Changed the Landscape of Epilepsy Surgery Arthur Cukiert, Brazil	Patient Case Study Alison Cox, UK	Patient Case Study Nancy Polyhronopoulos, Canada Mandeep Sandhu, Canada			
	Controversies in Ethics Related to Neurotechnologies Zelma Kiss, Canada	Q & A	Q & A			
12:30 - 13:10	INS General Assembly (Members only)					
13:10 - 14:30			Lunch, Posters & Exhibits			
	Spinal Cord Stimulation for Pain Clinical Update	Brain: Epilepsy	Brain: Neuropsychiatry - Novel Applications in Behavioral Neuromodulation	Neuroprosthetics and Neuroregeneration	_	
	Data on Non-Surgical Back and Experience with Different Waveforms Timothy Deer, USA	Neuromodulation for Refractory Epilepsy: Progress Towards Less Invasive Approaches Andreas Schulze-Bonhage, Germany	Deep Brain Stimulation of the Nucleus Accumbens in the Treatment of Severe Alcohol Use Disorder: A phase I Pilot Trial Nir Lipsman, Canada	Optimizing Physiological Closed-Loop Controllers (PCLC) in Closed-Loop Neuromodulation- Tim Denison, UK		
14:45 - 15:00	Restorative Stimulation for Chronic Nonsurgical Low Back Pain Christopher Gilligan, USA	Stimulation of the Thalamus for Arousal Restoral in Temporal Lobe Epilepsy (START) Clinical Trial Hal Blumenfeld, USA	Deep Brain Stimulation of the Nucleus Accumbens in Treatment-Resistant Alcohol use Disorder: A Double-Blind Randomized Controlled Multi-Center Trial Jens Kuhn, Germany	Neural Interfaces for Natural Touch Perception Dustin Tyler, USA		
	T12 Dorsal Root Ganglion Stimulation for Axial Low Back Pain Kiran Patel, USA	Multitarget DBS and RNS for Epilepsy Andrew Yang, USA	Cortical Stimulation for Addictive Disorders Dr De Ridder, New Zealand	High Performance Speech Neuroprosthesis Daniel Rubin, USA		
	Should we combine SCS and DRG as Synergistic Modalities to Address Chronic Refractory Pain? Results of BOOST-DRG RCT Phillipe Rigoard, France	Intracranial Neuromodulation in Children with Refractory Epilepsy George Ibrahim, Canada	Cognitive and Quality-of-Life Related Factors of Body Mass index (BMI) Improvement after Deep Brain Stimulation in the Subcallocal Cingulate and Nucleus Accumbens in Treatment- Refractory Chronic Anorexis Nervosa Gloria Villalba-Martinez, Spain	Biohybrid Regenerative Interface Damiano Barone, UK		
	Is there any Indication for SCS and DRG in Refractory Brachial Plexus Pain? Jan Vesper, Germany	Vagal Nerve Stimulation in Refractory and Super-Refractory Epileptic Status in Children Andrea Landi, Italy	Postsurgical Morbidity and Mortality Favorably Informs Deep Brain Stimulation for New Indications including Schizophrenia and Schizoaffective Disorder Judith M. Gault, USA	High Resolution EMG-Based Prosthetic Control James FitzGerald, UK		
15:45 - 16:00	Discussion	Discussion	Discussion Break, Posters & Exhibits	Discussion		
16:30 - 18:20	Oral Detar Presentations				Workshop on Neuromodulation Part 2 Afternoon Sessions (16:30 - 18:25)	
	Neurostimulation for Pain - Clinical Update 2 Neuromodulation for Rehabilitation Neuromodulation: Engineering and AI Neurostimulation for Pain - Clinical Update 3: Closed Loop SCS International Panorama of Nurses - Panel educed app Vetoria Bains, Canada; Caro Edelbrock, The Networks, Sphulis Maria Vivas Munoz, Spain Urika Parker, Sweden; Rachel Whip, Autria Caro Edelbrock, The Netherlands; Rachel Whi NS Nurses / Allied Health Committee & INS Memory and Caro Edelbrock, The Netherlands; Rachel Whi					
18:30 - 19:30		International W	omen in Neuromodulation Reception ir	n the Atrium Foyer	Session Close	

	Wednesday, 15 May 2024			
	East Exhibit Hall A	East Ballroom C	East Meeting Room 11 & 12	Parkview East 2+3
09:00-09:30		Morning Coffee + Pastries in the Exhibition Hall		
09:30 - 12:00	Plenary Session 3			
09:30 - 10:00	INS Polyanalgesic Consensus Conference 2024: Review and Recommendation Jay Grider, USA			
10:00 - 10:30	Low Intensity Ultrasound Neuromodulation as a New Brain Therapy Andres Lozano, Canada			
10:30 - 11:00	Sub-Threshold Neuromodulation: Everything Old is New Marom Bikson, USA			
11:00 - 11:25		Break, Posters	s & Exhibits	
11:30 - 12:00	ITTD Shall Remain an RCT Free Zone: The Challenges of Research in ITDD – ITDD Day Sam Eldabe, UK			
12:00 - 13:00	Giant of Neuromodulation Award and Champion of INS Award			
13:00 - 14:30	Lunch, Posters & Exhibits			
14:30 - 16:00	Current Status of Intrathecal Drug Delivery Systems for Cancer-Related Pain	Cutting Edge Research in Noninvasive Brain Stimulation (NIBS)	Low Energy Focused Ultrasound (LiFu)	Neuromodulation for Gastrointestinal Disorders
14:30 - 14:45	Intrathecal Drug Delivery for Cancer- Related Pain: Pathophysiological Changes and Chemosensitivity after IDDS Eellan Sivanesan, USA	Transcranial Magnetic Stimulation of the Visual Cortex: An Update Ivete Ferraz, Brazil	Potential Mechanisms Supporting Low Intensity Focused Ultrasound for Neuromodulation Noah Philip, USA	Bioelectric Neuromodulation for Gastrointestinal Disorders Sophie Payne, Australia
14:45 - 15:00	Intrathecal Drug Delivery for Cancer- Related Pain: A Systematic Review and Meta-Analysis of Clinical Studies Rui Duarte, UK	Neuromodulation of Motor Regions for Migraine: New Science and New Technology Alex DaSilva, USA	Low Energy Focused Ultrasound Neuromodulation: Basic and Translational Research Erica McCune, USA	Transcutaneous Cervical Vagal Nerve Stimulation for Gastro-Intestinal Issues Linda Nguyen, USA
15:00 - 15:15	Intrathecal Drug Delivery for Cancer- Related Pain: Trunk and Limb Pain Shane Brogan, USA	tDCS for Depression: The Last Ten Years and the Next Five Andre Brunoni, Brazil	Low Intensity Focused Ultrasound for Epilepsy Emma Lescrauwaet, Belgium	Transcutaneous Neuromodulation for Gastrointestinal Disorders Jiande Chen, USA
15:15 - 15:30	Intrathecal Drug Delivery for Cancer- Related Pain: Head and Neck Pain Denis Dupoiron, France	Leveraging Neuromodulation-Induced Brain Plasticity for Improvement in Attention and Working Memory in Mild Traumatic Brain Injury Lars Hungerford, USA		Electronic Bypass for Diabetes: Optimization of Stimulation Parameters and Mechanisms of Glucagon-Like Peptide- 1 Shiying Li, USA
15:30 - 15:45	Intrathecal Drug Delivery for Cancer- Related Pain: Pain Secondary to Cancer Therapy (Radiation, Chemotherapy, Immunotherapy) Christophe Perruchoud, Switzerland	Transcranial Electrical Stimulation in Neuropathic Pain Helena Knotkova, USA	Round Table Discussion moderated by Stana Bojanic, UK	DBS for Obesity Clement Hamani, Canada
15:45 - 16:00	Discussion	Discussion	Discussion	Discussion
16:00 - 16:30		Break, Posters	s & Exhibits	
16:30 - 18:20		Oral Poster Pr	esentations	
	Peripheral Nerve Stimulation – Clinical Update	Neuromodulation for GU and GI Disorders	Neurostimulation for Pain – Clinical Update 4	Neurostimulation for Pain – Clinical Update 5

	Thursday, 16 May 2024					
	East Exhibit Hall A	East Ballroom C	East Meeting Room 11 & 12	Parkview East 2+3		
07:30-08:00	Morning Coffee + Pastries					
08:00 - 10:00	Peripheral Nerve Stimulation + Non- Epilepsy Vagus Nerve Stimulation	Artificial Intelligence	Neuromodulation for Genitourinary Disorders	Neuromodulation for Neurocardiology		
08:00 - 08:15	Optoelectric Vagus Nerve Stimulation Robert Levy, USA	Overview of Al, What it is and What it isn't Jeffrey Rogers, USA	New in Sacral Neuromodulation for GU Indications Stefan De Wachter, Belgium	Myocardial Ischemic Challenges and Neural Control Strategies Siamak Salavatian, USA		
08:15 - 08:30	Selective Optogenetic Stimulation of Efferent Fibers in the Vagus Nerve Lindsea Booth, Australia	Al-Based Outcome Prediction to Optimize Patient and Device Selection in SCS Phillipe Rigoard, France	High-Density SCS: Selective Activation of Lower Urinary Tract Nerves Robert Gaunt, USA	The Neurometabolic Axis: A Novel Therapeutic Target in Heart Failure Tarun Dasari, USA		
08:30 - 08:45	Modulation of Sympathetic Nervous System for Cardiac Disease Olujimi Ajijola, USA	Practical AI Algorithm to Optimize DBS Planning and Programming Nevair Gallani, Brazil	Neuromodulation for Chronic Pelvic Pain Corey Hunter, USA	Overview Neuromodulation in Patients with Refractory Angina Pectoris Fabienne Vervaat, The Netherlands		
08:45 - 09:00	Does Neuromodulation have a Role in the Management of Head & Facial Pain? Jean-Pierre van Buyten, Belgium	AI Brain Imaging for Surgical Targeting Noam Harel, USA	Mechanism of Actions for Sacral, Tibial and Pudendal Nerve Stimulation – Looking for Similarities and Differences Magdy Hassouna, Canada	Neuromodulation Devices for Heart Failure Veronica Dusi, Italy		
09:00 - 09:15	VNS in PTSD Doug Bremner, USA	Mapping Functional Connectome of the Default Mode Network for Targeted Neuromodulation Dirk de Ridder, New Zealand	State-Dependent Bioelectronics Interface to Control Bladder Function James Hokanson, USA	Vagal and Median Nerve Stimulation to Treat Arrhythmias Natasja de Groot, The Netherlands		
09:15 - 09:30	High-Frequency PNS for Post-Amputation Pain Leo Kapural, USA	Machine Learning STN Biomarkers for PD Patient Hagai Bergman, Israel	Closed Loop Neuromodulation in GU Dysfunction Tim Denison, UK	DRG Stimulation for Management of Cardiovascular Disease Alexander Green, UK		
09:30 - 09:45	Neuromodulatory Mechanisms of VNS- Enhanced Rehabilitation Catherine Thorn, USA	Applying AI Data Science in Brain Neuromodulation for Epilepsy Martha Morrell, USA	Transcutaneous Electrical Stimulation or Neurogenic Bladder following SCI Evgeniy Kreydin, USA	A Future Perspective on Neuromodulation for Cardiovascular Diseases Mike DeJongste, The Netherlands		
09:45 - 10:00	Discussion	Discussion	Discussion	Discussion		
10:00 - 10:25 10:30 - 11:20		Brea	k			
10:30 - 11:20	Oral Poster Presentations					
	Neuropsychiatric Disorders: Behavioral Neuromodulation	Stimulation for Epilepsy	Topics in Non-Invasive Stimulation	Neuromodulation for Cardiovascular Disorders		
11:30 - 13:40	Closing Plenary					
	Socioeconomic Impact of Spinal Cord Stimulation: Best Practices for Assessment and Measuring What Matters - Anywhere Rod Taylor, UK					
	Advances in our Clinical Understanding of Autonomic Regulation Therapy Using Vagal Nerve Stimulation in Patients with Heart Failure Jeffrey Ardell, USA					
	Decipher Vagal Afferent Signaling Pathway from Body to Brain Theodore Zanos, USA					
	INS Research Award Winners Lectures Dominic Siler, USA; Maria Dardalat Makin, USA					
13:30 - 13:40	Closing Comments					
13:40	Congress Adjourns					