Second Eyes Post-Cataract-op Care

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Criteria for cataract surgery

- In general:
 - Higher expectations
 - o Higher refractive demand
 - o The elusion that cataract surgery is a walk in the park!

Criteria for cataract surgery - GNHST

- GCAQ >10
- Anisometropia of >2D

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Suitability for Optometry Fast Track

- Uncomplicated Sx
- With co-pathology but consultant deems suitable for fast track
- DR with R0M0 or R1M0



The Visit

- 4-6/52 post-op
- · Post operative history and symptoms
 - Pain/Discomfort/Redness/Photophobia/Discharge
 - Flashing Lights/Floaters
 - Compliance with drops and if course completed
 - Satisfaction with surgery & vision
 - Co-existing eye problems e.g. Glaucoma
 - Driving, VDU use and occupational status
 - · Current spectacles and their suitability
 - Spectacle requirements

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The Visit

o Refraction including

- Focimetry of spectacles (if not previously recorded)
- · Unaided vision of both eyes
- Retinoscopy and subjective refraction, best corrected visual acuity (BCVA) including comment on refractive outcome, anisometropia and tolerance
- Near addition, including a test of tolerance to vertical prism imbalance, if necessary
- · Binocular vision assessment

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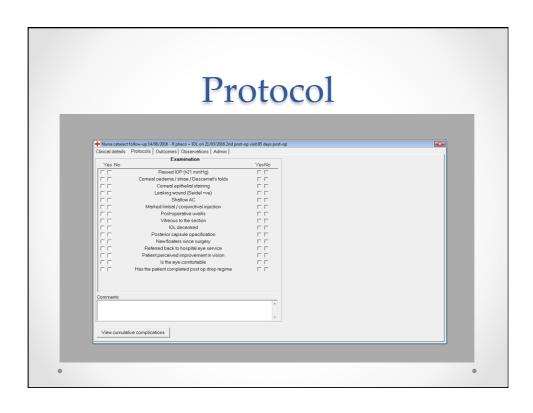
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The Visit

- Anterior eye Slit Lamp examination: The following should be assessed
 - Eyelids
 - · Conjunctiva and sclera for signs of hyperaemia
 - Cornea for oedema/striae/folds and staining, including Seidel's sign on fluorescein application
 - Anterior chamber to assess depth, check for retained lens matter and grade any inflammatory activity
 - Iris for trans-illumination, pupil irregularities or evidence of damage during surgery
 - Lens, in pseudophakic eyes checking for deposits, posterior capsule opacification and centration and in phakic eyes, grading cataract type and severity
 - · Intra-ocular pressure: Goldmann applantion tonometry

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What do NPs look for?

- The op is straight forward
- Pt is happy with results
- No visual co-morbidities
- No-post op complications

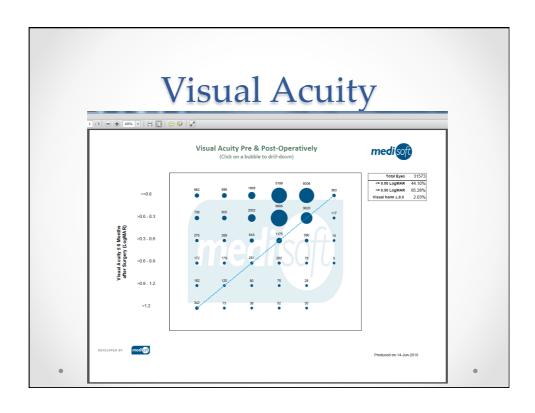
Complications

- Optical
- Surgical
- Medical

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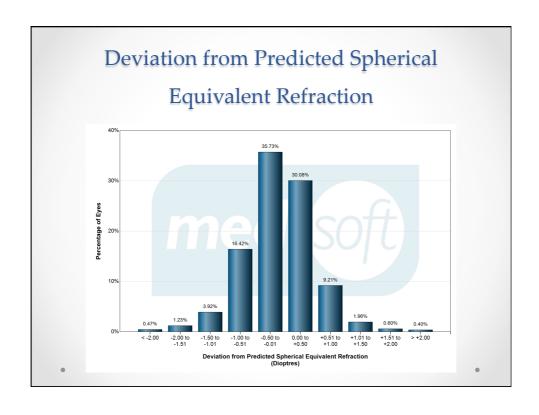
Optical Outcome

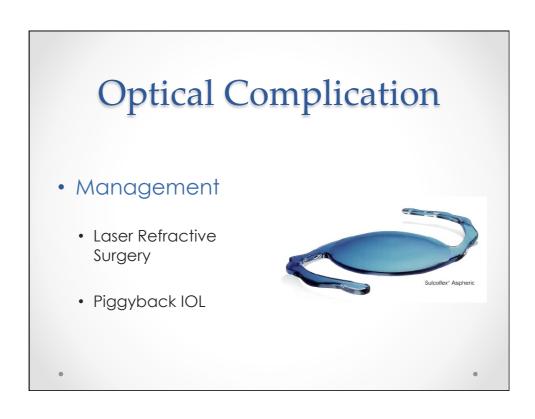
- The visual performance of the eye may be characterised in five major areas:
 - o High contrast acuity (e.g. Snellen)
 - Contrast sensitivity
 - o Glare disability
 - o Visual field
 - o Colour vision



Optical Outcome

- Surprise refractive outcome:
 - o RCOphth guidelines: +/- 1D in 85%





Wound leak

- Reduced VA
- Shallow AC
- Low IOP
- · Seidel +ve

Send to hospital?

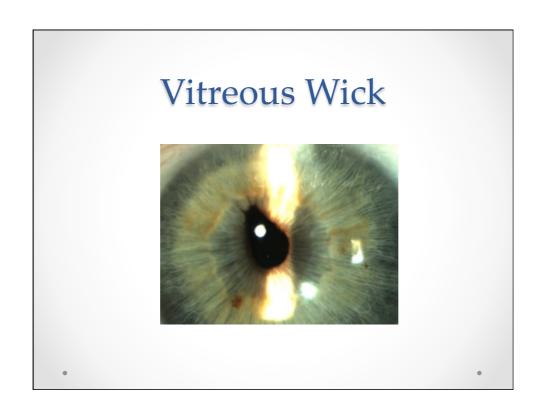
Corneal Oedema & Dec Folds

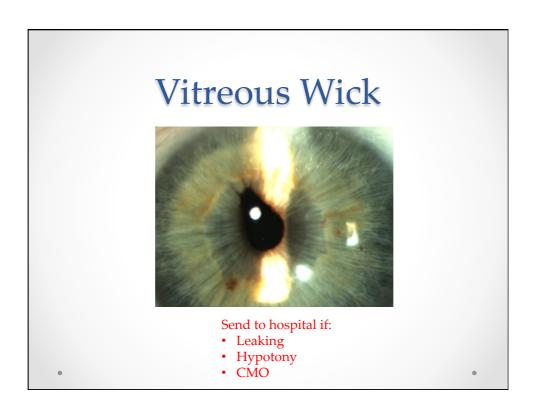
- 0.3%
- o Pre-existing guttata
- o Too much phaco/ultrasound power (hard cataract)

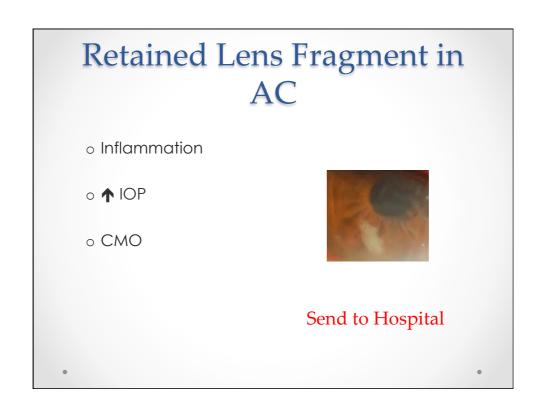
When to send to HES?

- If cornea oedema is severe so please send to HES
- If only Dec folds, this should resolve on its own









Post-op Uveitis							
Biomicroscope examination / findings	Patient symptoms	Action / treatment	Review arrangements				
Mild uveitis Cells + Flare +	Asymptomatic	No treatment required	Patient to contact dept if develops symptoms				
Mild uveitis Cells + Flare + Minimal corneal oedema ie 2-3 striae	Symptomatic and has one or more of the following: Red eye Photophobia	Prescribe one drop of maxidex to the affected eye: twice a day for 1 week once a day for 1 week then stop (PGD required)	No review necessary unless symptoms are not resolving – patient to contact for f/u appt if required				
Moderate uveitis Cells ++ Flare ++ Comeal oedema – descemets folds	Symptomatic and has one or more of the following: Red eye Photophobia Small reduction in VA - no more that 2 lines snellen below expected visual outcome	Optometrist must seek ophthalmology opinion	Review to be arranged in the ophthalmology clinic same day				
Severe uveitis Cells +++ Flare +++ And/or corneal oedema with loss of transparency Or IOP > 21mmHg	Symptomatic and has one or more of the following: Red eye Photophobia Significant reduction in VA - more that 2 lines snellen below expected visual outcome	Optometrist must seek ophthalmology opinion	<u>Urgent</u> review to be arranged in the ophthalmology clinic same day				
Hypopyon	Regardless of symptoms	Optometrist must make immediate referral to ophthalmology clinic	Optometry: March 2008 Patient must be seen by an ophthalmologist urgently				

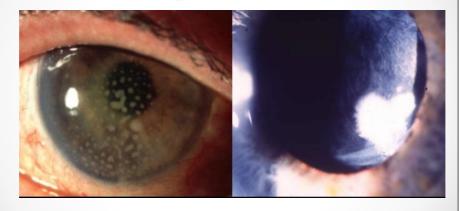
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Endophthalmitis

- The national rate reported in the 2000 BOSU study23 was 0.14%,
 - We had 3 cases between April 2014 and Dec 2015 (around 0.04%)
- o w/in 6/52
- o Chronic Endophthalmitis:
 - Propionibacterium acnes

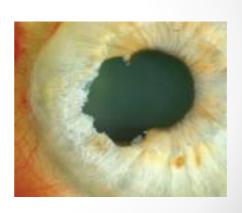
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Propionibactrium Acnes Endophthalmitis



Iris Damage

 Higher incidence since Tamsulosin (Floppy Iris Syndrome)

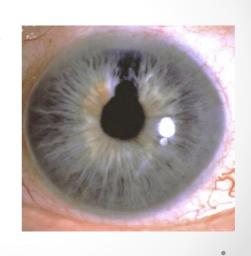


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Iris Damage

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PC Tear

- Typically managed in HES
 - Duty of Candour: by law surgeon needs to see the patient if there was any harm done e.g. PC tear.
 - These patients are usually managed in HES and only seen in community if PC tear is very small and there was no vit prolapse and IOL in the sulcus

PC Tear

• IOL can sink through PC tear to the vitreous

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PCO

o Early PCO/ SLM left behind:

• To Yag or not to Yag?

PCO

- o Early PCO/ SLM left behind:
 - To Yag or not to Yag
 - When?

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PCO

- Yag damage to IOL
 - o IOL pitting
- No need to send to HES if mild and

Phimosis

- Thickening of anterior capsule:
 - o Less common than PCO
 - o More common in young patients
 - o Could be visually insignificant and not needing treatment
 - o If visually significant it will need yag anterior capsulotomy

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A Crack in IOL

- A small crack on the IOL
 - o Usually visually not important
 - o Is it worth extracting and putting a new IOL in? probably not
 - o Refer only if symptomatic

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Dislocated IOL

- Zonular dehiscence
- · Haptic not in the bag
- PC tear

Send to HES

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Flashes and Floaters

- 0.9% post phaco
- Increases in case of complication:
 - o PC tear & anterior vity
 - o Vitreous wick

Cystoid Macular Oedema

- In cases of unexplained reduced vision
- Fundoscopy shows cystic spaces in the macula
- OCT might detect sub-clinical CMO
- Increased risk of CMO with DM, therefore it's a protocol in our department to give Nevenac to all our diabetic patients undergoing Cataract op

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Patient Reported Outcomes (PROMs)

- Used to judge the morbidity and treatment benefits of cataract surgery
- Subgroup analysis of 10,675 patients using 'Catquest' within the Swedish National Register:
 - o 84% of patients perceived a benefit from surgery
 - o 7% perceived no change
 - 9% reported increased difficulty in performing daily life activities 6 months after surgery

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NOD

- We need to collect post op data and marry to preop data
- Remote input into Medisoft

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Closing the loop

- Webstar
- The need to close the loop at the point of last test
 Evesham model not viable for large scale
- The need for remote log-in on Medisoft
 Cost ? £2/ patient
- Clinical governance

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Audit

- Responsibility
 - o ?PEG
 - o \$FOC
 - o \$HES

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Potential pitfalls

- Accountability
 - In HES it's the consultant's responsibility to review the notes and make the final decision
 - o Now?