



# University Hospital Galway

EMERGENCY DEPARTMENT  
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## Eye Emergencies

(<https://galwayem.ie/index.php/guidelines/trauma-and-musculoskeletal/eye-emergencies>)

Category

Trauma and Musculoskeletal (<https://galwayem.ie/index.php/guidelines/trauma-and-musculoskeletal>)

The unilateral red eye is a common presentation to Emergency Departments. The most common cause is probably conjunctivitis but there are some important diagnoses to exclude first. Visual acuity must be recorded in all cases.

### **Red Flags in the Red Eye**

The following things suggest a more serious cause for a red eye than simple conjunctivitis:

- Decreased visual acuity
- Photophobia
- Abnormal fluorescein staining of cornea
- Severe pain
- Cloudy anterior chamber
- Contact lens wearer
- Past history of iritis or associated conditions
- Foreign body sensation (suggestive of active corneal process)
- Irregular or non reactive pupil

### **Conjunctivitis**

- Common
- Normal cornea on fluorescein stain, with no corneal opacities
- Beefy red conjunctiva under the lids
- Purulent discharge, especially in the morning
- Normal vision (apart from a bit of blur from discharge on the cornea)
- The differentiation between viral, bacterial and allergic conjunctivitis can be difficult for the non-ophthalmologist
- If you think it may be of bacterial origin it is reasonable to treat conjunctivitis with chloramphenicol drops 1-2 hourly during the day and ointment at night-time.

### **Corneal Ulcer (non-traumatic)**

- Usually more painful than conjunctivitis, often with decreased visual acuity
- Diagnosis obvious on fluorescein staining of cornea. Dendritic pattern is suggestive of herpes simplex
- Use of contact lenses is suggestive of microbial infection

Treatment:

Refrain from contact lens use until healed  
Refer to Ophthalmology

### **Acute Angle-closure Glaucoma**

Rare but serious.

The presentation is often dramatic

Keys to diagnosis:

- Pain, often severe
- Decreased visual acuity
- Cloudy cornea
- Patient generally looks and feels unwell
- Pupil may be fixed mid-dilated
- Photophobia
- Increased intraocular pressure

Treatment

- Immediate referral to Ophthalmology.

### **Iritis (Anterior uveitis)**

- Not uncommon cause of red eye
- Auto-immune inflammation of iris +/- ciliary body
- Sometimes associated with other auto-immune conditions.

Keys to diagnosis:

- Painful red eye
- Photophobia ++
- No discharge
- Often have a past history of iritis
- Cloudy anterior chamber activity
- Pupil may be irregular and poorly reactive to light.

All patients should be referred to Ophthalmology.

Treatment essentially consists of topical steroids and mydriatics.

### **Subconjunctival Haemorrhage**

- Common, usually spontaneous but may be caused by straining
- Painless except for mild foreign body sensation
- Check BP
- No specific treatment is needed.
- Usually resolves within two to six weeks

### **Corneal Foreign Bodies**

- Orbits should be x-rayed if Hx of using power tools or hammer and chisel.
- Corneal Foreign Bodies (CFB's) should be removed using the slit-lamp
- Instil one drop of Benoxinate (local anaesthetic) into the affected eye
- Examine the cornea
- A fluorescein examination should always be performed to assess for further corneal damage
- Use a 25 gauge needle on a 5ml syringe to remove the FB. Ask how to do this.
- Most rust-rings from metallic FBs can be removed on the same day with the 25 gauge needle. If unable, refer to Ophthalmology. Avoid over vigorous attempts at removal.
- All patients should be examined for subtarsal foreign bodies by eversion of the lids
- Prescribe antibiotic ointment, such as chloramphenicol tds until the foreign body sensation disappears
- Follow-up for small foreign bodies or abrasions is on a prn basis

Those with large abrasions or decreased visual acuity should be followed up by ophthalmology

- Eye patching is only indicated for a couple of hours after using local anaesthetic.
- Oral analgesia may be required

**Steroid eye drops are NOT to be prescribed by Emergency Department Staff**  
**Local anaesthetic drops should not be given as TTAs.**

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