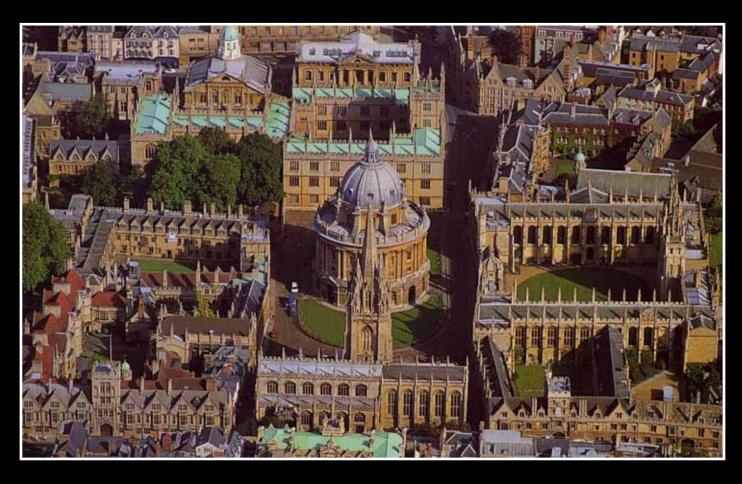
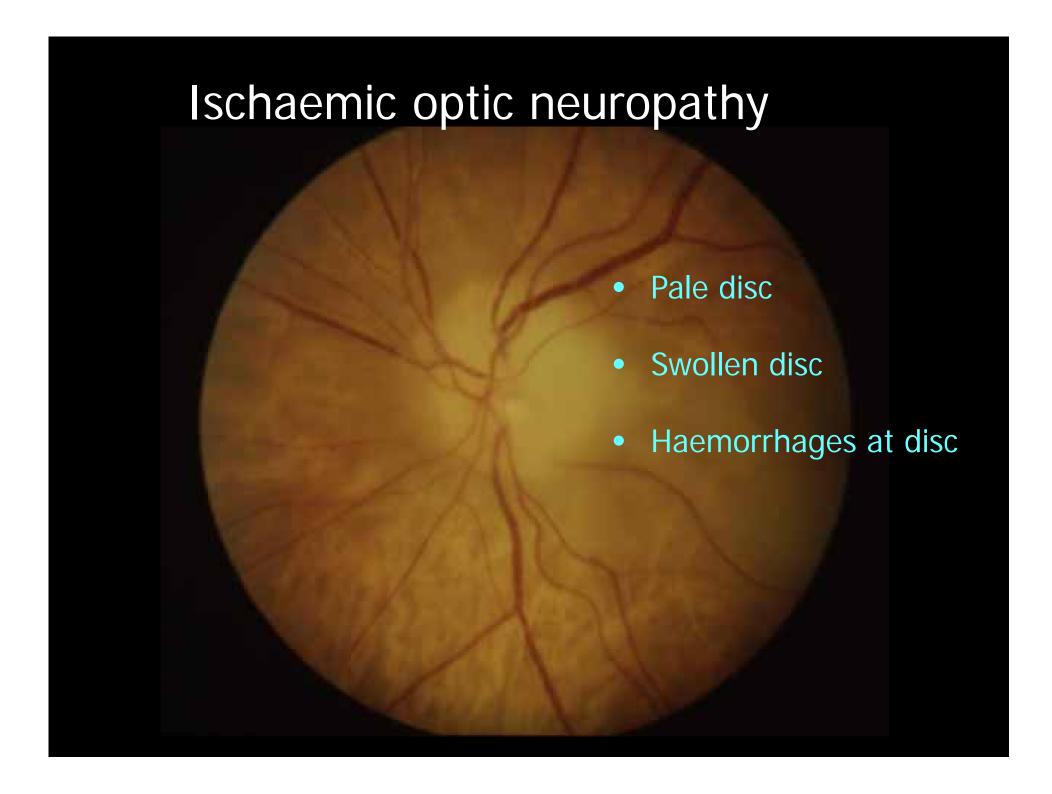
Acute Cases



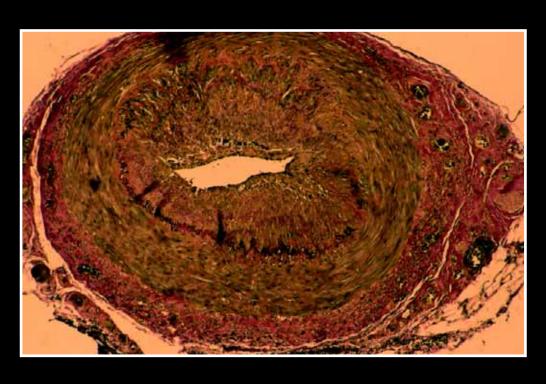
John F Salmon MD FRCS FRCOphth Consultant Ophthalmic Surgeon Oxford Eye Hospital

History

- 75-year old female presents with a one-day history of unilateral painless loss of vision
- Headache in the temporal region
- Jaw claudication
- Weight loss



Giant cell arteritis

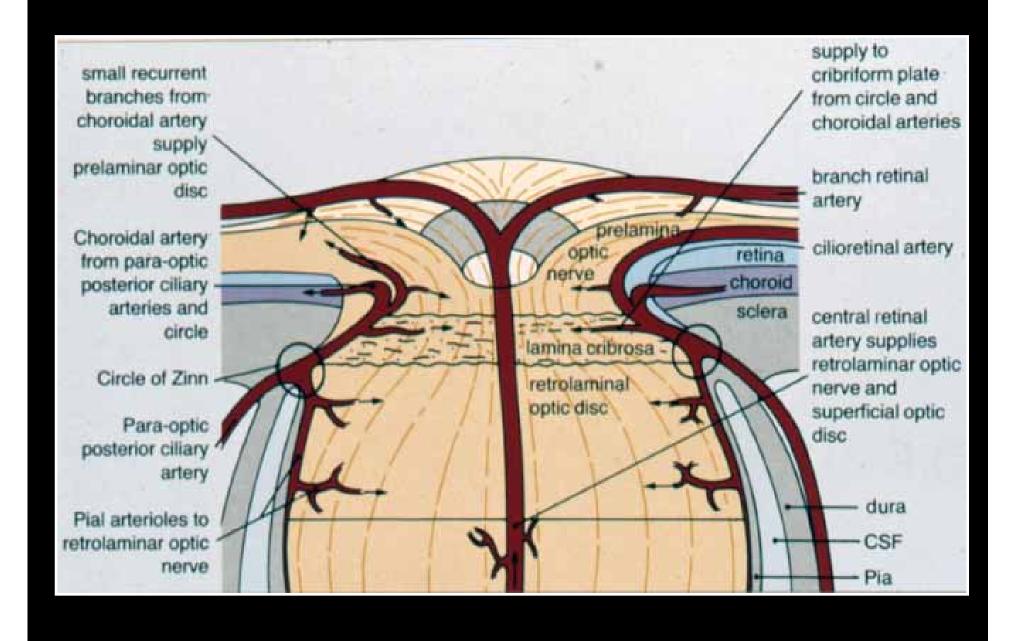


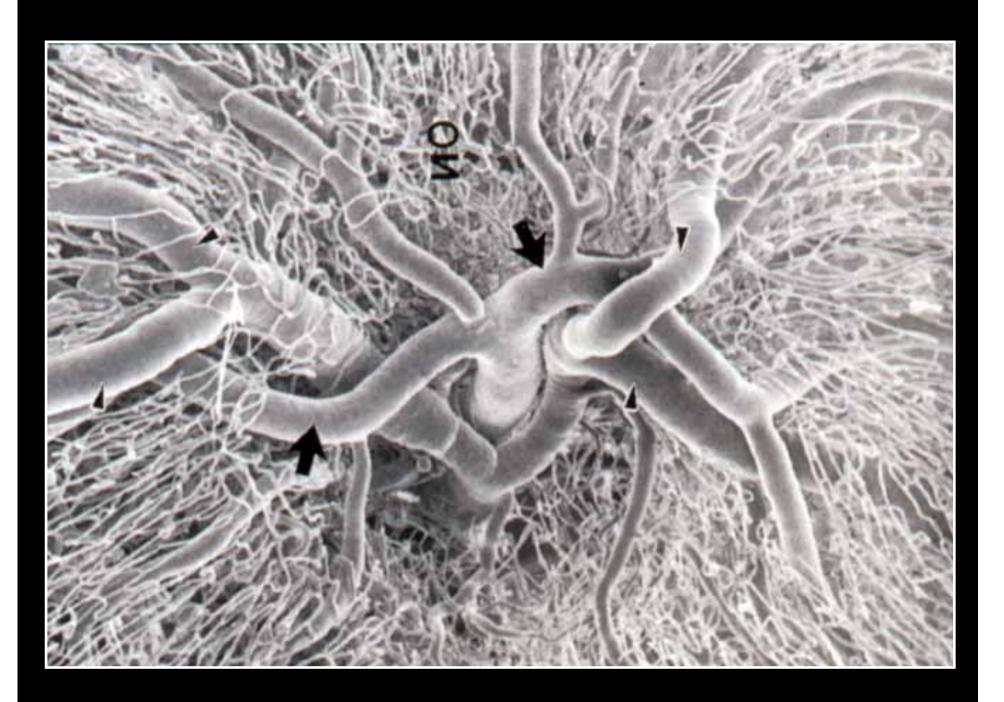
- Temporal headache
- Jaw claudication
- Polymyalgia rheumatica
- Raised ESR & CRP

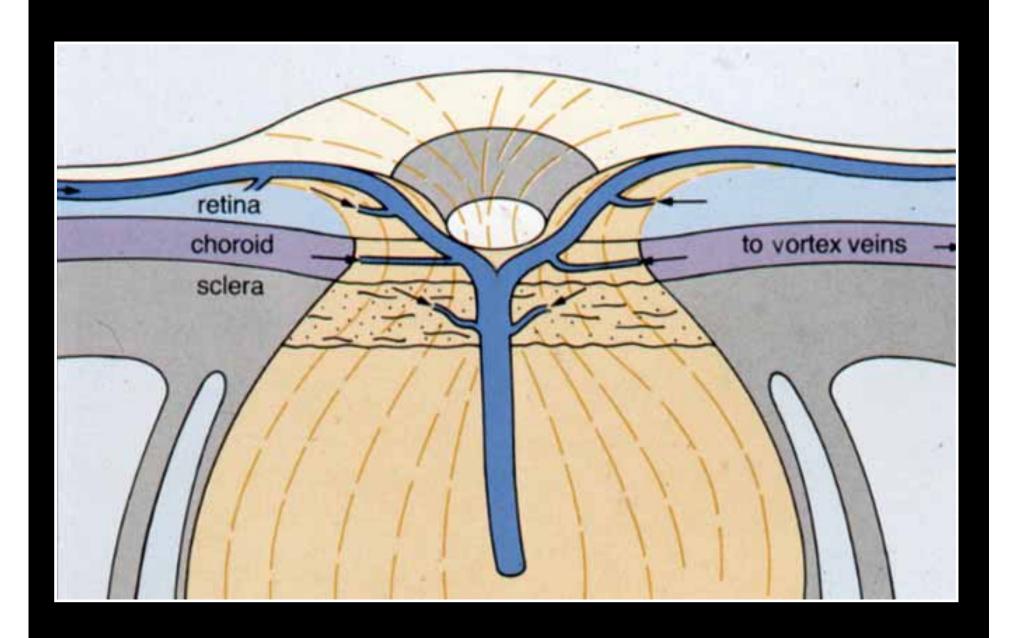
Treatment

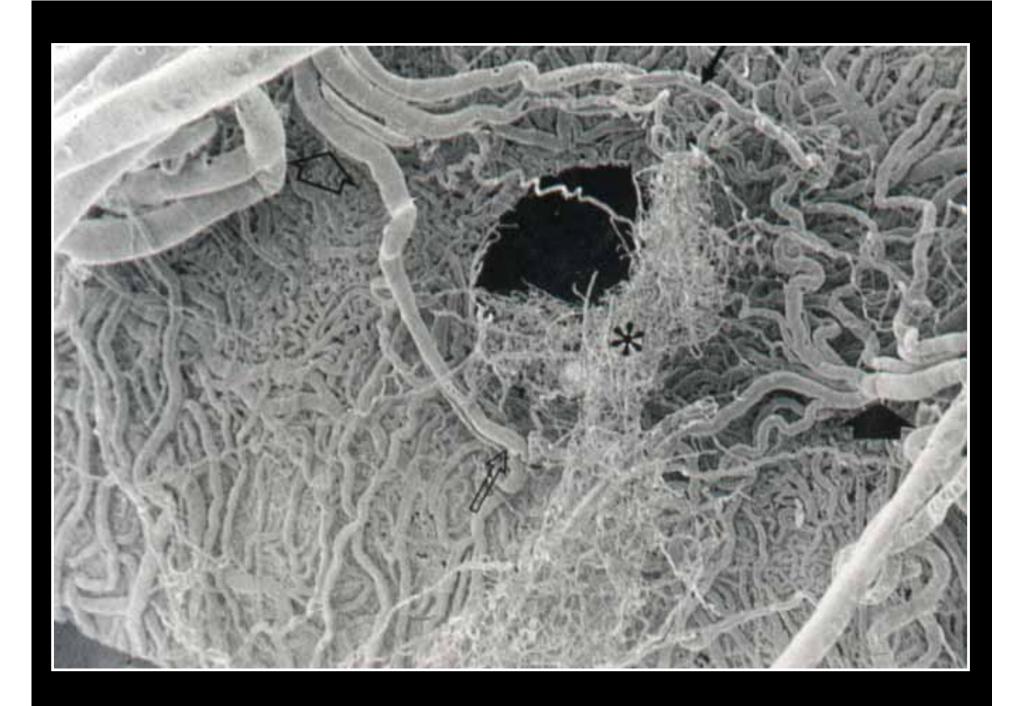
Urgent intra-venous methyl prednisolone
500 mg

Refer for specialist opinion





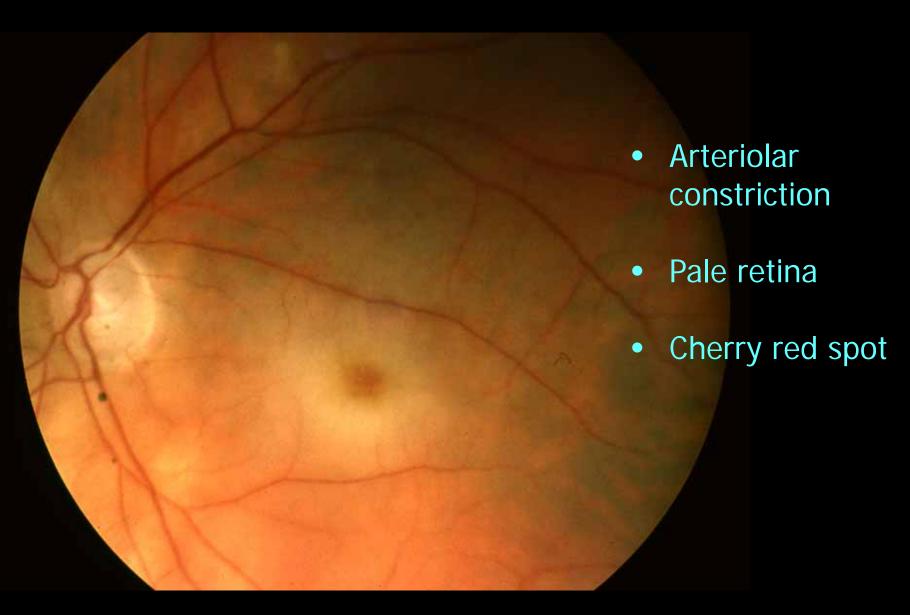




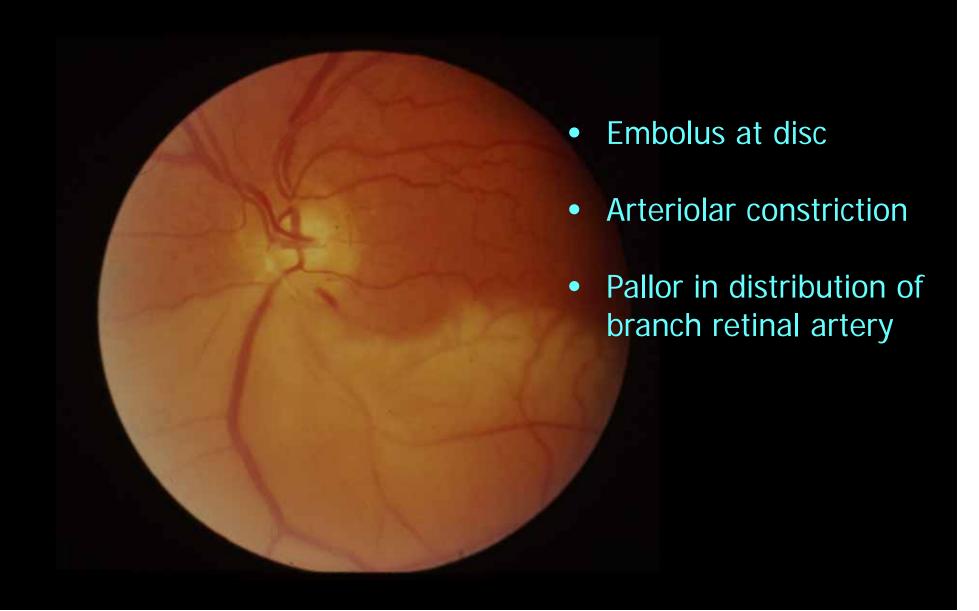
Take home messages

- Remember to exclude temporal arteritis by checking the ESR and CRP
- Consider non-arteritic causes especially the risk factors of hypertension, diabetes and smoking

Central retinal artery occlusion



Branch retinal artery occlusion



Take home message

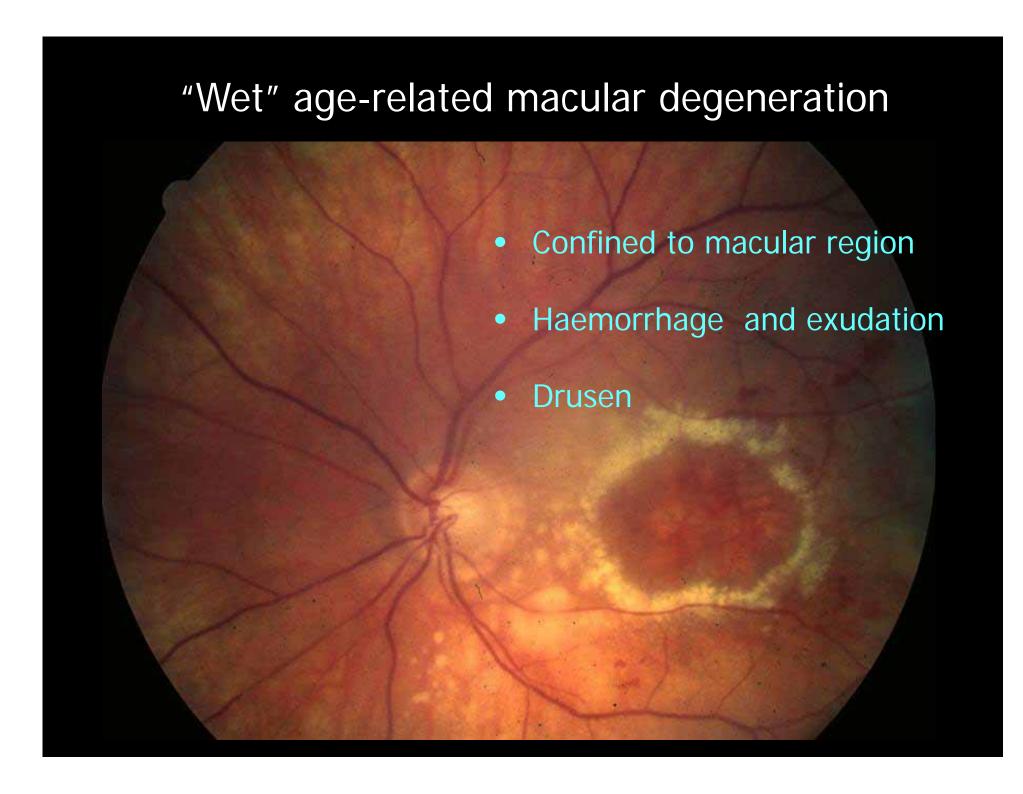
Remember to look for the source of the embolus in the cardiovascular system



- Venous distention
- Retinal haemorrhages
- Macular oedema

Take home message

Remember to check for hypertension, diabetes, and blood dyscrasia

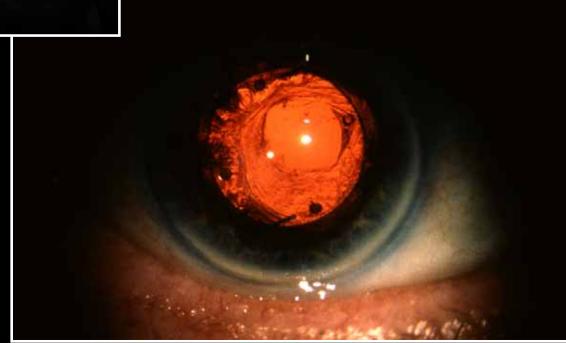


Take home messages

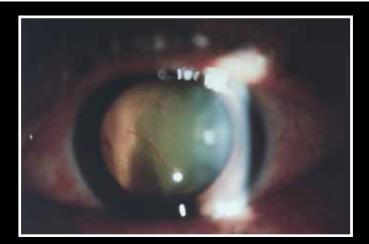
- The vision can stabilised by injecting intra-ocular antibody against VEGF (Lucentis or Avastin)
- Refer within 2 weeks of onset of symptoms



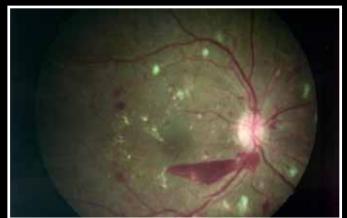
Vitreous haemorrhage



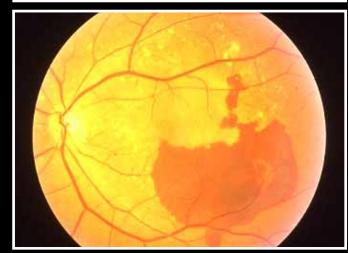
Retinal tear or detachment



Proliferative diabetic retinopathy



Choroidal neovascular membrane



Take home message

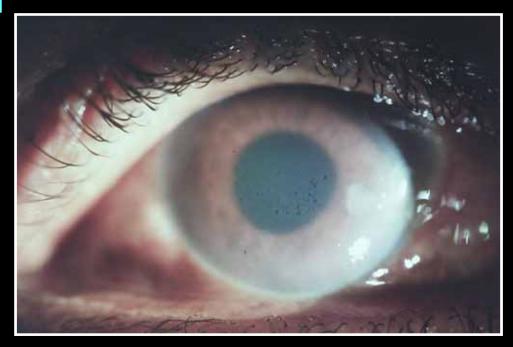
Acute loss of the red reflex is a sign of vitreous haemorrhage and underlying retinal pathology is often present

Causes of sudden painless monocular loss of vision

- Ischaemic optic neuropathy
- Retinal artery occlusion
- Retinal vein occlusion
- Acute haemorrhage from choroidal neovascular membrane
- Vitreous haemorrhage

History

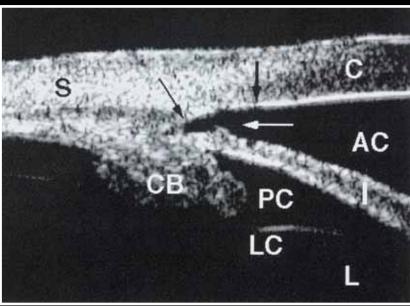
- A 62-year old woman presents with a painful left eye with visual loss and haloes
- Diagnosis: acute congestive angle closure



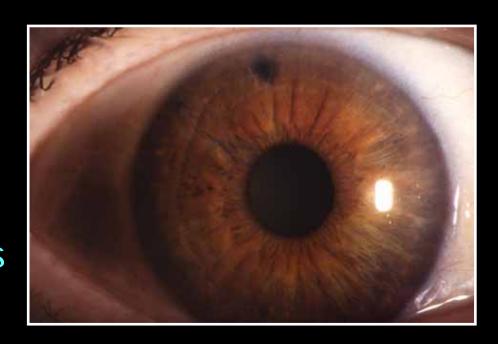
Anatomical factors

- Short axial length results in anterior lens position
- Lens thickness increases with age
- Lens thickness is greater than age-matched normals

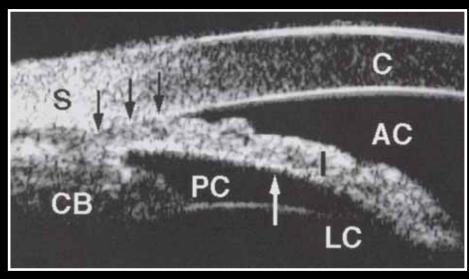


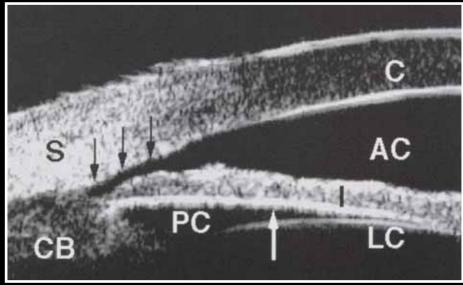


- Medical treatment to reduce intraocular pressure and corneal oedema
- Laser iridotomy solves the problem



Pupillary block treated with laser iridotomy





Take home message

Refer any patient with a unilateral painful red eye and visual loss for urgent ophthalmic assessment

Bacterial corneal ulcer



- Unilateral painful red eye
- Often secondary to contact lens wear
- Insert fluoroscein
- Do not use antibiotics before a corneal scrape is undertaken
- Refer to specialist

Herpetic corneal ulcer

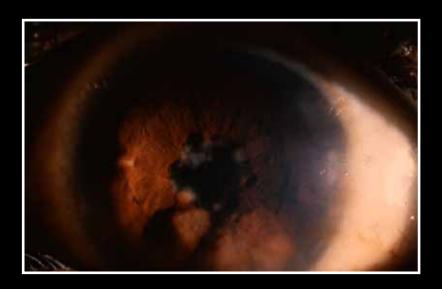


- Unilateral painful red eye
- Dendritic pattern
- Avoid topical steroids
- Responds to acyclovir

Acute iritis



- Unilateral painful red eye
- Visual loss & photophobia
- Refer to specialist



- Usually responds to intensive topical steroids
- Look for underlying cause

Acute scleritis



- Acute painful red eye
- Visual loss
- Commonly associated with rheumatoid arthritis
- Commence antiinflammatory treatment
- Refer urgently to specialist