Entropion

Data acquisition

History

- symptoms
  - FB sensation/irritation
  - tearing
  - redness
- onset & course
- medications
  - miotics
- surgery/trauma/chemical burn
- infection
- autoimmune/autoreactive/allergic
- other skin lesions
  - SJS, MMP

Physical Exam

- facial/lid spasms
- epiphora
- conjunctival injection
- cornea
  - SPK/abrasion
  - ulcer
- involutional entropion
  - horizontal lid laxity
    - snapback and distraction testing
  - deeper-than-normal inferior fornix
  - herniated orbital fat
  - white subconjunctival line several millimeters below the inferior tarsal border
    - caused by the leading edge of the detached retractors
  - lower eyelid margin sits higher than normal
  - reverse ptosis of the lower eyelid
  - decreased lower eyelid excursion
    - little or no inferior movement of the lower eyelid on downgaze
  - orbicularis override
    - detected by observation of the preseptal orbicularis as the patient squeezes his or her eyes closed
  - digital eversion test
- cicatricial entropion
  - inspection of the posterior lamella reveals scarring
    - distinguishes cicatricial entropion from involutional entropion

Assessment

- entropion, involutional

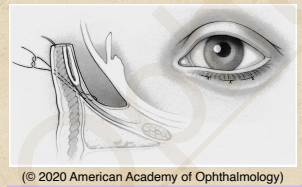
Treatment

Medical

- for SPK
  - aggressive lubrication
  - bacitracin
  - erythromycin
  - antibiotic ointment
- temporizing
  - adhesive tape
- for corneal involvement
  - bandage contact lens

Surgical

- involutional
  - horizontal lid tightening
  - lid retractor repair
- cicatricial
  - excision of scar tissue + skin/tarsal/conj grafts
- spastic
  - suture techniques (Quickert sutures)
    - recurrence is anticipated



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- Botox injection

Patient Education

- General
  - discuss possible recurrence
  - discuss treatment options
- Prognosis & Complications
  - corneal complications
- Follow-up
  - depends on severity of corneal involvement

Case Description

- elderly woman complains of foreign-body sensation and tearing of her right eye

Image Description

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- inversion of the right lower eyelid margin

Differential Diagnosis

- ***congenital***
- ***involutional entropion***
- ***cicatricial entropion***
  - mucous membrane pemphigoid
  - Steven-Johnson syndrome
  - trauma/surgery
  - chemical injury
  - radiation
  - infection
    - adenoviral conjunctivitis
      - EKC
    - beta-hemolytic streptococcal conjunctivitis
    - trachoma
    - herpes simplex
    - varicella zoster
  - autoimmune/autoreactive/allergic
    - atopic keratoconjunctivitis
    - rosacea/blepharitis
    - sarcoidosis
    - scleroderma
    - graft-vs-host disease
  - toxic blepharoconjunctivitis
    - ✔ pilocarpine
    - ✔ echothiophate iodide
    - ✔ demecarium bromide
      - acetylcholinesterase inhibitor
    - ✔ epinephrine
    - ✔ timolol
    - ✔ idoxuridine
  - linear IgA deficiency
    - can result in an ocular syndrome that is clinically identical to MMP
- ***spastic entropion***
  - essential blepharospasm
  - ocular irritation
  - surgical trauma

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