



Cataract Theatre Skills

Module 2 Referral and PreOp Visit

Welcome to Referral and PreOp Visit



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- ◉ Trainer & Sales in Ophthalmology for 20 Years
- ◉ Please ask questions!
- ◉ Email warren@medsalesacademy.co.uk



Today we will learn



- ◉ Cataract Assessment
- ◉ What happens on the day of surgery
- ◉ Anaesthesia
- ◉ What is the WHO?
- ◉ Theatre Preparation
- ◉ Back Ups

Cataract Assessment



- In consultation with the patient & their family, various examinations will be made
- Visual Acuity, Slit-lamp Exam, Keratometry Vital Signs / General Health, History (Topography if needed)
- Do both eyes have a cataract?
- If a decision by the patient & family to go forward to surgery is made
- Biometry print out will be reviewed by the Surgeon and support staff
- Biometry report should be electronically transferred to the patient notes and stuck to the hard copy notes
- An IOL will be selected in consultation with the patient and taking into consideration the desired refractive outcome - recorded in notes
- Proposed surgery date will be communicated to the patient



OD right				OS left							
AL: 24.61 mm (SNR = 257.1)				AL: 24.69 mm (SNR = 259.9)							
K1: 45.33 D / 7.75 mm @ 159°				K1: 43.36 D / 7.44 mm @ 9°							
K2: 46.41 D / 7.60 mm @ 69°				K2: 46.17 D / 7.31 mm @ 99°							
R / SBI: 7.67 mm / 43.98 D				R / SBI: 7.33 mm / 45.77 D							
Cyl: 0.80 D @ 69°				Cyl: 0.81 D @ 59°							
ACD: 3.94 mm				ACD: 3.89 mm							
Status: Phakic				Status: Phakic							
AMO Tecnis 1 ZCB00				Alcon AcrySof MA60AC							
SP:	2.02	SP:	1.96	SP:	2.02	SP:	1.90				
20.0	-1.92	19.5	-1.44	17.5	-1.44	17.5	-1.57				
19.5	-1.29	19.0	-1.20	17.0	-1.22	17.0	-1.25				
19.0	-0.98	18.5	-0.77	16.5	-0.92	16.5	-0.93				
18.5	-0.62	18.0	-0.44	16.0	-0.59	16.0	-0.43				
18.0	-0.31	17.5	-0.22	15.5	-0.25	15.5	-0.26				
17.5	0.01	17.0	0.20	16.0	0.21	16.0	0.20				
17.0	0.32	16.5	0.52	14.5	0.41	14.5	0.31				
Error: Total 17.51				Error: Total 17.31				Error: Total 17.19			



On the day of Cataract Surgery



- General examination - Vital signs
- Check nothing major has changed with the patients vision and the eyes are infection free
- Patient is seen by the Anesthetist & Surgeon
- The surgery - risks and advantages are explained again to the patient & family
- Consent to operate is signed by the Patient
- Eye to be operated is confirmed by Surgeon, Anaesthetist &/or Senior Nursing Staff and marked
- Dilating drops will be instilled by the Nursing staff (Atropine - Cyclopentolate & Phenylephrine etc)
- ? Non Steroidal Anti Inflammatory Drops - Anti Cystoid Macular Edema



Anaesthesia



- ◉ Topical anaesthetic Drops
Lidocaine 2% , Proparacaine 0.5% and Tetracaine 0.75%
- ◉ Sub Tenons (from the 1990s onward) involves an injection of anaesthetic below the Sub Tenon Capsule
- ◉ Intracameral anaesthetic direct introduction into the Anterior Chamber - PF Lidocaine 1%
- ◉ Peribulbar- Injection in the muscle cone under the Tenons Capsule-
- ◉ Sedation for some patients



Question Time



The WHO



Surgical Safety Checklist



World Health
Organization

Patient Safety

A World Alliance for Safer Health Care

Before induction of anaesthesia

(with at least nurse and anaesthetist)

Has the patient confirmed his/her identity, site, procedure, and consent?

Yes

Is the site marked?

Yes
 Not applicable

Is the anaesthesia machine and medication check complete?

Yes

Is the pulse oximeter on the patient and functioning?

Yes

Does the patient have a:

Known allergy?

No
 Yes

Difficult airway or aspiration risk?

No
 Yes, and equipment/assistance available

Risk of >500ml blood loss (7ml/kg in children)?

No
 Yes, and two IVs/central access and fluids planned

Before skin incision

(with nurse, anaesthetist and surgeon)

Confirm all team members have introduced themselves by name and role.

Confirm the patient's name, procedure, and where the incision will be made.

Has antibiotic prophylaxis been given within the last 60 minutes?

Yes
 Not applicable

Anticipated Critical Events

To Surgeon:

What are the critical or non-routine steps?
 How long will the case take?
 What is the anticipated blood loss?

To Anaesthetist:

Are there any patient-specific concerns?

To Nursing Team:

Has sterility (including indicator results) been confirmed?
 Are there equipment issues or any concerns?

Is essential imaging displayed?

Yes
 Not applicable

Before patient leaves operating room

(with nurse, anaesthetist and surgeon)

Nurse Verbally Confirms:

The name of the procedure
 Completion of instrument, sponge and needle counts
 Specimen labelling (read specimen labels aloud, including patient name)
 Whether there are any equipment problems to be addressed

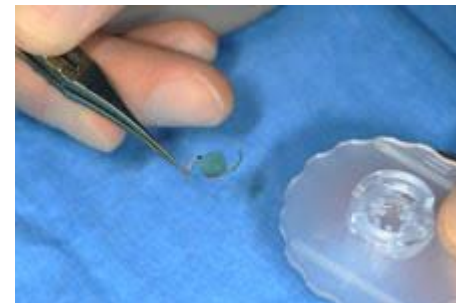
To Surgeon, Anaesthetist and Nurse:

What are the key concerns for recovery and management of this patient?

Theatre Preparation



- Only one IOL, of the relevant size (as per Biometry print out) and make/model selected by the Surgeon (with an identical spare in the Prep Room)
- Have an alternative - Anterior Chamber IOL in case of bag rupture
- Check you have at least two (one in theatre-one in the Prep Room) sterile in date Anterior Vitrectomy packs
- Appropriate Viscoelastic & HPMC and back up stock
- Biometry Print Out & IOL selected by Surgeon and one other team member
- Recheck patients Name & DOB



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SP:	2.02	SP:	1.90	SP:	2.02	SP:	1.90
10L (D)	REF (D)	10L (D)	REF (D)	10L (D)	REF (D)	10L (D)	REF (D)
20.0	-1.62	20.5	-1.44	21.5	-1.44	21.5	-1.57
23.0	-1.29	23.2	-1.20	23.0	-1.22	23.0	-1.25
25.0	-0.95	25.3	-0.77	25.3	-0.82	25.3	-0.93
28.5	-0.43	28.0	-0.44	28.0	-0.50	28.0	-0.45
30.0	-0.31	31.5	-0.22	35.5	-0.15	35.5	-0.10
37.5	0.01	37.0	0.20	35.0	0.22	35.0	0.20
37.0	0.32	26.5	0.52	24.5	0.47	24.5	0.31
Emax - 10L: 17.51		Emax - 10L: 17.21		Emax - 10L: 17.18		Emax - 10L: 17.01	



Question Time



Back Up



Other items that should be prepared as back up

- ⦿ Floppy Iris – Iris Hooks or Pupil Expanders
- ⦿ Weak zonules – Capsular Tension Rings
- ⦿ Specialist Viscoelastics or HPMC
- ⦿ Sutures



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- ◉ Theatre Preparation
- ◉ Back Ups

Thank-you



- ◉ We hope this session was useful
- ◉ Please send us your questions
- ◉ warren@medsalesacademy.co.uk
- ◉ See you on the next module
 - **Phaco emulsification**