



Cataract Theatre Skills

Module 4 Instruments & Trolley

Welcome to Instruments & Trolley



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



Today we will learn



- ◉ Types of Forceps used in Cataract Surgery
- ◉ Manipulators and Chopping Instruments
- ◉ Scissors, Needle Holders & Sutures
- ◉ Speculum, Slit Knives and Stab Blades
- ◉ Custom Packs
- ◉ BSS & Viscoelastic

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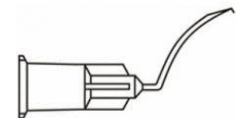
TYPICAL INSTRUMENTS USED DURING CATARACT SURGERY - FORCEPS

- Moorfields Forceps
- McPherson Forceps
- Capsulorhexis Forceps

Moorfields for grasping the conjunctiva

McPherson for grasping and used for suture tying

Capsulorhexis used to make the circular hole in the capsular bag



16mm (5/8")

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TYPICAL INSTRUMENTS USED DURING CATARACT SURGERY - MANIPULATORS

- Mushroom Type Manipulators
- Sinskey Hook
- Y Pusher Manipulator or Double Ended

Used to protect or manipulate structures in the eye. Plus manipulate the Intraocular Lens Implant



Question Time

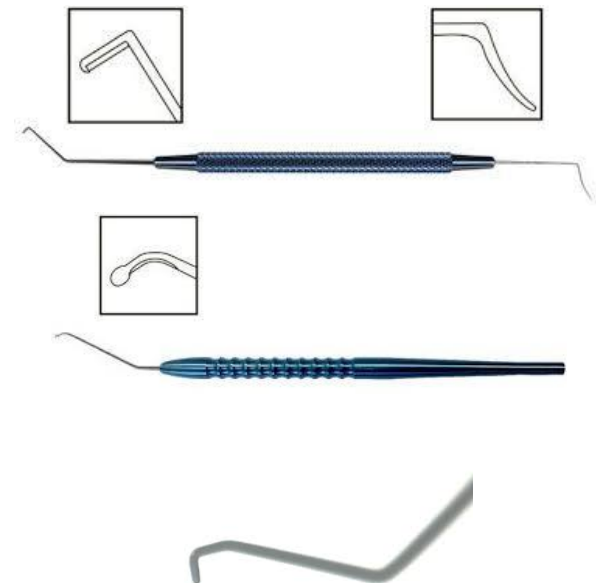
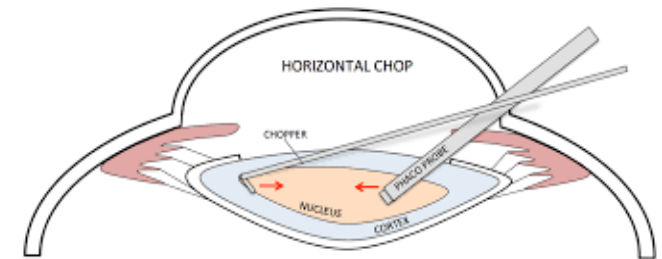


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TYPICAL INSTRUMENTS USED DURING CATARACT SURGERY - CHOPPERS

- ⦿ Nagahara Chopper
- ⦿ Siebel Chopper
- ⦿ Greens Chopper

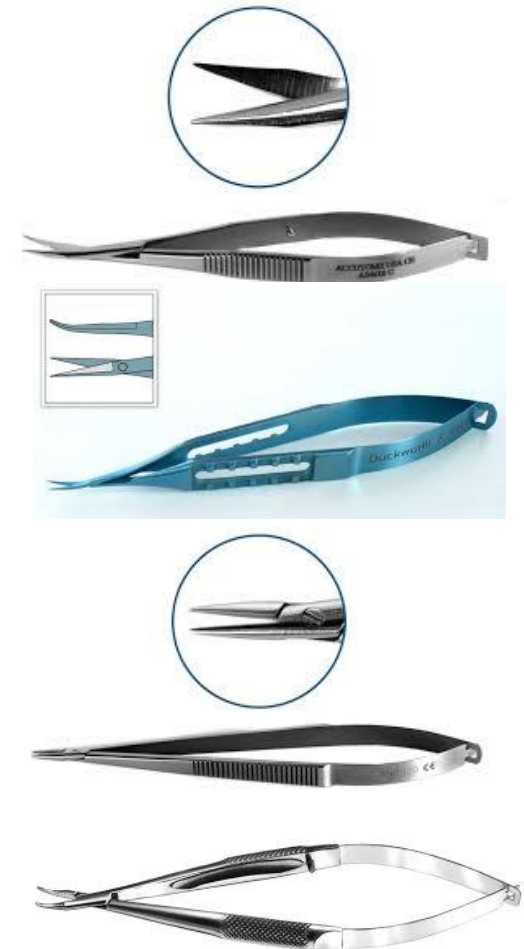


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TYPICAL INSTRUMENTS USED DURING CATARACT SURGERY - SCISSORS & NEEDLE HOLDERS

- ⦿ **Westcott** Scissors - Curved & used for cutting structures and when suturing
- ⦿ **Vannas** Scissors - Straight & used for cutting structures and when suturing
- ⦿ **Castroviejo** Needle Holder - Straight
- ⦿ **Barraquer** Needle Holder - Curved



Question Time



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TYPICAL INSTRUMENTS USED DURING CATARACT SURGERY - EYE SPECULUM & SLIT/STAB BLADES

- ◉ Eye Speculum - Single Use or Re-Sterilisable
- ◉ Slit Knife - 1.8mm, 2.2mm & 2.75mm
- ◉ Stab - 15 degree blade
- ◉ 23G - MVR Knife



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TYPICAL INSTRUMENTS USED DURING CATARACT SURGERY - CATARACT CUSTOM PACK

- ⦿ A high percentage of Hospitals & Clinics use a Cataract Custom Procedural Pack
- ⦿ They contain all the single use items, including the drape for 1 x Phaco procedure
- ⦿ They can be custom made for a hospital or even a surgeon (plus can include the Phaco & I/A tubing pack)



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TYPICAL INSTRUMENTS USED DURING CATARACT SURGERY - BSS & Viscoelastic

(Balanced Salt Solution - Ophthalmic Viscoelastic Device)

- **BSS** - 500ml used for the Phaco System- Small bottle 15 or 30ml- used for cleaning instruments or topping up BSS syringes
- **Viscoelastic** - 1.0% Sodium Hylaronate used inside the eye
- **HPMC** - 2.0% Methylcellulose used for coating the cornea

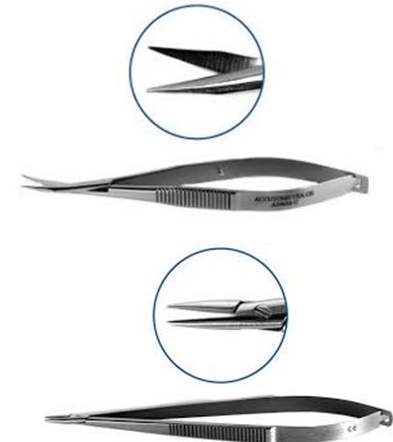
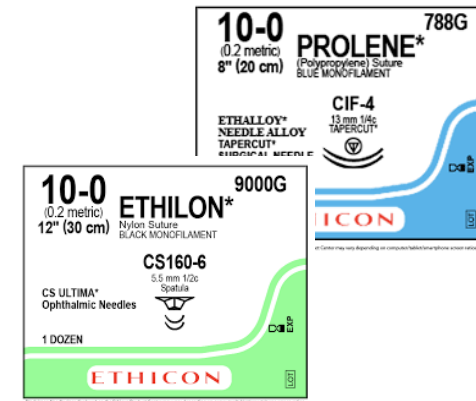


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TYPICAL INSTRUMENTS USED DURING CATARACT SURGERY - SUTURES & INSTRUMENTS

- Sutures
- Instruments to insert sutures
- Needle Holder & Scissors



Summary



Question Time



Today we have learnt



- ◉ Types of Forceps used in Cataract Surgery
- ◉ Manipulators & Chopping Instruments
- ◉ Scissors, Needle Holders & Sutures
- ◉ Speculum, Slit Knives & Stab Blades
- ◉ Custom Packs
- ◉ BSS & Viscoelastic

Thank-you



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