

4th October '17

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• Structure of routine post-operative assessment

• Slit lamp examination

• Fundoscopy

Administration





• History: any problems (pain, blurred vision, flashes & floaters)

• Visual acuity: unaided, best corrected

• Refraction

• Slit lamp examination





Conjunctival redness

• Corneal clarity and wound integrity

• AC activity

• Intraocular pressure

• Pupil abnormality

• IOL Implant position and capsular transparency





• Undilated: if VA good and clear view

- Dilated: if poor VA, poor view, or listing other eye
- Macula: cystoid macular oedema, (AMD)
- Vitreous: PVD and pigment cells
- Retina: retinal tear, retinal detachment, retinal haemorrhages





• Fill in forms

 Spectacle prescription = refractive result, even if no specs prescribed

• List other eye: Y/N

 Keep 1 copy, return other to hospital with invoice



• Eyedrop sensitivity / allergy

- Corneal oedema & wound-related issues
- Raised IOP
- Iritis and iris-related issues
- Capsular opacification and phimosis
- Cystoid macular oedema
- Retinal tears and detachment
- Endophthalmitis
- Refractive surprise

Eyedrop Sensitivity / Allergy



- Most common with neomycin in maxitrol; also chloramphenicol, preservatives; very rarely to steroid component
- Red, sore, itchy
- Sub-tarsal follicles
- Skin rash



Drop Allergy







- Intra-operative endothelial trauma
- More likely if prior endothelial problems: corneal guttata, Fuchs dystrophy
- Widely varying degrees
- Common in first few days
- Mild oedema may persist few weeks
- Rarely permanent, requiring corneal graft







- Blurred vision, mild discomfort
- Cornea reduced transparency
- Focal (esp near wounds) or diffuse
- Cornea may be visibly thickened
- Descemets membrane folds
- CHECK IOP

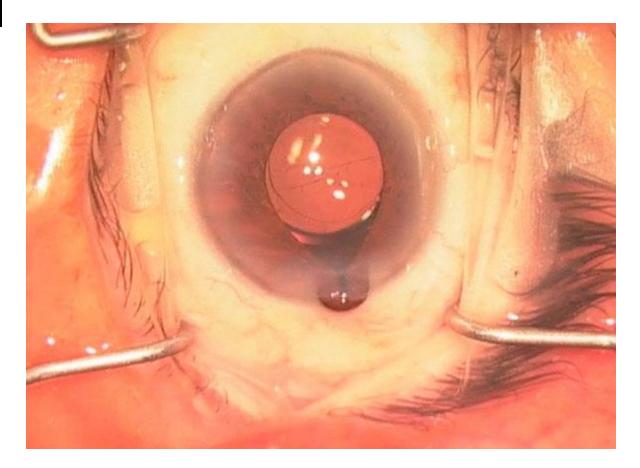


Wound Problems

- Wound usually not sutured
- Stepped self-sealing wound
- May be asymptomatic
- Major wound problems predispose to infection, inflammation, hypotonous eye problems
- Mild gape to iris prolapse
- May require suturing / BCL



• • Iris Prolapse





Raised IOP

- Mild degree at 1-2 days postop
- More common in glaucoma and OHT
- May be secondary to uveitis, steroid drop use
- If high, may cause corneal oedema, retinal artery and vein occlusions
- Can be prolonged, leading to optic disc cupping / glaucoma



• • Uveitis

 Discomfort to painful • Blurring Photosensitivity Ciliary Injection Cells and flare Hypopyon o Fibrin o KPs

Posterior synechiae



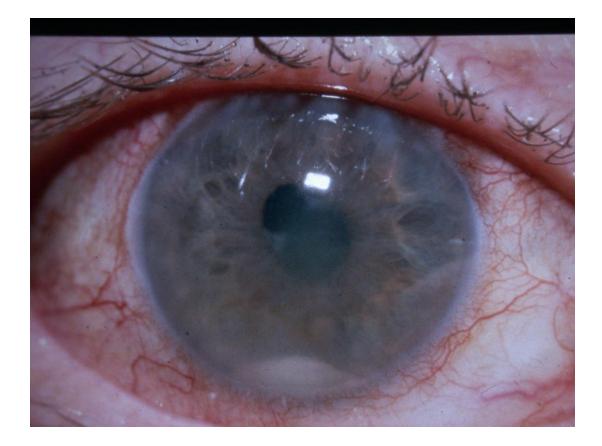
• Always some post-op uveitis

• Problematic when severe or recurs following cessation of drops

 Need to exclude causes e.g. endophthalmitis (propionebacterium), IOL malposition, retained soft lens material, iris trauma



• • Uveitis







• Minor degrees frequent

o Usually symptomatic

 May cause cosmetic problem, monocular diplopia, glare, prolonged uveitis

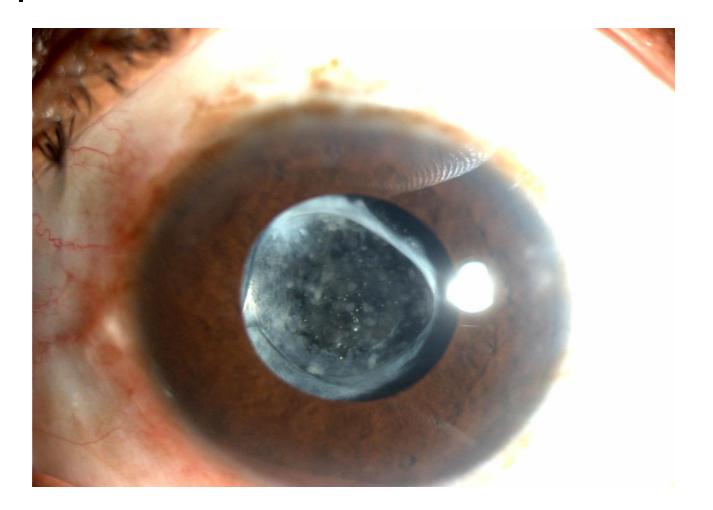
Posterior Capsular Opacification



- Commonest complication 10-20%
- Some degree in almost all
- Very variable timeframe
- Commonest within 2 years
- More likely in younger patients
- Only treat if symptomatic visual reduction
- Check fundus for other pathology

Posterior Capsular Opacification





• • • • YAG Laser Capsulotomy

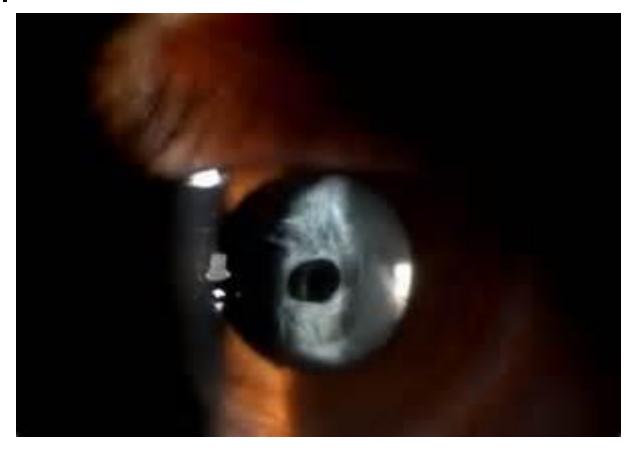


Quick and painless

- Usually no complications
- Potential complications are:
- IOL damage
- IOL displacement
- CMO
- Retinal tear/detach
- Raised IOP
- Corneal damage
- Hyphaema

Anterior Capsular Phimosis







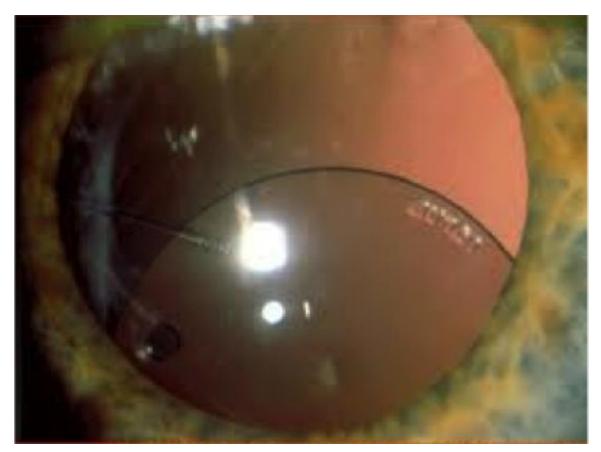
• • IOL Problems

• Rarely serious

- More common if complicated surgery
- IOL usually subluxed: i.e. partially shifted up / down / sideways / tilted
- Reduced VA, increase cyl, monocular diplopia
- More obvious in dilated pupil
- May distort pupil











• Sub-clinical forms very common

• Reduced VA, usually delayed onset (week 3, occasionally months)

 More common in diabetics, other retinal disease, excess uveitis, vitreous loss / capsule rupture, prostaglandin analogue eyedrops



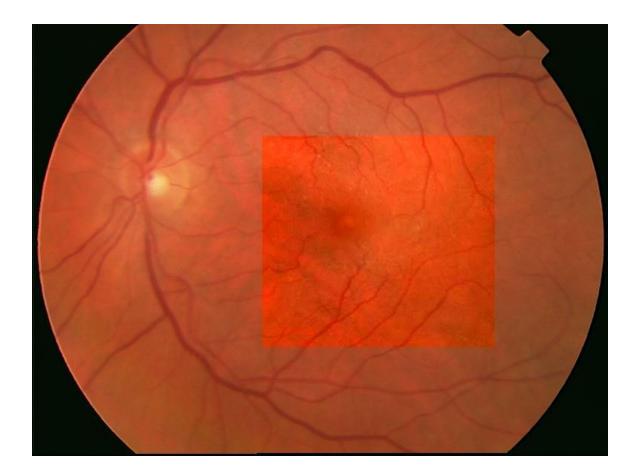


• Reduced VA

- Occasionally Amsler distortion
- Thickened macula
- Cysts at macula
- Can be confirmed with OCT/ fluorescein angiography
- Usually resolves spontaneously
- o Treatments available

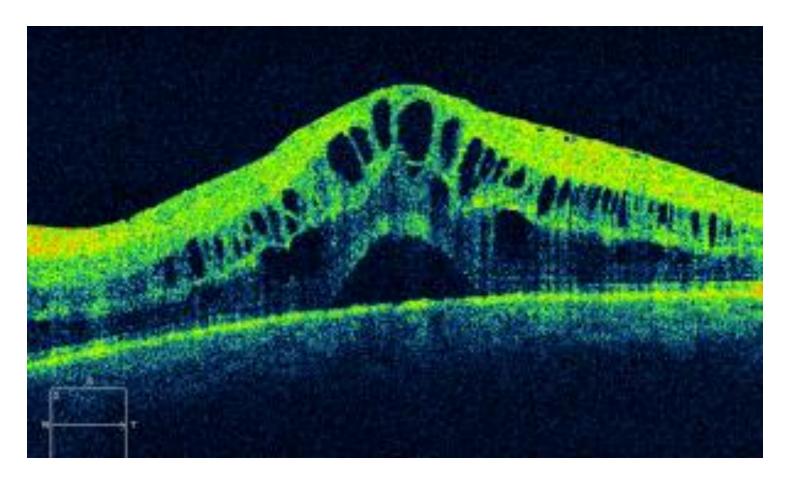
Cystoid Macular Oedema





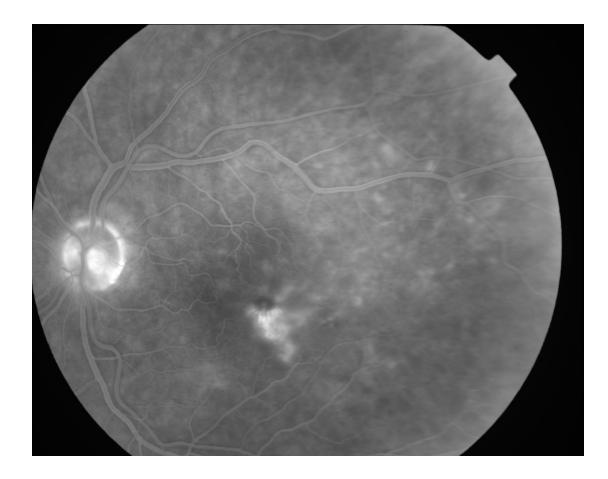
Cystoid Macular Oedema





Cystoid Macular Oedema







Retinal Tears and Detachment

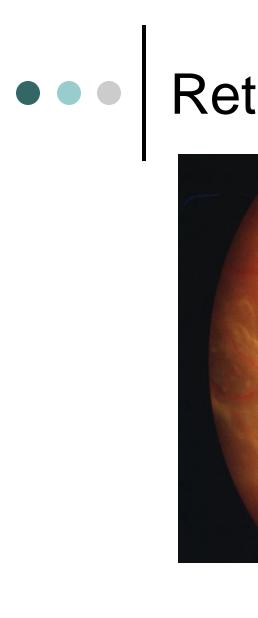
 Flashes and floaters: usually PVD, common onset after cataract surgery

- Must check retina including periphery
- More common in myopes, posterior capsule rupture and vitreous loss
- Pigment cells "tobacco dust" in vitreous
- U-shaped retinal tear
- RD: VA down or scotoma



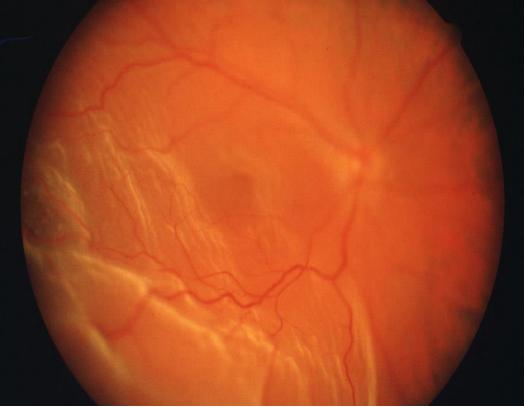
Retinal Tear





Retinal Detachment





Endophthalmitis



• Most feared post-operative complication

- Infection inside globe
- o Incidence: 1:1000
- More common in ill / systemic infection, diabetics, complicated surgery
- Onset in first 2 to 10 days post-op
- Painful red eye with worsening VA
- Severe uveitis, hypopyon, fibrin, vitreous haze





Immediate referral
 Intro coulor compling

- Intra-ocular sampling
- o Intra-ocular antibiotics
- Intensive systemic and eye drop medication
- High rate poor visual outcome despite intensive treatment



• • Endophthalmitis





Refractive Surprise

• 90% achieve within 1D of aim

- Most planned mild myopia (-0.2D)
- o Interim anisometropia common
- Cannot guarantee postop refraction
- Pre-op astigmatism may remain
- Not helpful to tell patient bad outcome especially in context of a happy patient!



Refractive Surprise

- Causes: wrong IOL; IOL in wrong place (e.g. AC, sulcus), subluxed IOL, wound problems, CMO, bad luck
- o If extreme, refer back
- Explore refractive options (e.g. monovision, tolerable glasses prescription, CL, refractive surgery /laser, IOL implant exchange)



Re-referral

- Emergency (immediately): Endophthalmitis
- Urgent (that day / next day): retinal tear / RD, serious wound closure problems, IOP >40, marked uveitis
- Soon (within 1 week): IOP > 26, marked corneal oedema, marked IOL displacement, persistent uveitis, severe DR, drop allergy, flashes / floaters
- Routine: PCO, CMO, Refractive surprise, glaucoma, floaters, unexplained poor VA, unhappy patient





Acute Clinic – Mon to Fri 01582 718320
Call Ophthalmic Nurse Practitioners via bleep (Switchboard)
Weekends & Out-of-hours 01582 491166
bleep on-call ophthalmologist



• • Thank you