

Ocular Myasthenia Gravis

Clinical Features

- Triad: Ptosis, Oculomotor paresis and Obicularis oculi weakness
 - **Ptosis** may be unilateral or bilateral
 - Alternating ptosis is specific for this condition
 - **Eyelid fatigue**
 - Ptosis worsens with prolonged upgaze or upon return to primary gaze
 - **Cogan's lid twitch**
 - After brief but sustained downgaze, a saccade to primary gaze results in the eyelid quickly rising and falling (1 mm or more typically)
 - **Eyelid Curtaining**
 - When lifting the more ptotic eyelid, the contralateral eyelid will droop more because of Hering's law
 - Resting for 5 minutes with the eyes closed will cause improvement in ptosis
 - Strabismus that fluctuates or appears fatiguable
 - Any type of strabismus possible
 - prolonged or sustained gaze in the field of action of the affected muscle may show increasing paresis
 - Lagophthalmos is rare
 - attempt to open the eyelid against forced closure- if the eyelid can be opened it suggest obicularis weakness

Diagnostic Tests

Antibody Tests

- **Acetylcholine Receptor Antibody**
 - sensitivity 50% in Ocular myasthenia vs 90% in Generalized myasthenia
 - The most specific test, no false positives have been reported
- Muscle specific tyrosine kinase antibodies (MuSK)
 - Rare cases of this antibody present in the setting of ocular myasthenia without acetylcholine receptor antibodies
- LRP4 antibodies
 - 3 cases reported these present in setting of ocular myasthenia

Other tests

- **Ice Pack Test**
 - Place a bag of ice on the ptotic lid for 1 minute

- Immediately asses ptosis when ice removed
- improvement is transient (<1 min)
- sensitivity 80% if prominent ptosis present
- **Tensilon test**
 - Edrophonium- inhibits acetylcholinesterase
 - transiently reverses muscle weakness
 - Sensitivity 85-95%
- Electrophysiology
 - Repetitive nerve stimulation- reduction in amplitudes with repetitive stimulation
 - Single-fiber EMG- temoral variability of adjacent motor nerve fibers known as “jitter”.

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