Electrophysiologic evaluation for NMJ disorders including Myasthenia gravis	
1	Set up - Ensure limb is warmed to at least 33C - Immobilize the limb as best as possible
2	Preferably a motor and sensory nerve in one upper and one lower extremity CMAP amplitudes would be normal in MG If CMAP amplitudes low/borderline, test for presynaptic NMJ transmission disorder (eg LEMS) by repeating distal stimulation immediately after 10 seconds of exercise. >40% increment above baseline is abnormal; >100% is highly suggestive of a presynaptic NMJ disorder.
3	 Repetitive nerve stimulation (RNS) at rest Using supramaximal stimulation Slow RNS (2-3 Hz) x 5-10 impulses, 1 second apart, repeated x3 to ensure reproducibility Choose at least one proximal and one distal motor nerve (always try to study weak muscles) In a normal patient, there is <10% decrement between the 1st and 4th responses If there is no significant decrement at baseline, have patient maximally exercise for 1 minute, then repeat slow RNS immediately, 1, 2, 3, 4 minutes afterward to demonstrate postexercise exhaustion If there is significant decrement present at any point, have the patient maximally exercise for 10 seconds and immediately afterward, repeat slow RNS to look for postexercise facilitation/repair of the decrement
4	Needle electromyography (EMG) Concentric needle EMG of proximal and distal muscles, especially weak muscles Unstable or short, small, polyphasic motor unit action potentials may be seen in moderate-severe MG with normal or early recruitment Note: any muscle with denervation or myotonia on needle EMG may demonstrate a decrement on RNS, in which case the decrement on RNS does not signify a primary NMJ disorder (may be a severe denervating or a myotonic disorder)
5	Single fiber EMG (SF-EMG) - If strongly suspect MG and the above findings are normal/equivocal, perform SF-EMG in the extensor digitorum (EDC) +/- one other muscle (always best to study a weak muscle) - Jitter and blocking indicate an NMJ disorder - A normal SF-EMG in a clinically weak muscle excludes an NMJ disorder

Table 2. Protocol for electrodiagnostic evaluation for disorders of the NMJ including MG (adapted from Preston & Shapiro).