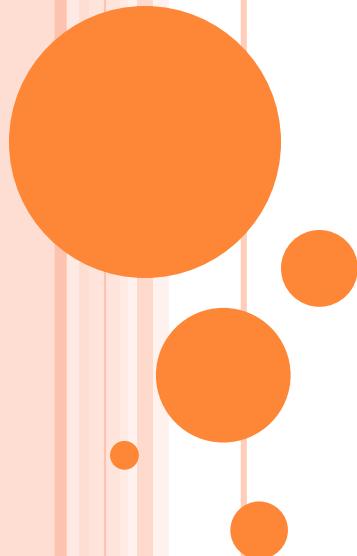
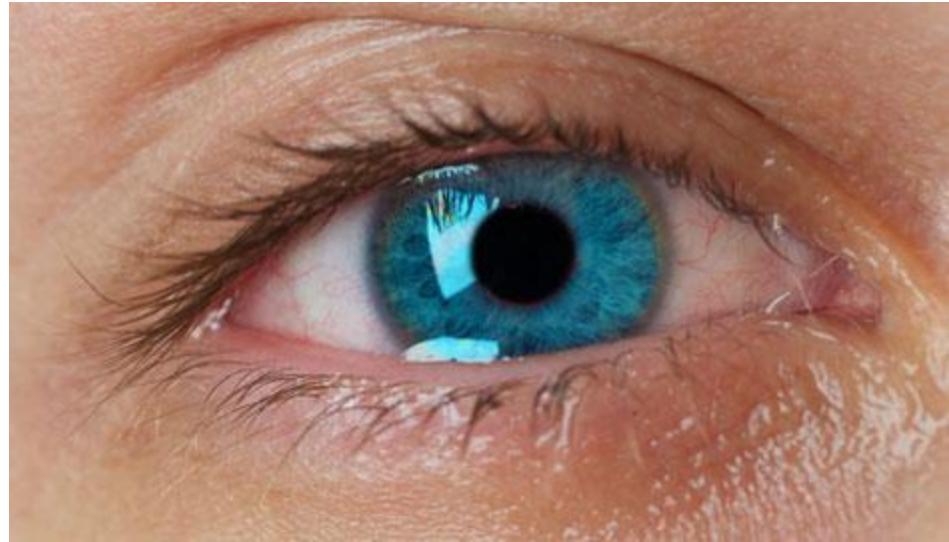


# WATERY EYES



*Dr. Irfan Ullah Khattak  
Pediatric Ophthalmologist  
HMC*

# EPIPHORA

- Watering that occurs secondary to abnormal excretory system



## LACRIMATION

- Watering that occurs secondary excessive tear production in presence of normal excretory system



# SECRETORY SYSTEM

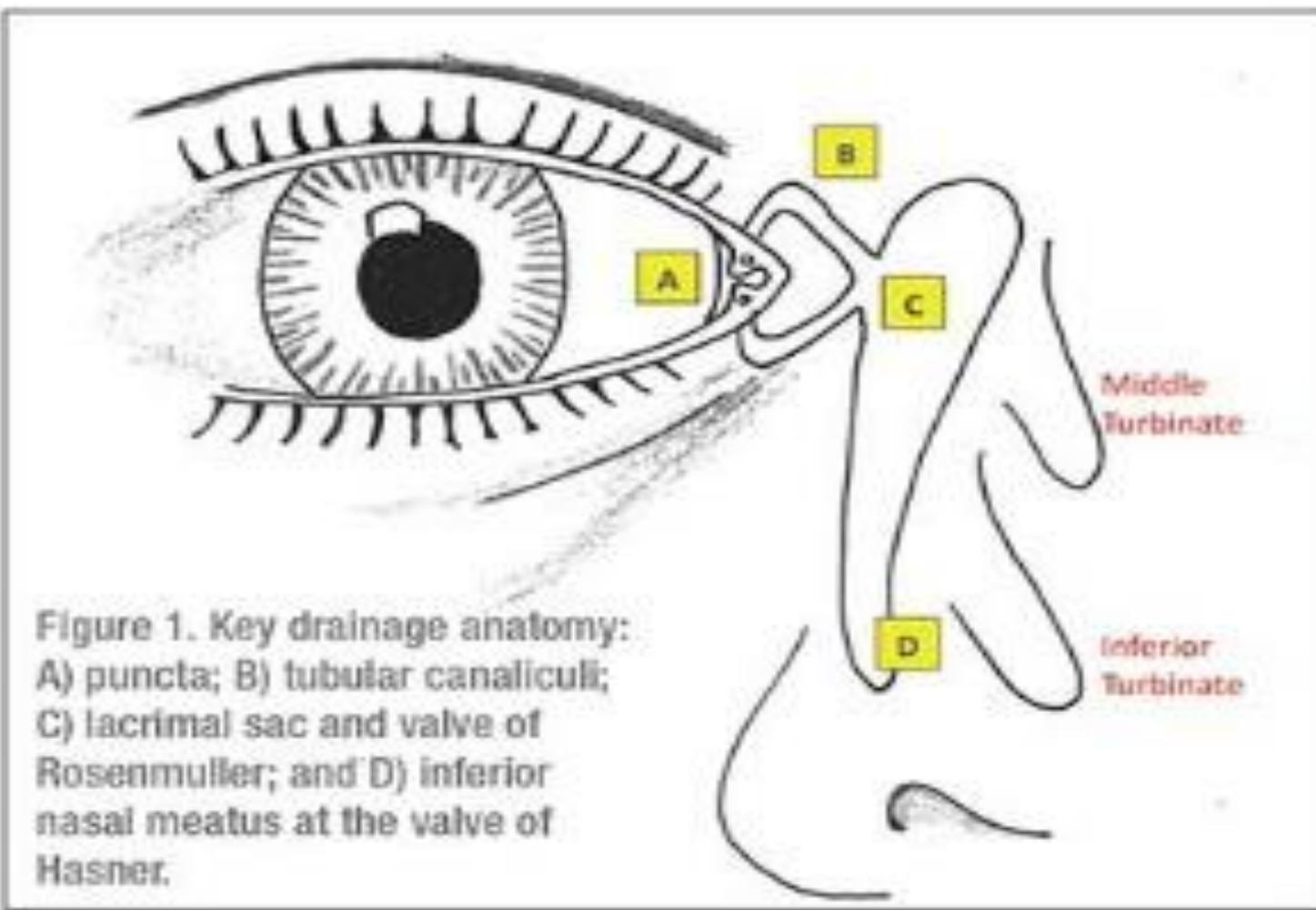
- Lacrimal gland
  - Orbital part
  - Palpebral part
- Accesory lacrimal gland
  - Krause
  - wolfring



# TEAR

- Smooth surface
- Nutrition
- Optical
- 3 layers
  - Mucin
  - Aquoues
  - Oil





# ECTROPION

- Senile
- Cicatricial
- Paralytic



# PUNCTAL STENOSIS

- Aging
- Conjunctivitis
- Ectropion



Figure 1: involutional punctal stenosis



# CHRONIC DACYROCYSTITIS

- Blockage of nasolacrimal duct
- Treatment:
  - Antibiotics
  - DCR



# CONGENITAL NASOLACRIMAL DUCT OBSTRUCTION

- Lacrimal massage
- Probing
- Balloon dilatation
- Closed intubation
- DCR

D/D: Cong Glaucoma



*Lacrimation*



# EMOTIONAL STRESS

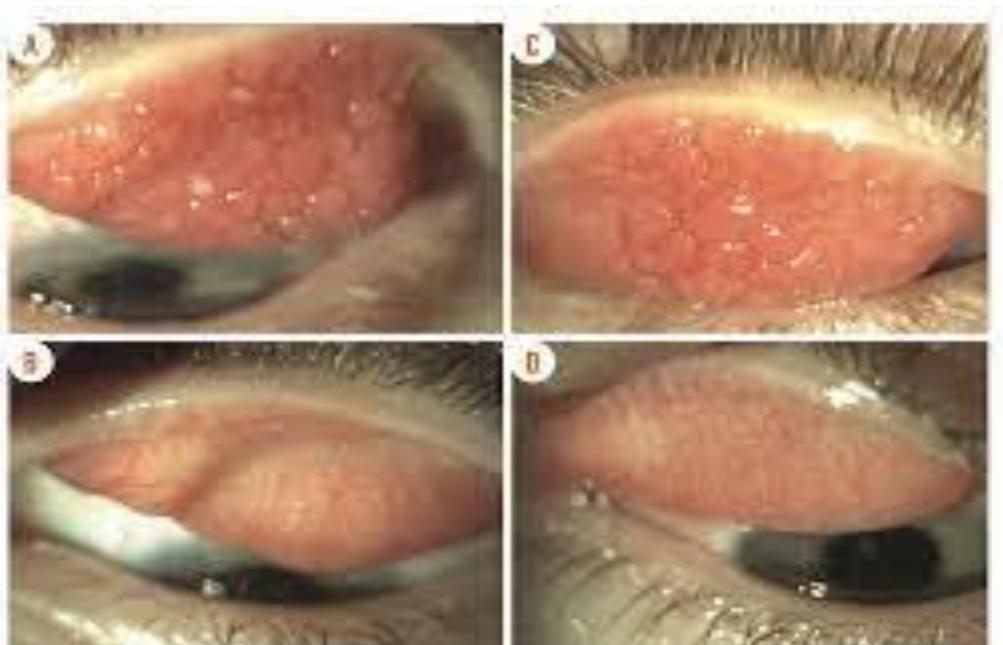


# COMMON COLD



# ALLERGIES

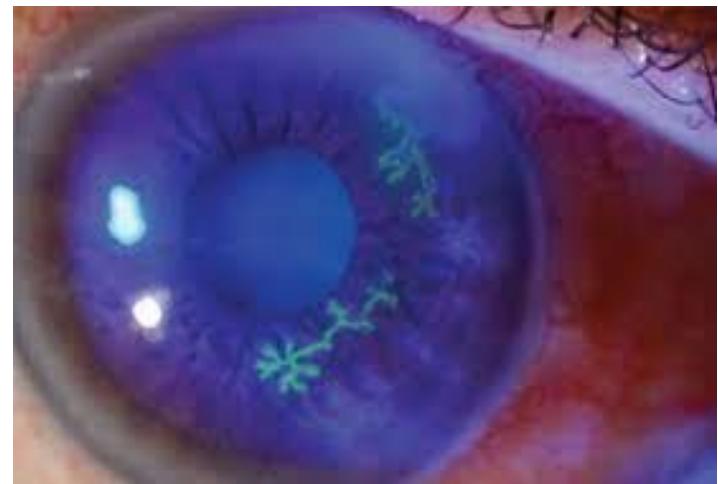
- Acute allergic reaction
- Vernal keratoconjunctivitis
- Atopic keratoconjunctivitis



Left eye before CsA (A) and after (B). Right eye before CsA (C) and after (D).  
Images courtesy of Andrea Leonardi, MD.

## INFECTIONS

- Bacterial keratitis
- Viral keratitis
- Fungal keratitis
- Conjunctivitis



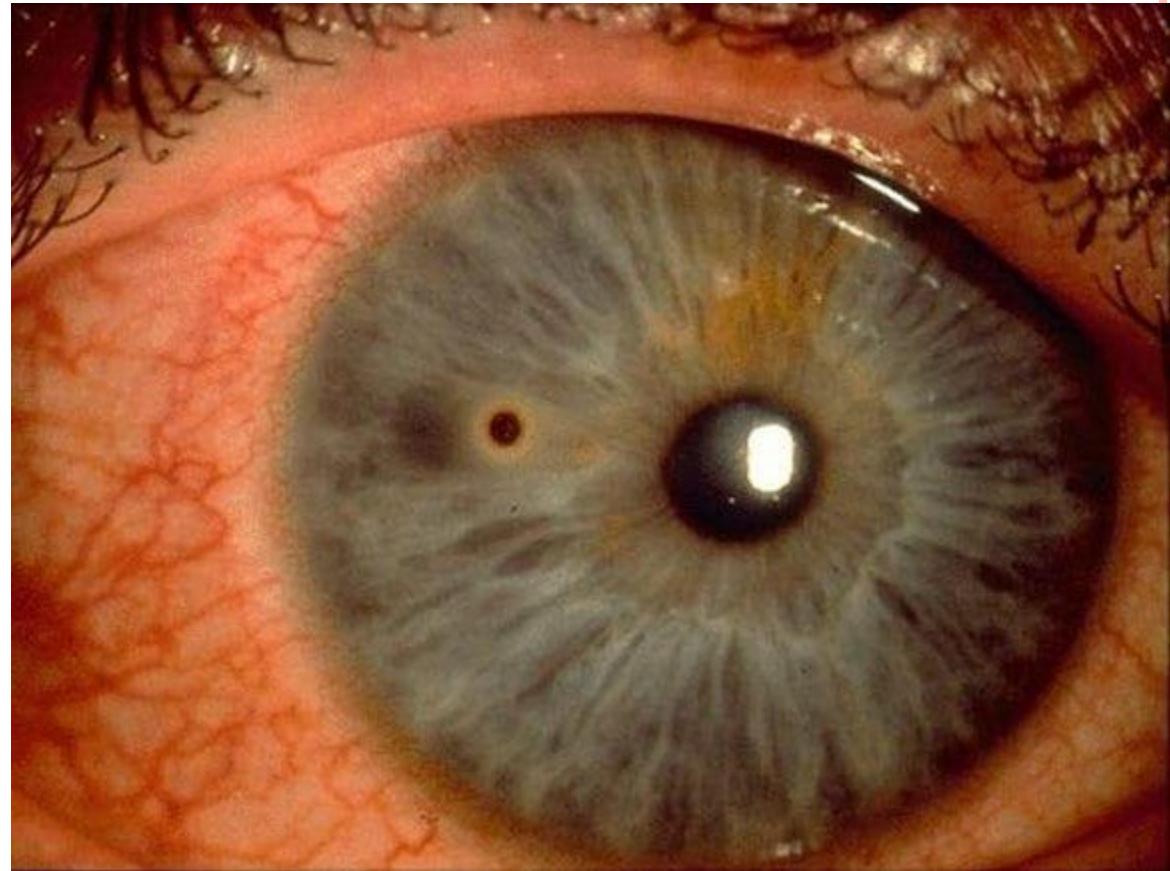
## INFLAMMATION

- Scleritis
- Episcleritis
- Pinguaculitis
- Conjunctivitis



## IRRITATION

- Foreign body
- Trichiasis
- Entropion
- Chemical injury



# DRY EYES

- **Reflex tearing**
  - Keratoconjunctivitis sicca/Sjogren syndrome
  - SJS
  - Blepharitis



THANK

YOU !