

## The painful red eye

Condition	Common features	Management
<b>Abnormal eyelid</b>		
Chalazion, stye	Chalazion (Meibomian cyst): nodule in eyelid. Stye (hordeolum): red painful external lesion.	Warm compresses. Topical/PO ABx if stye.
Acute blepharitis	General eyelid inflammation	Daily lid hygiene, lubrication, topical ABx.
Herpes zoster	Monocular vesicular rash. V <sub>I</sub> N distribution. If tip of nose involved then cornea too (nasociliary n.)	Oral <b>aciclovir</b> <72h. Refer if eye red or ↓vision.
<b>Abnormal cornea</b>		
HSV Keratitis	May be Hx/signs of other HSV site (cold sores). Dendritic ulcer with fluorescein	Topical <b>aciclovir</b> . Refer <24h.
Marginal keratitis	Secondary to blepharitis, peripheral ulcer.	Discuss with ophthalmologist.
Bacterial ulcer or acanthamoebal	History of contact lens wear. Epithelial defect with opacified base.	Refer immediately.
Trauma/Arc eye	See Ocular trauma.	Remove FB. Topical ABx, cycloplegics, analgesia.
<b>Conjunctivitis</b>		
Viral	Burning sensation & watery d/c. Recent contact with URTI (esp children). May spread to other eye. Highly contagious. Commonly adenovirus.	Cool compresses, lubricants q2h. May take weeks to heal. <b>CI</b> : Steroids. Refer if photophobia or ↓acuity. Consider Chlamydia or other Dx if >3wk.
Bacterial	Tender conjunctivae. Purulent d/c. Often bilateral.	Hygiene. Topical ABx qid x5d. Refer if persistent or ↓acuity.
Allergic	Itchy. Hx atopy. Prominent papillae. Clear d/c.	Cool compresses, lubricant. <b>Cromaglycate</b> drops (Opticrom) or topical vasoconstrictor.
Dry eyes	Chronic, worse in evening. ?systemic disease.	Lubricants. Refer non-urgently.
<b>Other</b>		
Acute angle closure glaucoma	Severely painful, haloes around lights, may be systemically unwell (nausea, vomiting, headache). Usually > 50yo. Decreased acuity, hazy cornea, fixed, semi-dilated or oval pupil. IOP>21mmHg.	Urgent referral. Stop any precip drugs (anticholinergic/β-agonist/mydriatics). Rx: <b>Acetazolamide</b> 500mg IV stat then 250mg PO q8h or <b>mannitol</b> . <b>Pilocarpine</b> 2% 1 drp q5m x6 then qid. <b>Timolol</b> 0.5% 1 drp bd. ± prednisone 0.5% TOP. Analgesia. Surgery.
Acute anterior uveitis (Iritis)	Photophobia, blurred vision, headache, pain. May ↓acuity & ciliary injection. Pupils may be small or irregular ±hypopyon. Can→glaucoma.	Within 24 hours. Urgent referral if hypopyon. May req. steroids if no evidence of corneal infection.
Scleritis	Gradual onset of boring pain ± ↓vision, thickened red sclera ±blue nodules. ?systemic disease (connective tissue diseases, RA, gout, syphilis and less commonly, TB, sarcoidosis and HT), drugs (NSAIDs, steroids, anti-metabolites)	Urgent referral. Analgesia, topical steroids if no infections, cycloplegics.

## The painless red eye

Condition	Common features	Management
Blepharitis	General eyelid inflammation	Lid hygiene, lubrication, refer if not improving
Ectropion	Lower lid out-turned showing conjunctiva	Topical lubrication, refer if not improving
Entropion	Lower lid in-turned ± corneal abrasion	Lubricate. Tape eyelid back from cornea. Mx as for corneal abrasion.
Pterygium	Raised yellow fleshy lesion at limbus (can become inflamed & painful)	Lubrication, sunglasses, non-urgent ophthalmology referral
Subconjunctival haemorrhage	Blood under conjunctiva. Assoc with minor trauma or sudden increase in local BP.	Check BP, coags if indicated, treat any cough or vomiting. Reassure: should resolve over 3wk.
Episcleritis	Normal acuity, localised patch of redness/injection. No discharge.	Refer if there is more than slight discomfort or if it fails to settle spontaneously over ~ 1 week.