Červené oko – diferenciální diagnostika



Červené oko

 Červené oko" je znamení pro patologii předního nebo zadního segmentu očního, očnice nebo očních adnex.

Anamnesa

- Systémová onemocnění
- Oční onemocnění
- Rozvoj očních obtíží
- Charakter obtíží (typ bolesti, sekrece…)

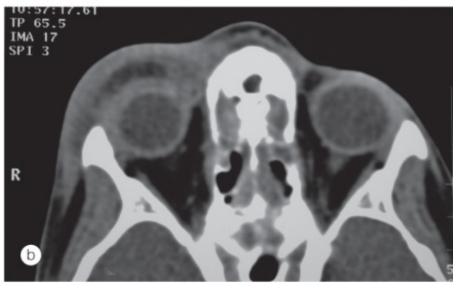
Orbit – preseptal cellulitis

Infection of the subcutaneous tissues anterior to the orbital septum.

Causes

- Skin trauma laceratio, insect bites (S. aureus or S. pyogenes)
- Spread of local infection from an acute hordeolum or dacryocystitis.
- From remote infection of the upper respiratory tract or middle ear by haematogenous spread
- Signs Unilateral, tender and red periorbital oedema





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Orbit - Bacterial orbital cellulitis

- Life-threatening infection of the soft tissues behind the orbital septum, mainly in children
- The most prevalent causative organisms are S. pneumoniae, S. aureus, S. pyogenes and H. influenzae.

Pathogenesis

- Sinus-related ethmoidal, typically affects children and young adults.
- Extension of preseptal cellulitis
- Local spread from adjacent dacryocystitis, and mid-facial or dental infection
- Haematogenous spread

Orbit - Bacterial orbital cellulitis

Presentation is with a rapid onset of severe malaise, fever, pain and visual impairment

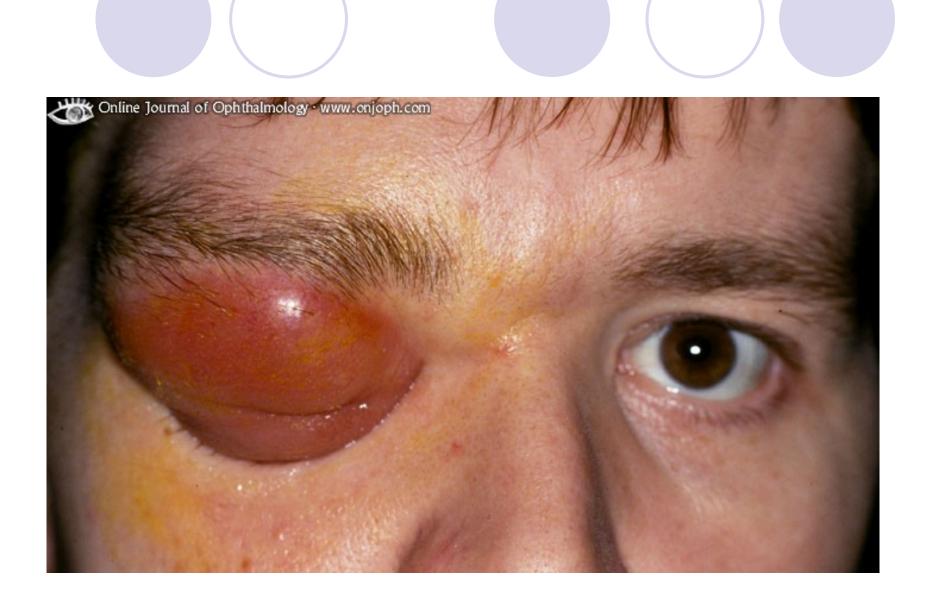
Signs

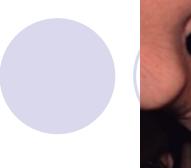
- Unilateral, tender, warm and red periorbital oedema
- Proptosis, lid swelling
- Painful ophthalmoplegia
- Optic nerve dysfunction

Orbit - Bacterial orbital cellulitis

Complications

- Ocular complications exposure keratopathy, raised intraocular pressure, occlusion of the central retinal artery or vein, endophthalmitis and optic neuropathy
- Intracranial complications meningitis, brain abscess and cavernous sinus thrombosis
- Subperiosteal abscess along the medial orbital wall
- Orbital abscess in post-traumatic or postoperative cases.









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Dry Eye Disorders

- There is inadequate tear volume or function resulting in an unstable tear film and ocular surface disease.
- Keratoconjunctivitis sicca (KCS) refers to any eye with some degree of dryness.
- Xerophthalmia describes a dry eye associated with vitamin A deficiency.
- Xerosis refers to extreme ocular dryness and keratinization that occurs in eyes with severe conjunctival cicatrization.
- Sjögren syndrome is an autoimmune inflammatory disease which is usually associated with dry eyes.

Dry Eye Disorders

Symptoms

 feelings of dryness, grittiness and burning worsen during the day, transient blurring of vision, redness and crusting of the lids



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Conjunctiva

- Conjunctival injection is diffuse, beefy-red and more intense away from the limbus
- Instillation of 10% phenylephrine drops will constrict the conjunctival and superficial episcleral vasculature



- Bacterial H. influenzae, S. pneumoniae, S. aureus
- Papillary reaction over the tarsal plates
- Mucopurulent discharge
- Gonococcal keratoconjunctivitis pseudomembrane formation, Lymphadenopathy, Corneal ulceration



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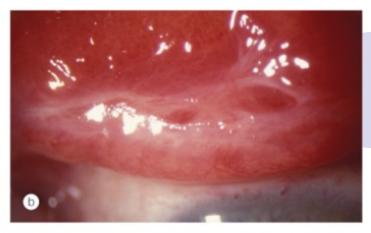
Viral conjunctivitis

- Adenoviral keratoconjunctivitis the most common external ocular viral infection
- Sporadic or occur in epidemics in hospitals, schools and factories
- Transmission of this highly contagious virus -respiratory or ocular secretions
- Dissemination is by contaminated towels or equipment such as tonometer heads

Presentation

- Unilateral watering, redness, discomfort and photophobia
- The contralateral eye is typically affected 1-2 days later, but less severely
- Eyelid oedema and tender pre-auricular lymphadenopathy.
- Follicular conjunctivitis







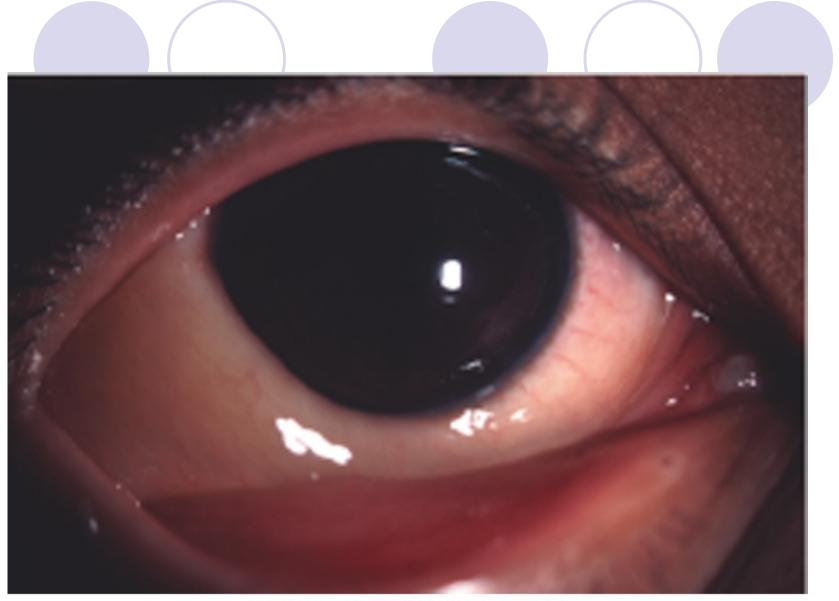






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- Acute allergic rhinoconjunctivitis
- Seasonal allergic conjunctivitis (hay fever) onset during the spring and summer
- The most frequent allergens are tree and grass pollens
- Perennial allergic conjunctivitis causes symptoms throughout the year with exacerbation in the autumn when exposure to house dust mites, animal dander and fungal allergens is greatest
- Presentation redness, watering and itching, associated with sneezing and nasal discharge



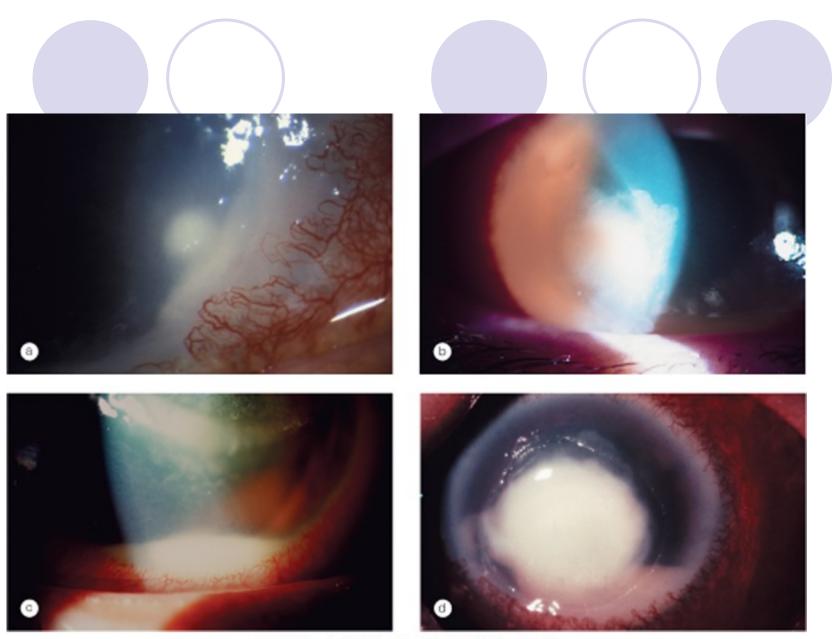
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Cornea – infectious keratitis

- Keratitis bacterial (P. aeruginosa ,S. aureus, S. pyogenes)
- Risk factors Contact lens wear, trauma
- Presenting symptoms pain, photophobia, blurred vision and discharge

Signs

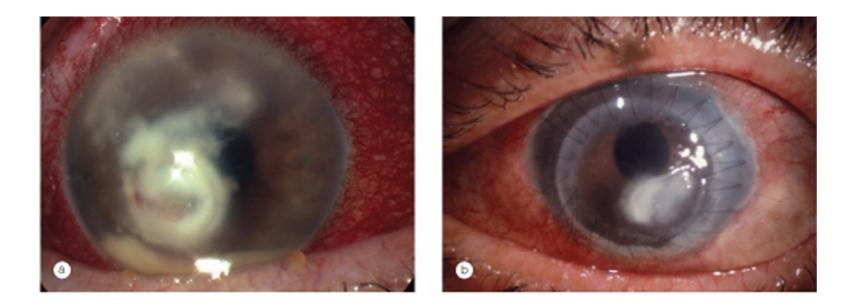
- An epithelial defect, infiltrate around the margin, circumcorneal injection
- Stromal oedema and small hypopyon
- Progressive ulceration may lead to corneal perforation and endophthalmitis.



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Cornea – infectious keratitis

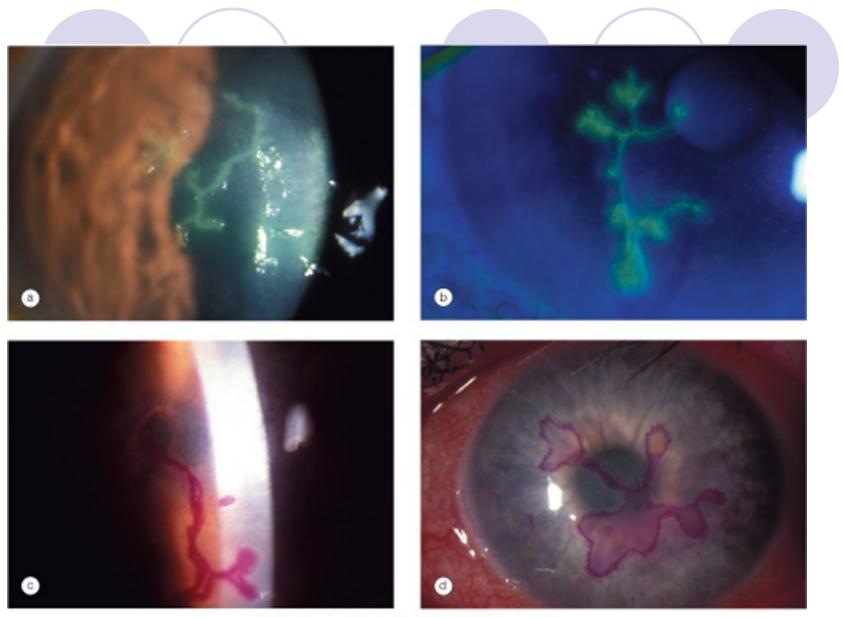
 Keratitis – fungal (stromal infiltrate with indistinct margins, surrounded by satellite lesions, hypopyon)



Cornea – infectious keratitis

Keratitis viral – herpes simplex virus

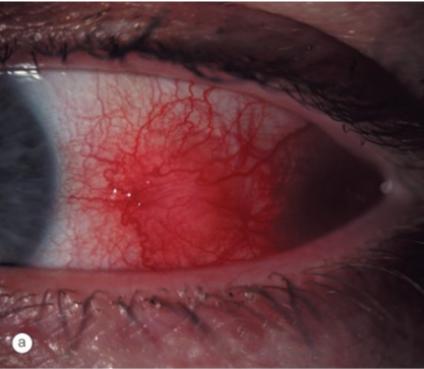
 linear-branching (dendritic) ulcer, corneal sensation is reduced

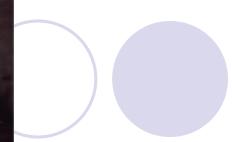


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Episclera

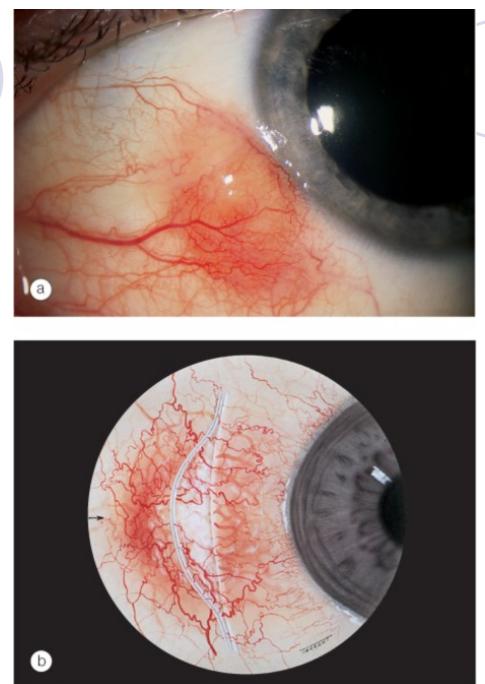
- Episcleritis simple (sectoral or diffuse), nodular – young, female
- Presentation always sudden
- The eye becoming red and uncomfortable within an hour of the start of an attack - hotness, pricking or generalized discomfort
- Without systemic associations







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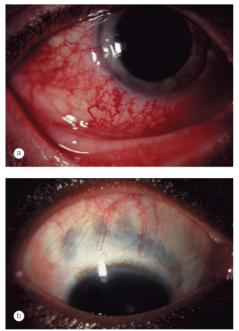




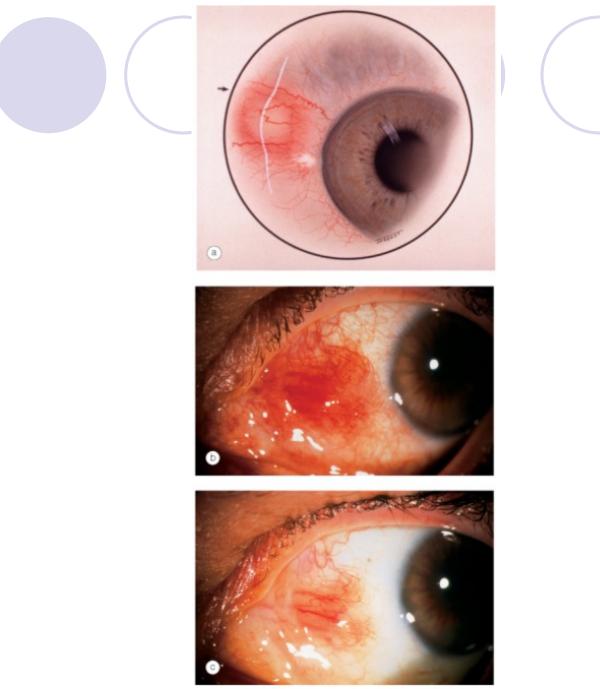
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Sclera

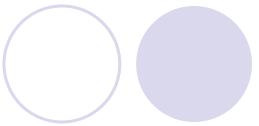
- Scleritis oedema and cellular infiltration of the entire thickness of the sclera
- Anterior non-necrotizing scleritis diffuze or nodular
- Redness,pain which may spread to the face and temple



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Sclera

- Necrotizing anterior scleritis with inflammation
- pain severe and persisten
- Scleral thinning due to necrosis allows the blue choroid to show through the translucent hydrated scar tissue that has replaced normal sclera









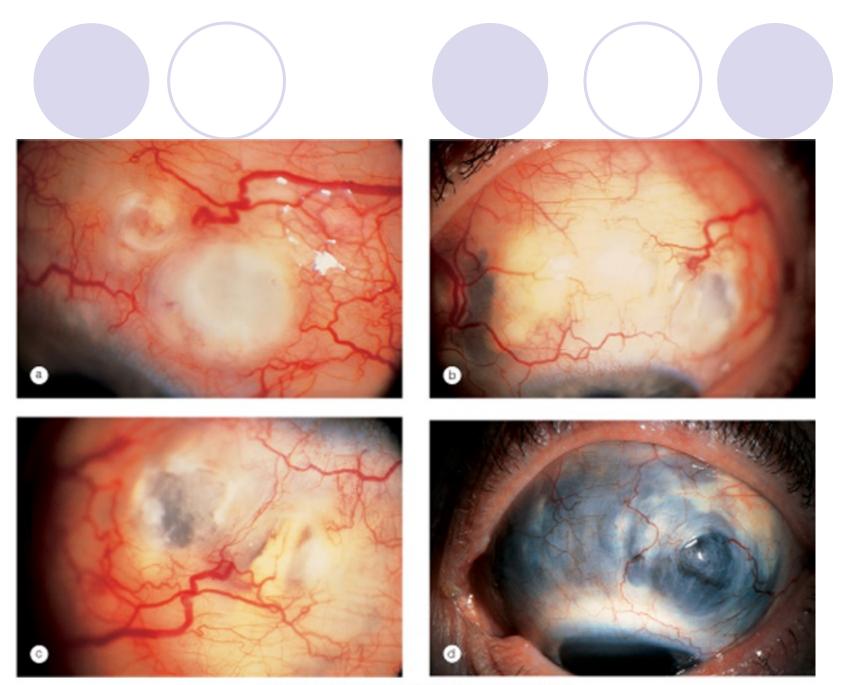




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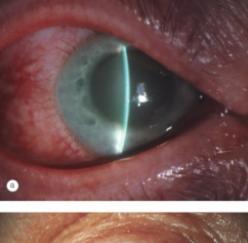
Sclera

- Scleromalacia perforans
- Specific type of necrotizing scleritis without inflammation that typically affects elderly women with long-standing rheumatoid arthritis
- Yellow scleral necrotic plaques near the limbus without vascular congestion

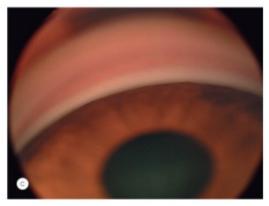


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Glaucoma - Acute congestive angle closure







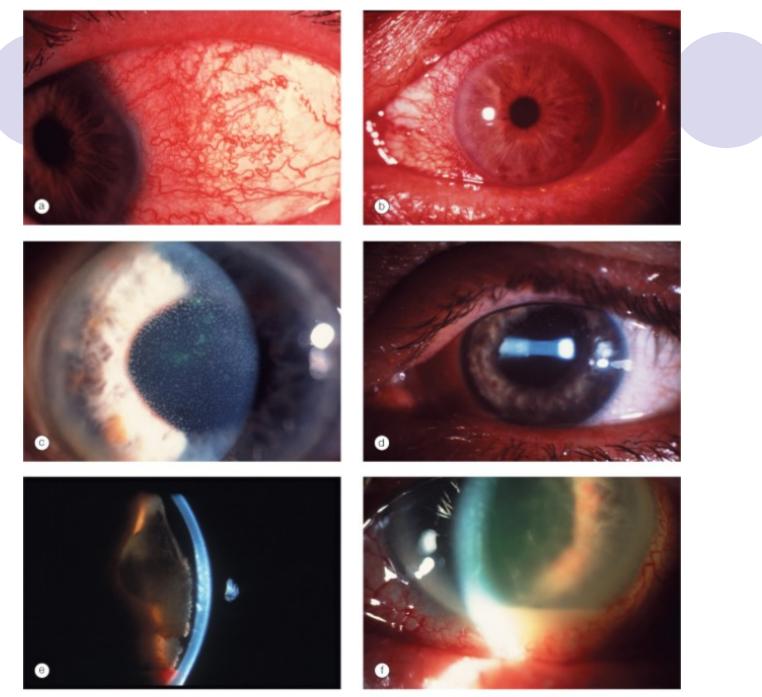
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Uveitis

- Anterior uveitis may be subdivided into:
- Iritis in which the inflammation primarily involves the iris.
- Iridocyclitis in which both the iris and ciliary body are involved
- Ciliary injection peripheral hyperemia of the anterior ciliary vessels which produces a deep red or rose color of the corneal stroma, and must be distinguished from hyperemia of the conjunctival vessels. May spread to the perilimbic corneal tissue. Called also ciliary flush.

Anterior uveitis

- Ciliary (circumcorneal) injection
- Miosis due to sphincter spasm Endothelial dusting by myriad of cells is present early and gives rise to a 'dirty' appearance
- Aqueous cells
- Aqueous flare reflects the presence of protein due to a breakdown of the blood-aqueous barrier
- Aqueous fibrinous exudate
- Hypopyon
- Posterior synechiae may develop quite quickly and must be broken down before they become permanent

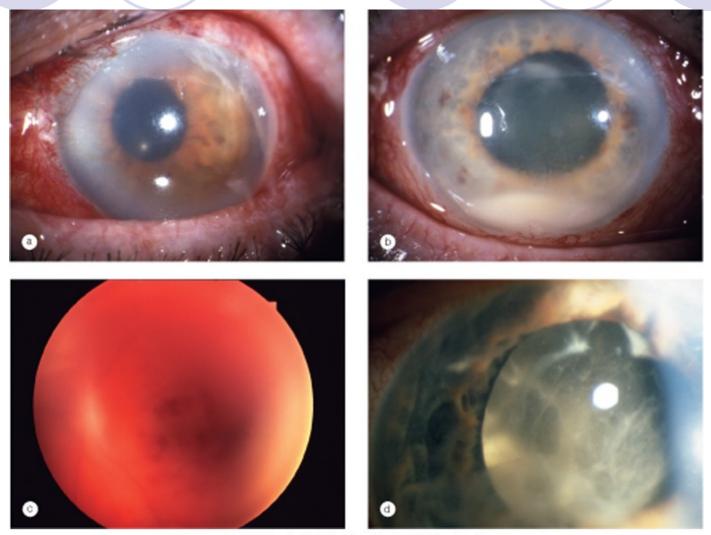


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Acute endophtalmitis

- Acute inflammation of all ocular structure
- Endogennous or exogennous (surgery,trauma)
- Signs chemosis, corneal injection, relative afferent pupil defect, corneal haze, fibrinous exudate and hypopyon, vitritis with impaired view of the fundus

Acute endophthalmitis



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