AMERICAN ACADEMY of OPTOMETRY

Severe Ocular Surface Disease

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Disclosure Statement

- Salaried, full-time employee of 501(c)3 non-profit Boston Foundation for Sight
- No proprietary interest in PROSE devices

ACADEMY 2012 PHOENIX

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Ocular Surface

The ocular surface
- cornea
- conjunctiva
- lacrimal glands
- tear film
- lid margins

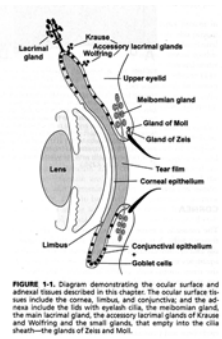


FIGURE 1-1. Diagram demonstrating the ocular surface and adnexal tissues described in this chapter. The ocular surface tissues include the cornea, limbus, and conjunctiva; and the adnexa include the lids with eyelash cilia, the meibomian gland, the main lacrimal gland, the accessory lacrimal glands of Krause and Wolfring and the small glands, that empty into the cilia sheath—the glands of Zeis and Moll.

from Gipson, Joyce, Zieske Smolin and Thorf's, The Cornea, 2005

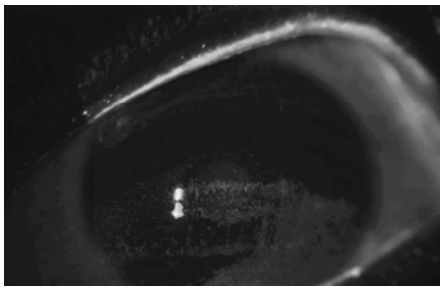
Severe Ocular Surface Disease

- Exposure
- Severe Dry Eye
- Diseases of the epidermis
- Corneal Stem Cell deficiencies
- Neurotrophic corneas

Exposure Keratopathy

- Neurogenic etiology
  - Bell's Palsy
  - Acoustic neuroma
  - Möbius syndrome

Exposure Keratitis



Bell's Palsy

- Paralysis CN VII
- Idiopathic
- Unilateral
- 60-80% of cases resolve
- Inability to close eye or blink
- Ectropian