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***“Demystifying the Evaluation of Brachial Plexopathy to Enhance Patient Treatment and Outcomes”***

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The brachial plexus is a complex structure and its evaluation, whether clinical or electrodiagnostic requires a thorough knowledge of anatomy. Electrodiagnosis uses nerve conduction (NCS) and needle electromyography (EMG) studies as an adjunct to a sound clinical examination. Electrodiagnostic testing accurately localizes the site, extent, pathophysiology, chronicity, and severity of brachial plexopathies. This presentation will use 3 case studies to highlight the unique, historical, clinical examination and electrodiagnostic findings in patients with varying brachial plexopathies. The case studies will reinforce key examination findings and their association with optimal treatment and patient outcomes. The speakers will review of the anatomy of the brachial plexus; provide a synopsis of the clinical and electrodiagnostic findings in patients with brachial plexus lesions; discuss how these patients differ from those with cervical radiculopathy or isolated mononeuropathies; highlight the similarities of the thought process in the approach to a clinical exam and an electrophysiological exam; and discuss appropriate treatments to optimize patient outcomes.