

Brown Syndrome

Description

- Abnormality of the superior oblique tendon
- Limitation of elevation in adduction

Clinical Characteristics

- Deficient elevation in adduction that improves in abduction
- Hypotropia
- Chin up head position and/or face turn away from affected eye
- Forced ductions show restriction to elevation in adduction that is worse with retropulsion*
- V pattern*
- Superior oblique function normal*
- (*)Help distinguish from Inferior Oblique Palsy

Etiologies

- Congenital tendon or trochlear abnormalities
- Acquired
- Trauma
- Inflammatory
 - Sinusitis
 - Systemic inflammatory diseases: Rheumatoid arthritis

Treatment Goals

- Abnormality of the superior oblique tendon
- Limitation of elevation in adduction

Treatment

- Treat underlying inflammatory disease if present
 - Steroid injection into trochlear area
 - Oral non-steroidal anti-inflammatory agents
- Congenital Brown syndrome may improve spontaneously

- University of Iowa Patients
 - 83% Unchanged
 - 10% Improved
 - 3% Resolved
 - 3% worsened
- May improve years later (mean 11.7 years in Iowa data)
- Observation may result in worse stereo vision outcomes than surgery.
- Patients may do best without surgery unless vision is threatened

Surgical Options

- Superior Oblique tenotomy/tenectomy
 - Possibility of superior oblique palsy
 - More likely if case is not severe
 - Combined with or followed by IO recession
 - “Chicken Suture”
- Superior Oblique tendon spacer
 - Silicone spacer
 - Suture spacer

[strabismus](#)

From:

<https://childreneye.org/wiki/> - **Children's Eye Wiki**

Permanent link:

https://childreneye.org/wiki/doku.php?id=brown_syndrome

Last update: **2015/11/09 21:52**

