Pan American Movement Disorders Clinical Neurophysiology Course Toronto, Canada ·May 1-3, 2025

DAY 1

8:20 - 8:30	Welcome from Course Directors	Welcome from Course Directors	
	Neurophysiology: An Extension of Clini	cal Assessment to Categorize Movement	
8:30 - 8:50	Disorders		
	Robert Chen – Toronto, Canada		
8:50 - 8:55	Moderated Question and Answer		
8:55 - 9:15	Overview of Basic and Advanced Neuro	physiological Techniques	
	Talyta Grippe – Toronto, Canada		
9:15 - 9:20	Moderated Question and Answer		
9:10 – 9:40		First steps to set up a Movement Disorders Neurophysiology lab: Which equipment	
	do I need and How to do initial signal processing?		
	Marcus Callister – Toronto, Canada		
	Felipe Vial – Santiago, Chile		
9:50 - 10:00	Moderated Question and Answer		
10:00 - 10:30	COFFEE BREAK		
Session 2: Jerl	xy Movements		
10:30-10:50	Clinical Neurophysiology to Differential	to Jorly Moyomonts	
10.30-10.30	Clinical Neurophysiology to Differentiate Jerky Movements – Basic physiology		
	Robert Chen – Toronto, Canada		
10:50- 10:55	Moderated Question and Answer		
10:55-11:15	`	o Different subtypes	
10:33-11:13	Clinical Neurophysiology for Myoclonus: Different subtypes		
	Specific physiology for diagnosis of each subtype Shabbir Merchant – Boston, USA		
11:15 – 11:20	Moderated Question and Answer		
	Myoclonus: Clinical cases (interactive with the participants)		
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11:20 – 12:00	` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `		
11:20 – 12:00	Christos Ganos – Toronto, Canada		
	Christos Ganos – Toronto, Canada Nicolas Phielipp – Irvine, USA		
12:00 - 12:10	Christos Ganos – Toronto, Canada Nicolas Phielipp – Irvine, USA Moderated Question and Answer		
12:00 - 12:10 12:10 - 13:00	Christos Ganos – Toronto, Canada Nicolas Phielipp – Irvine, USA Moderated Question and Answer LUNCH BREAK		
12:00 - 12:10 12:10 - 13:00 Break out Ses	Christos Ganos – Toronto, Canada Nicolas Phielipp – Irvine, USA Moderated Question and Answer LUNCH BREAK sion: Jerky Movements		
12:00 - 12:10 12:10 - 13:00 Break out Ses	Christos Ganos – Toronto, Canada Nicolas Phielipp – Irvine, USA Moderated Question and Answer LUNCH BREAK	Workshop Back Averaging and ERD	
12:00 - 12:10 12:10 - 13:00 Break out Ses	Christos Ganos – Toronto, Canada Nicolas Phielipp – Irvine, USA Moderated Question and Answer LUNCH BREAK sion: Jerky Movements vided into four groups of 10 Hands-on Session with Patients/Healthy participant demonstration	(brief lecture with demonstration)	
12:00 - 12:10 12:10 - 13:00 Break out Ses	Christos Ganos – Toronto, Canada Nicolas Phielipp – Irvine, USA Moderated Question and Answer LUNCH BREAK sion: Jerky Movements vided into four groups of 10 Hands-on Session with Patients/Healthy		

13:00 – 13:30 13:30 – 14:00 14:00 – 14:30	Jerky movements – patient 1 <i>Group A</i> (9 th Floor) Jerky movements – patient 2 – <i>Group A</i> (12 th Floor) Jerky movements – healthy demonstration – <i>Group A</i> (9 th Floor)	Jerky movements – patient 2 <i>Group B</i> (12 th Floor) Jerky movements – patient 1 <i>Group B</i> (9 th Floor) Jerky movements – healthy demonstration - <i>Group B</i> (9 th Floor)	Group C & Group D (9 th Floor – Conference room)
14:30 – 15:00	TEA BREAK Hands-on Session with Patients All Faculty		Workshop Back Averaging (brief lecture with demonstration) Participant works on computer for data analysis All Faculty
15:00 – 15:30	Jerky movements – patient 1 <i>Group C</i> (9 th Floor)	Jerky movements – patient 2 <i>Group D</i> (12 th Floor)	Group A & Group B
15:30 – 16:00	Jerky movements – patient 2 – <i>Group C</i> (12 th Floor)	Jerky movements – patient 1 <i>Group D</i> (9 th Floor)	(9 th Floor – Conference room)
16:00 – 16:30	Jerky movements – healthy demonstration – <i>Group C</i> (9 th Floor)	Jerky movements – healthy demonstration - <i>Group D</i> (9 th Floor)	
16:30 – 16:45	Closing Remarks		
18:00 – 21:00	Dinner and Case presentation Venue: DoubleTree by Hilton Hotel Toronto Downtown (Victoria Ballroom) 108 Chestnut Street, Toronto, Ontario, M5G1R3, Canada		

Session 1: Clinic	cal Neurophysiology	y of Tremor		
8:30-8:55	Clinical Neurophysiology to Differentiate tremor physiology Basic physiology (peripheral vs. central) Felipe Vial – Santiago, Chile			
8:55 – 9:00	Moderated Question and Answer			
9:00-9:25	Clinical Neurophysiology to Differentiate different types of tremors Specific physiology for diagnosis of each subtype Panagiotis Kassavetis – Washington, USA			
9:25-9:30	Moderated Question and Answer			
9:30–10:10	Tremor: Different subtypes and Clinical Cases (interactive with the participants) <i>Katherine Longardner</i> – San Diego, USA <i>Marcus Callister</i> – Toronto, Canada			
10:10-10:20	Moderated Question and Answer			
10:20-10:40	COFFEE BREAK			
Session 2: Clinic	cal Neurophysiology	y of other hyperkin	etic disorders	
10:40–11:10	Clinical Neurophysiology of other hyperkinetic movement disorders Karlo Lizarraga – Rochester, USA			
11:10 – 11:15	Moderated Questi	ion and Answer		
11:15 – 11:55	Clinical Cases of other hyperkinetic disorders (interactive with the participants) Christos Ganos – Toronto, Canada Talyta Grippe – Toronto, Canada			
11:40-12:00	Moderated Questi	ion and Answer		
12:00 - 13:00	LUNCH BREAK			
Break out Sessi	on: Tremor			
Participants divi	ided into four groups	s of 10		
	Hands-on Session with Data collection All Faculty	th Patients	Workshop: Use of electrophysiology to study tremor (brief lecture with demonstration) Participant works on computer for data analysis All Faculty	
13:00 – 13:30	Tremor – patient 1 Group A (9 th Floor)	Tremor – patient 2 Group B (12 th Floor)	Group C & Group D (9 th Floor – Conference room)	
13:30 – 14:00	Tremor – patient 2 Group A (12 th Floor)	Tremor – patient 1 Group B (9 th Floor)	(55. 555	
14:00 – 14:30	Tremor – healthy demonstration Group A (9 th Floor)	Tremor – healthy demonstration Group B (9 th Floor)		

14:30 – 15:00	TEA BREAK		
	Hands-on Session with Patients All Faculty		Workshop: Use of electrophysiology to study tremor (brief lecture with demonstration) Participant works on computer for data analysis All Faculty
15:00 – 15:30	Tremor – patient 1 Group C (9 th Floor)	Tremor – patient 2 Group D (12 th Floor)	Group A & Group B (9 th Floor – Conference room)
15:30 – 16:00	Tremor – patient 2 Group C (12 th Floor)	Tremor – patient 1 Group D (9th Floor)	(3 Ploof – Contenence room)
16:00 – 16:30	Tremor – healthy demonstration Group C (9 th Floor)	Tremor – healthy demonstration <i>Group D</i> (9 th Floor)	
16:20–16:30	Closing Remarks		

DAY 3

Session: Advan	ced uses of neurophysiology studies in treatment: DBS and Botulinum toxin injections		
8:30 – 9:00	Use of EMG and ultrasound for dystonia treatment		
	Shabbir Merchant – Boston, USA		
	Talyta Grippe – Toronto, Canada		
9:00 - 9:05	Moderated Question and Answer		
9:05 - 9:35	Patient demonstration – use of EMG for limb dystonia (2 cases –		
	interactive with the participants)		
	Robert Chen – Toronto, Canada		
	Marcus Callister – Toronto, Canada		
9:35 – 9:45	Moderated Question and Answer		
9:45 -10:00	COFFEE BREAK		
10:00 - 10:30	The Role of Neurophysiological Measurements in Clinical Practice: An Ally for		
	Effective DBS Treatment		
	Alfonso Fasano – Toronto, Canada		
10:30 – 11:00	Challenges in Managing Dystonia: Case Discussions (2 cases)		
	Panagiotis Kassavetis – Washington, USA		
	Karlo Lizarraga – Rochester, USA		
11:00 -11:05	Moderated Question and Answer		
11:05 - 11:55	Patient demonstration – use of ultrasound for botulinum toxin		
	injections (hands on with healthy participants)		
	Panagiotis Kassavetis - Washington, USA		
	Shabbir Merchant – Boston, USA		
11:55 - 12:05	Moderated Question and Answer		
12:05 – 12:15	Closing Remarks and Evaluation		