

7.10.1. Congenital Eyelid Anomalies (I)

Epiptosis

- introduction
 - isolated
 - types
 - associated with other eyelid, facial, or systemic anomalies
 - most congenital eyelid anomalies occur during the second month of gestation
- clinical presentation
 - blepharophimosis syndrome
 - autosomal dominant
 - chromosome 3
 - FOXL2 gene
 - blepharophimosis
 - severe ptosis
 - epicanthus inversus (fold of skin extending from the lower to upper eyelid)
 - lateral lower eyelid ectropion
 - hypoplasia of the superior orbital rims
 - telecanthus
 - hypertelorism
 - poorly developed nasal bridge
 - ear deformities
- management
 - multiple surgeries required
 - indications for surgical correction
 - visually disruptive ptosis
 - usually requires frontalis suspension
 - telecanthus
 - medial canthal repositioning places traction on the upper eyelid and may exacerbate the ptosis
 - multiple Z-plasties or Y-V-plasties + transnasal wiring of the medial canthal tendons
 - ectropion
 - orbital rim hypoplasia



Epicanthus

- usually bilateral
- medial canthal fold
- pathogenesis
 - immature midfacial bones
 - fold of skin and subcutaneous tissue
 - pseudostrabismus
 - child may appear esotropic
- 4 types
 - epicanthus tarsalis
 - most prominent in the upper eyelid
 - can be a normal variation of the Asian eyelid
 - epicanthus inversus
 - most prominent in the lower eyelid
 - frequently associated with BPES
 - epicanthus palpebralis
 - involves the upper and lower eyelids equally
 - epicanthus supraciliaris
 - arises from the eyebrow region and runs to the lacrimal sac
- management
 - observation is recommended until the face achieves maturity
 - most forms become less apparent with normal growth of facial bones
 - epicanthus inversus rarely resolves with facial growth
 - linear revisions (Z-plasty or Y-V-plasty)
 - isolated epicanthus
 - Y-V-plasty
 - epicanthus tarsalis in the Asian patient
 - ± construction of an upper eyelid crease



Euryblepharon

- associated with BPES
- clinical presentation
 - lateral portion of the eyelids is typically more involved
 - vertical shortening + horizontal lengthening of the involved eyelids
 - palpebral fissure often has a downward slant
 - inferiorly displaced lateral canthal tendon
 - impaired blinking
 - poor closure
 - lagophthalmos
 - exposure keratitis
 - if symptomatic
 - lateral canthal repositioning
- surgical reconstruction
 - suspension of suborbicularis oculi fat to lateral orbital rim to support lower eyelid
 - lateral tarsal strip or eyelid margin resection
 - for excess horizontal length
 - ± skin grafts



Congenital Ectropion

- etiology
 - isolated finding - rare
 - often associated with
 - BPES
 - Down syndrome
 - ichthyosis
- clinical presentation
 - vertical insufficiency of the anterior lamella of eyelid
 - chronic epiphora
 - exposure keratitis
 - mild cases - observation
- treatment
 - severe/symptomatic cases
 - treated like a cicatricial ectropion
 - horizontal tightening of the lateral canthal tendon
 - vertical lengthening of anterior lamella with full-thickness skin grafting
- management
 - complete eversion of upper eyelids
 - occasionally occurs in newborns
 - etiology
 - inclusion conjunctivitis
 - anterior lamellar inflammation or shortage
 - Down syndrome
 - topical lubrication
 - short-term patching of both eyes
 - full-thickness sutures
 - temporary tarsorrhaphy
 - definitive repair

