

# Electrodiagnosis of Disorders of Neuromuscular Transmission

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## KEYWORDS

- Neuromuscular transmission • Myasthenia gravis • Lambert-Eaton syndrome
- MuSK • Repetitive nerve stimulation • Single fiber EMG • EMG • RNS

## KEY POINTS

- Conventional needle electrode electromyographic (EMG) examinations are necessary in patients suspected of having myasthenia gravis (MG) to exclude diseases that may mimic or coexist with MG such as peripheral neuropathy and inflammatory or ocular myopathies.
- The lack of attention to temperature requirements in repetitive nerve stimulation testing is the most common error made, rendering the study unhelpful. This is most important when considering presynaptic disorders of neuromuscular transmission.
- There is no one muscle that will be more abnormal in every patient with MG in single-fiber EMG. The muscle(s) to be tested must be selected based on the distribution of weakness in the individual patient.
- Single-fiber EMG provides the most useful information particularly when repetitive nerve stimulation studies are normal and is most always abnormal when there is careful selection of involved muscles including those of the paraspinal region.
- Normal jitter in a clinically weak muscle indicates the weakness is not caused by an abnormality of neuromuscular transmission.

## INTRODUCTION

The roles of electrodiagnosis in disorders of neuromuscular transmission are to confirm or reject one's clinical impression regarding the presence or absence of a disorder of neuromuscular transmission (NMT), to determine whether the disorder is either presynaptic or postsynaptic, to exclude other coexisting neuromuscular disorders, and to monitor the disease course in response to its natural history or to treatment.

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