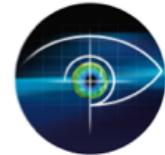




DIAGNOSTIC & THERAPEUTIC APPROACHES IN OPHTHALMOLOGY

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Chapter 4

Skills 28-33

- Conjunctivitis
- Conjunctival tumors
- Criteria for D/D

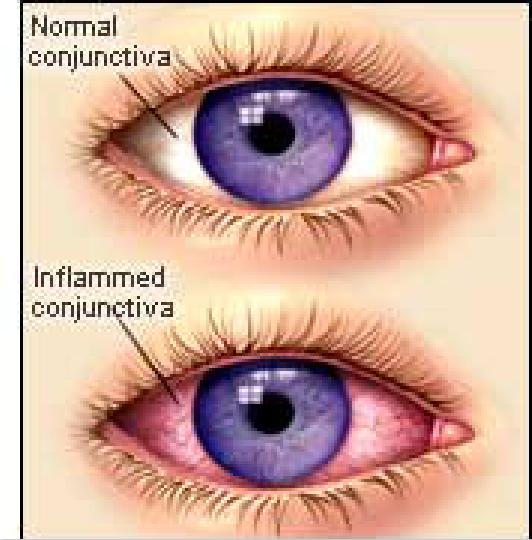
TS 28 : Conjunctivitis symptoms

Depends on the cause !!!

■ Conjunctivitis types

- Infectious
 - Bacterial
 - Viral
- Allergic
- Toxic (irritations)

Conjunctivitis



■ Common symptoms → Red eye, Chemosis, Pain

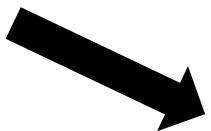
TS 28 : Conjunctivitis symptoms

- Frequent involvement of
 - Lid margins → Blepharitis
 - Cornea → Keratitis
- Chronic conjunctivites...
 - Dry eye-related
 - Exacerbate with UV & dry environment
 - Mucous discharge
 - Do not interfere with vision



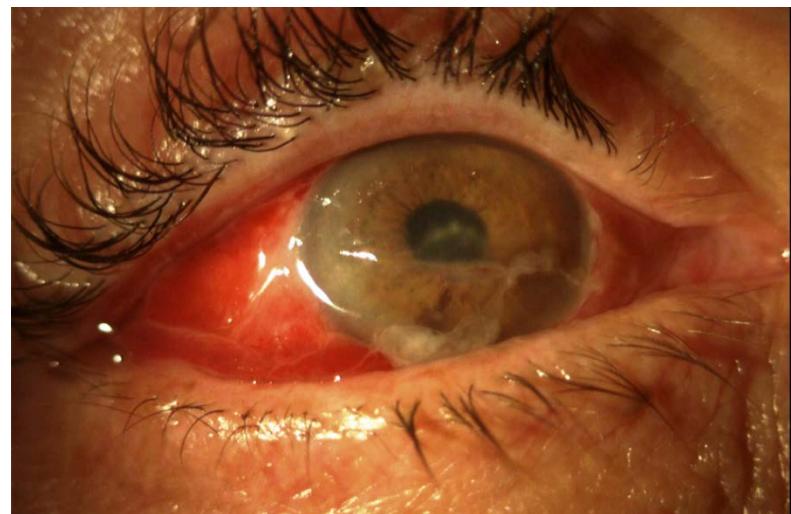
Allergic conjunctivitis

- Itchiness
- Watery or mucous discharge
- Conjunctival papillae
- Seasonal distribution
- Younger patients



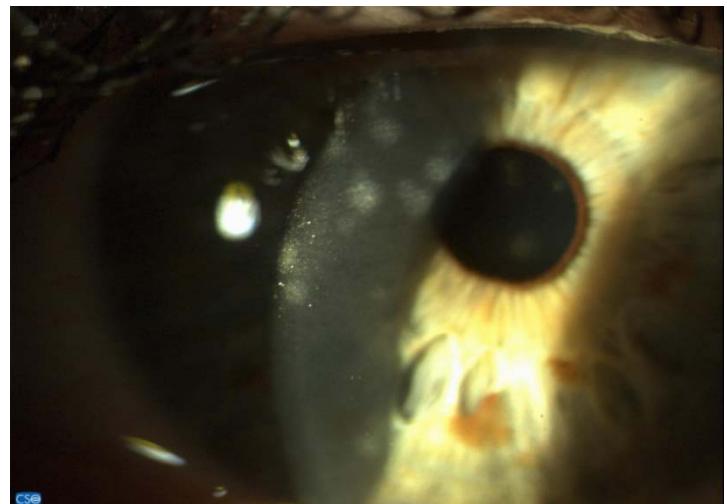
Bacterial conjunctivitis

- Mucopurulent discharge
- Does not interfere with vision
- Sticky eyelashes
- Frequently unilateral
- Antibiotics



Viral conjunctivitis

- Epidemic (adeno-virus)
- Cornea is often affected
 - ↓
 - Pain/Photophobia/Blurry vision
- Very watery eye
- Fellow eye usually involved within the first week after initial appearance



Recurrent conjunctivitis

Unilateral in elderly



Chronic dacryocystitis-
associated



Bilateral



Blepharitis-associated



TS 29 : Conjunctivitis causes

Acute

- *Infectious:*
 - ✓ Bacterial
 - ✓ Viruses (adenoviruses)- seasonal distribution
 - ✓ Chlamydia-end of summer
 - ✓ Mimics allergic conjunctivitis
- *Allergic:*
 - ✓ Allergies during spring and blooming seasons

Chronic

- *Environmental-refractive errors:*
 - ✓ Dry Eye, UV
 - ✓ Hyperopia, astigmatism, presbyopia
- *Infectious:*
 - ✓ Local spreading and flare ups
 - ✓ Dacryocystitis
 - ✓ Blepharitis

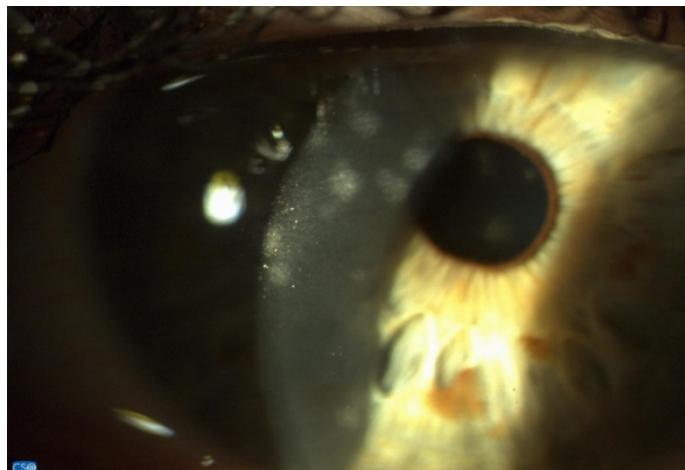
TS 30 : Ophthalmia neonatorum

- Newborns
- 1-3 days postnatal
- Bilateral
- Maternal genitourinary track contamination during delivery
- Very rare in developed world
- Penicillin fortified drops



Keratoconjunctivitis epidemica

- Contamination: Direct or indirect
- Incubation period: 3-7 days lasting \geq 2 weeks
- Watery discharge
- Fellow eye is affected 3-5 days after initial presentation
- Pre-auricular lymph node sensitive
- Symptomatic treatment



TS 31 : Antibiotic eye drops

- 1st line:
 - Tobramycin
 - Gentamycin
 - Chloramphenicol
- 2nd line:
 - Quinolones (1-2 drops every 4-6 hours)
- 5-7 days treatment at least!
- *Caution: Not every acute conjunctivitis is bacterial in nature*

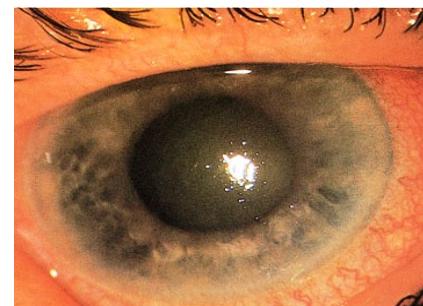


NB: **Tobradex** contains **dexamethasone** (steroid)



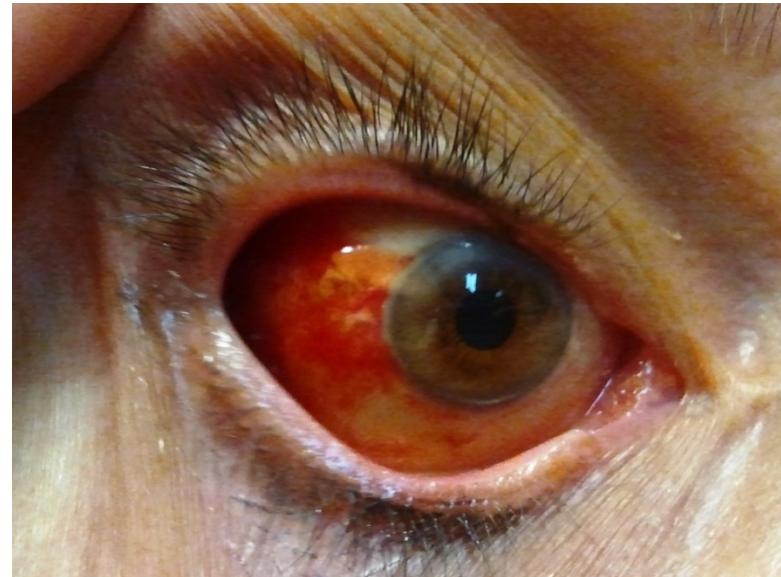
TS 32 : Criteria for D/D

- Between:
 - i. Subconjunctival haemorrhage
 - ii. Conjunctivitis
 - iii. Scleritis
 - iv. Keratitis
 - v. Iritis
 - vi. Acute angle closure glaucoma



Hypospagma - Subconjunctival hemorrhage

- Although impressive in appearance, condition is trivial
- Painless
- Visual acuity remains unaffected
- Hx: ? diabetes or BP
- Recurrences may be common



Scleritis

- Local redness
- Deep pain, sensitivity
- Vision is not affected
- Autoimmune disease affecting connective tissue



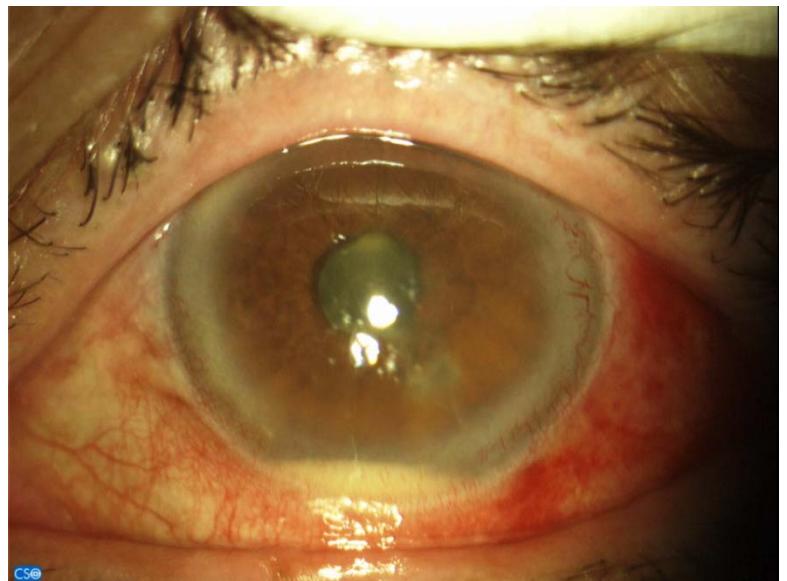
Keratitis

- Acute superficial pain worsening during blinking
- Blurry vision/Photophobia
- Purulent discharge is associated with corneal ulcer
- Limbal injection
- Causes: CL, trauma, immuno-compromised patients



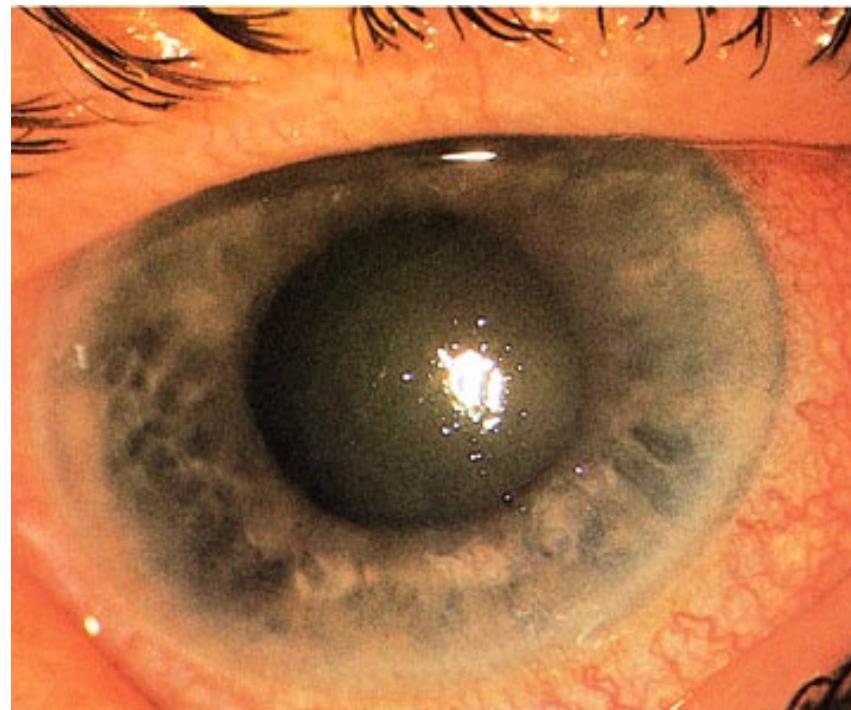
Iritis

- Redness, limbal injection
- Photophobia: light evokes miosis and causes slow, deep pain
- Infectious or systematic causes
- Blurry vision



Acute angle closure Glaucoma

- Deep slow pain, projecting to orbit
- Cloudy cornea
- Mid-dilated, non-reacting pupil
- Blurry vision, photophobia



TS 33 : Conjunctival tumours

■ Benign degenerative changes

- Pterygium

- Vascularized granulation tissue that invades cornea

- Pingueculum

- Triangular conj. patch consisting of hyaline and elastotic degeneration



- Differentiate from nevi, papillomas & malignancies (squamous cell Ca)



Electronic Referrals - 4th Chapter

1. <http://emedicine.medscape.com/article/797874-overview>
2. <http://emedicine.medscape.com/article/1191730-overview>
3. <http://emedicine.medscape.com/article/1191370-overview>
4. <http://emedicine.medscape.com/article/1191467-overview>
5. <http://webeye.ophth.uiowa.edu/eyeforum/cases/68-Adult-Chlamydial-Conjunctivitis-Red-Eyes-Chronic.htm>
6. <http://www.aafp.org/afp/2010/0115/p137.html>
7. <http://emedicine.medscape.com/article/1192190-overview>
8. <http://www.aoa.org/documents/CPG-11.pdf>
9. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2776793/>
10. <http://emedicine.medscape.com/article/1192527-overview>