

Ptosis occurs as a result of paralysis of the Müller's or superior tarsal muscle which has sympathetic innervation. It is a mild <2mm ptosis which is less severe than in cases of oculomotor nerve or elevator palpebrae lesions.

Anhidrosis

No-Sweatband

Anhidrosis on the face and arm will vary depending on the lesion. Postganglionic lesions usually don't present anhidrosis, however anhidrosis of the forehead could be seen. This sign is frequently not apparent to patients or clinicians.

Miosis

Mice-eyes

Ipsilateral miosis is more evident in dark than in light and dilatation of the affected pupil is slower by 15-20 seconds than normal.

Diagnosis

Diagnosis by Clinical Impression

Diagnostic-computer displaying Clinical Impression

If diagnosis is clear there is no need for diagnostic confirmation. However, in subtle cases confirmation is needed and can be done with cocaine or apraclonidine drops, the latter being more available. Optical administration of apraclonidine 0.5% would cause a reversal of anisocoria as Horner pupil will dilate by alpha-1 denervation supersensitivity while alpha-2 stimulation in the normal eye will cause slight constriction of the pupil.

MRI

M-R-eyes

Patients with Horner syndrome presentation require imaging, usually an MRI, unless it occurs in the setting of obvious trauma or after a surgical procedure to help identify the etiology of the disease.

Management

Treat Underlying Disorders

Treating Underlying Attacker

Treatment will depend on the underlying etiology, therefore cases of Horner syndrome with no identified etiology should be thoroughly investigated as there are life-threatening conditions that may cause this syndrome.