ESSENTIAL ARTICLES OF PM&R

ELECTRODIAGNOSIS

Authors:
Chloe Bomberger, MD
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Anterior interosseous nerve syndrome: Fascicular motor lesions of median nerve trunk. Neurology 2014 Feb 18;82(7):598-606. *Fascinating study where MR neurography was used to prove the presence of fascicular lesions in the upper arm in patients with spontaneous anterior interosseous nerve syndrome (AINS) diagnosed by EMG. The affected fascicles maintained their somatopic organization from the main trunk of the median nerve in the upper arm to the AIN in the forearm. These findings suggest that AINS is a multifocal mononeuropathy and not an entrapment neuropathy in the majority of cases and this study draws attention to the fact that somatopic and fascicular organization can lead to incorrect localization by electrodiagnostic testing.*

How electrodiagnosis predicts clinical outcome of focal peripheral nerve lesions. Muscle Nerve 52: 321–333, 2015. *An excellent review of how common electrodiagnostic measures used in the evaluation of focal peripheral nerve injuries can be used to predict prognosis. Also reviewed are important concepts related to mechanism and location of injury and pathophysiology.*


The Thoracic Outlet Syndromes.

European Federation of Neurological Societies/Peripheral Nerve Society Guideline on management of chronic inflammatory demyelinating polyradiculoneuropathy: Report of a joint task force of the European Federation of Neurological Societies and the Peripheral Nerve Society — First Revision.

Electrodiagnosis of ulnar neuropathy at the elbow (UNE): A Bayesian approach.

Clinical and pathophysiological concepts of neuralgic amyotrophy.
Nat Rev Neurol 2011;7:315–322.

Peripheral nerves and plexus: Imaging by MR-neurography and high-resolution ultrasound.

The whole issue is beneficial; highlighted articles below

Electrodiagnosis of Brachial Plexopathies and Proximal Upper Extremity Neuropathies

Anatomical, Clinical, and Electrodiagnostic Features of Radial Neuropathies

Clinical Features and Electrodiagnosis of Ulnar Neuropathies

An Electrodiagnostic Approach to the Evaluation of Peripheral Neuropathies

Electrodiagnostic Evaluation of Myopathies

Electrodiagnosis of Myotonic Disorders
Electrodiagnostics and clinical correlates.
PM&R May 2013;5(5):Supplement

The entire supplement is worth a look; particularly essential articles below:

Evaluating the Patient With Suspected Radiculopathy

Inherited Polyneuropathies

Acquired Myopathy/Dystrophies

Neuromuscular Junction Disorders

Electrodiagnosis in Persons with ALS.