

## Basic Approach to NCS/EMG - Online Course

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### Course Highlights:

A 2-day comprehensive online course, covering Nerve Conduction Studies & Electromyography (NCS/EMG), including approach, basic techniques and clinical applications:

### Course Summary:

- Detailed approach to technical, recording and clinical aspects of Nerve Conduction Studies, including criteria for demyelinating and axonal neuropathies
- Technical Aspects of Nerve Conduction Studies
- Specialised NCS techniques - Repetitive Nerve Stimulation (RNS) and Late responses
- Normal & abnormal spontaneous EMG activity
- EMG MUP patterns – Neuropathic & Myopathic
- Specialised EMG techniques – Multi-MUP analysis & SFEMG

### Target Audience:

- Neurophysiologists, Neurologists, Neurosurgeons, Spinal Surgeons
- Orthopedic and Plastic Surgeons dealing with reconstructive nerve injury surgery
- Rheumatologists
- Physical Medicine & Rehabilitation
- Neurophysiology Technologists

### Speaker:



Dr. Ali's keen interests have been electrodiagnostic evaluation of neuromuscular disorders, single-fiber EMG, MEG and TMS studies. He initiated and established the SF-EMG service at QEHB, after learning the technique from Prof Erik Stålberg in Uppsala, Sweden and contributed in his normative data study for SF-EMG with concentric needle electrodes. Dr. Ali has been passionately involved in training and teaching post-graduate residents and fellows. Dr. Ali regularly conducts engaging courses and CME workshops in Clinical Neurophysiology in UK, K.S.A, U.A.E and Pakistan and has initiated an international online learning hub in Clinical Neurophysiology, **The Neurophys Academy**.

### Course Agenda:

Day 1 Session/Date	Topic	Speaker
18:00 – 18:10 hrs.	Introduction to the course	
18:10 – 18:55 hrs.	Introduction & Approach to NCS	Dr. Sajjad Ali
18:55 – 19:15 hrs.	Technical Aspects of NCS	Dr. Sajjad Ali
<b>19:15 – 19:20 hrs.</b>	<b>Break</b>	
19:20 – 19:40 hrs.	Specialised NCS – Late Responses	Dr. Sajjad Ali
19:40 – 20:00 hrs.	Specialised NCS – Repetitive Nerve Stimulation	Dr. Sajjad Ali
20:00 – 20:15 hrs.	Questions & Answer Session	
20:15 hrs	<b>End of Day 1</b>	
Day 2 Session/Date	Topic	Speaker
18:00 – 18:30 hrs.	EMG: Spontaneous Activity	Dr. Sajjad Ali
18:30 – 19:15 hrs.	EMG: The Motor Unit Potential (MUP) Patterns – Neuropathic & Myopathic	Dr. Sajjad Ali
<b>19:15 – 19:20 hrs.</b>	<b>Break</b>	
19:20 – 19:40 hrs.	Specialised EMG – Multi-MUP Analysis	Dr. Sajjad Ali
19:40 – 20:10 hrs.	Specialised EMG – SF-EMG	Dr. Sajjad Ali
20:00 – 20:15 hrs.	Questions & Answer Session	
20:15 hrs.	<b>End of Day 2</b>	

### Course Faculty:

	Name	Role(s)
1.	Dr. Sajjad Ali	Consultant – Clinical Neurophysiologist & Course Director