

Pre-Congress English

PRECONGRESS COURSE ELECTRODIAGNOSIS (IFCN/ISPRM Joint Meeting)

Sunday June 4th, 2023

DURATION: 8 hours

**TITLE:
New Perspectives and Challenges in Electrodiagnostic Medicine**

CHAIR:
Jorge E Gutierrez, MD, MSc

LEARNING OBJECTIVES:

At the conclusion of this activity, the learner will be able to:

- Describe the concepts of special techniques to estimate the number of motor units in a muscle, to realize an adequate exploration of the paraspinal muscles and to measure jitter using regular concentric electrodes.
- Describe new concepts in the interpretation of nerve conduction (NC) studies combining measures in an index, and the pitfalls that may occur during the performance of the NC studies.
- Identify the features and benefit of neuromuscular ultrasound in the evaluation of carpal tunnel syndrome and ulnar neuropathies.
- Learn the skills to identify individual atypical or uncommon EMG waveforms and firing patterns of waveforms and improve skills of EMG waveform interpretation in clinical practice.
- Determine an appropriate EDX approach and understand the findings and limitations of electrodiagnostic studies in patients with motor neuron diseases, peripheral neuropathies, focal mononeuropathies, plexopathies, radiculopathies, neuromuscular junction disorders, and myopathies.

Intended audience:

Physiatrists, Neurologists, Clinical neurophysiologists, and trainees of these medical specialties.

PROGRAM / Morning session: Techniques

Time	Lecture	Lecture
8:00 - 8:30	Motor Unit Number Index (MUNIX) principles and practice	Dr. Sanjeev D. Nandedkar
8:30 - 9:00	Paraspinal mapping	Dr. Andrew Haig

Time	Lecture	Lecture
9:00 - 9:30	Rational Uses of Reference Values and Combining multiple measures into a summary index - for more reliable measurement in Electrodiagnosis	Dr. Larry Robinson
9:30 - 10:00	EDX and US in the Evaluation of entrapment syndromes	Dr. Levent Oskaçar
10:15 - 10:45	Jitter Measurement with Concentric Needle	Dr. Sanjeev D. Nandedkar
10:45 - 11:15	Pitfalls in Nerve Conduction Studies	Dr. Larry Robinson
11:15 - 12:45	Workshop: Basic and complex EMG waveform recognition	Dr. Sanjeev D. Nandedkar

Afternoon session: Pathologies

Time	Lecture	Lecture
14:00 - 14:30	EDX Approach to Peripheral neuropathies	Dr. Paul Barkhaus
14:30 - 15:00	Role of EDX in Radiculopathies	Dr. Mark Lissens
15:00 - 15:30	Approach to Brachial Plexopathies	Dr. Jorge Gutierrez
15:45 - 16:15	Clinical neurophysiology of ALS	Dr. Paul Barkhaus
16:15 - 16:45	Role of electrodiagnosis in nerve transfers for focal neuropathies and brachial plexopathies	Dr. Larry Robinson
16:45 - 17:15	EDX findings in NMJ disorders	Dr. Carlos Rangel
17:15 - 17:45	EDX Approach to Myopathies	Dr. Paul Barkhaus