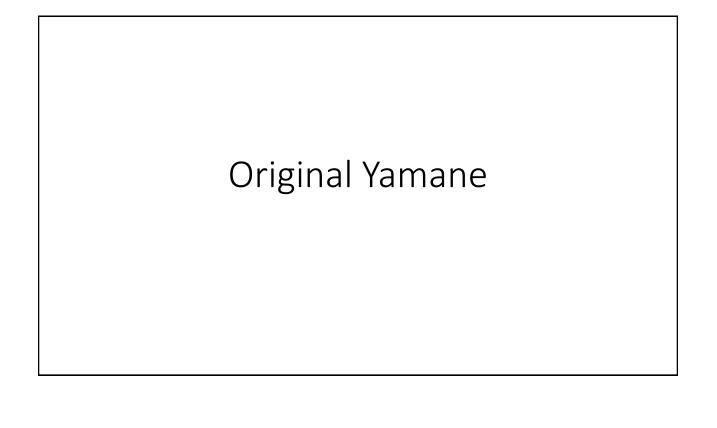
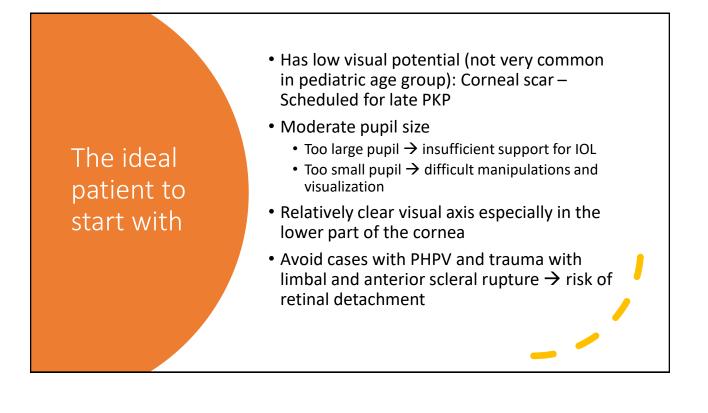
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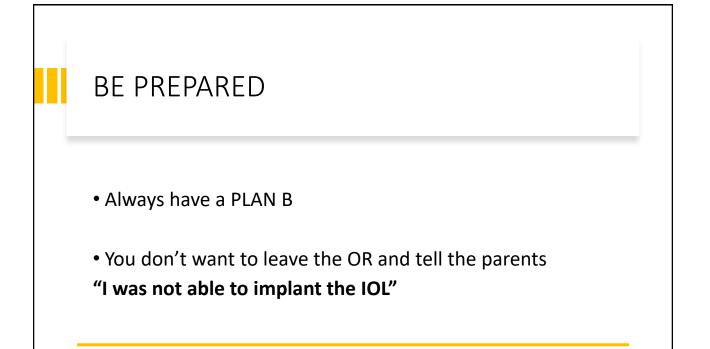
YPTIAN P**HTHALMOLOGICAI** 

Ahmed Awadein, MD Cairo University Yamane Technique for the Pediatric Eye: The fundamentals







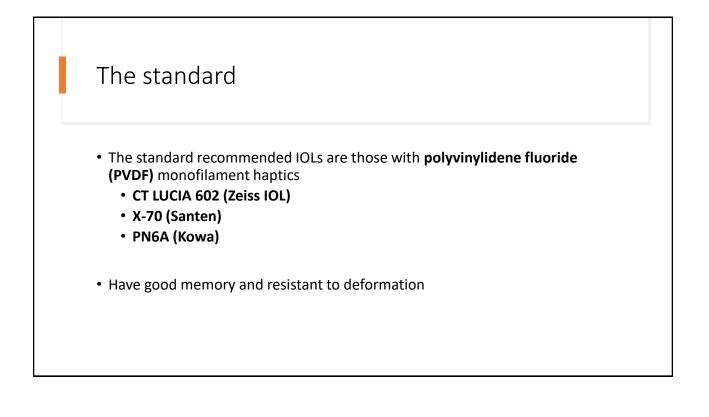


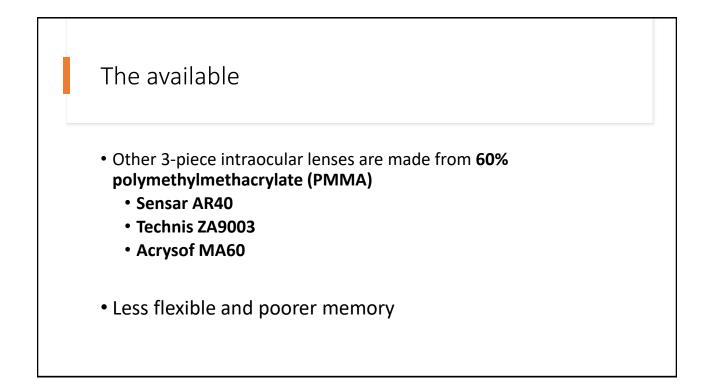


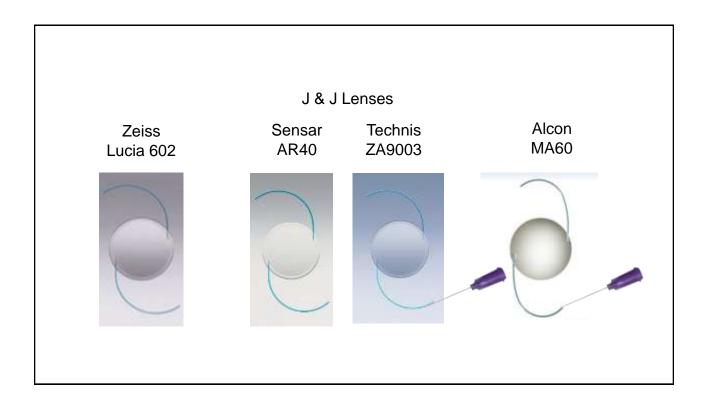
# Ingredients The original ingredient The replacement in case the original did not work (HAPPENS A LOT)

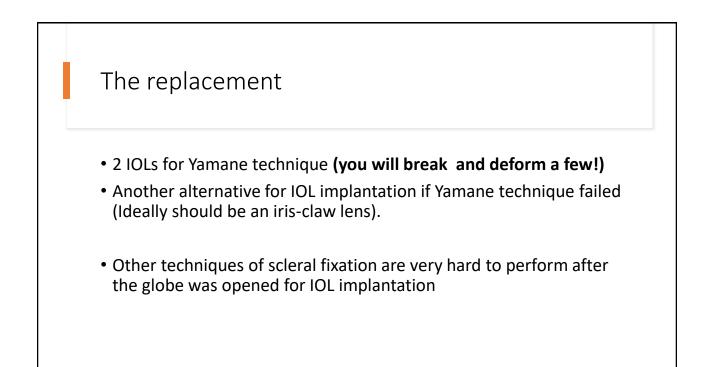
## 1- Intraocular Lens

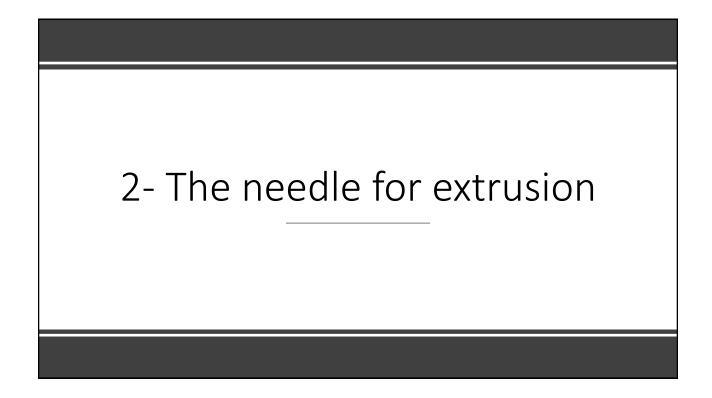
# Coptic: Large optic to minimize and lessen the effect of decentration Haptic Flexible with high memory and resistant to deformation and kinking C loop design rather than J loop for easier feeding and better centration Strong haptic/optic junction to avoid dislocation of haptic









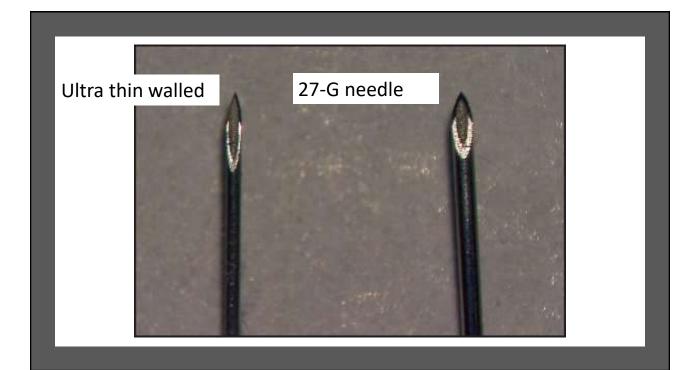


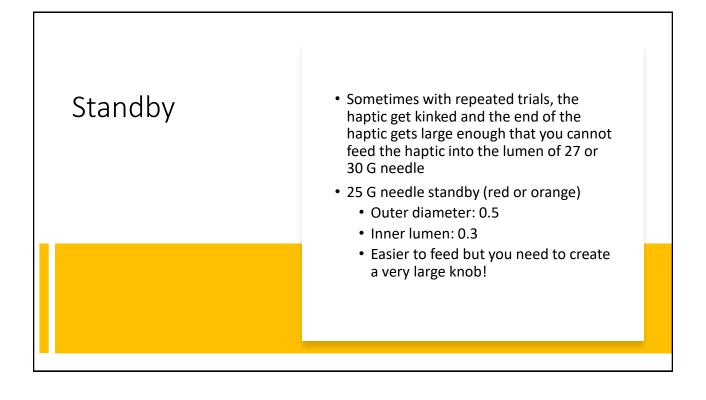
# The ideal needle

- Long enough (12 mm or more) to allow extrusion from the globe if needed
- Wide inner lumen to allow the haptic to be engaged in it without being stuck or kinked
- Small outer diameter to leave a small opening in the sclera to avoid the haptic retracting inside the globe

What are the sizes of needles?

- The standard 30 G (beige/yellow)
  - Outer diameter: 0.3 (ideal)
  - Inner lumen 0.14 (too small)
- The standard 27 G (light gray)
  - Outer diameter: 0.4 (too large)
  - Inner lumen: 0.2 (ideal)
- The combination of both is ultrathin walled 30 G needle
  - Outer diameter: 0.3 (ideal)
  - Inner lumen: 0.2 (ideal)





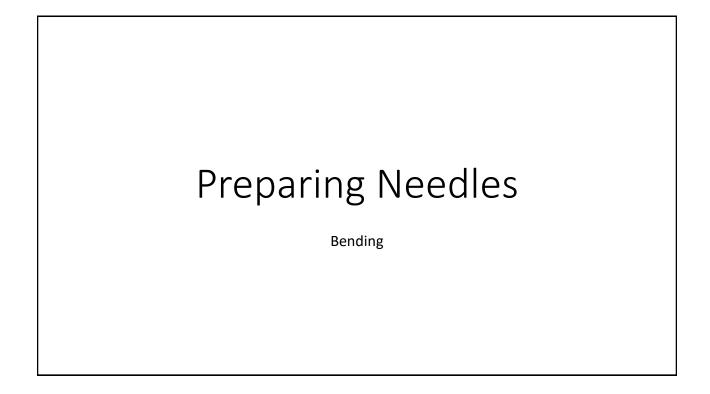
## **Preparing Needles**

- Testing
- Bending
- Priming

## **Preparing Needles**

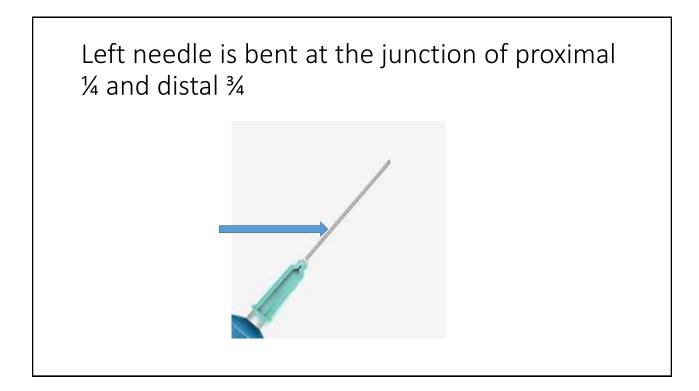
Testing

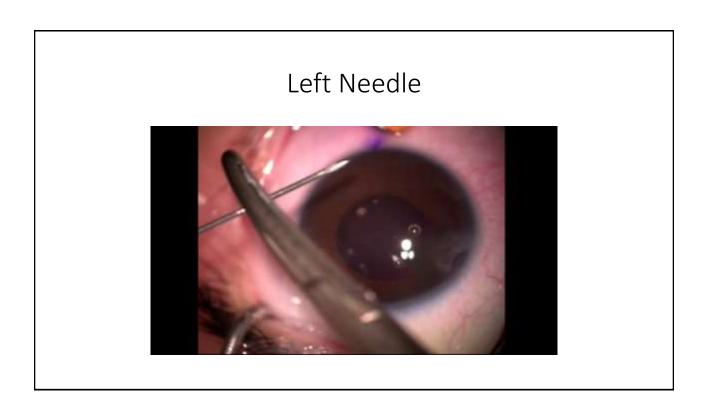


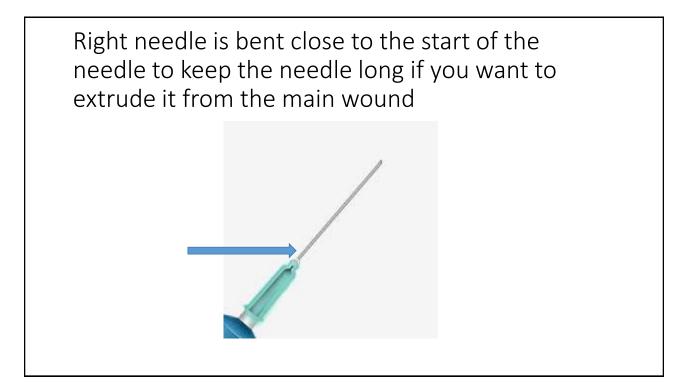


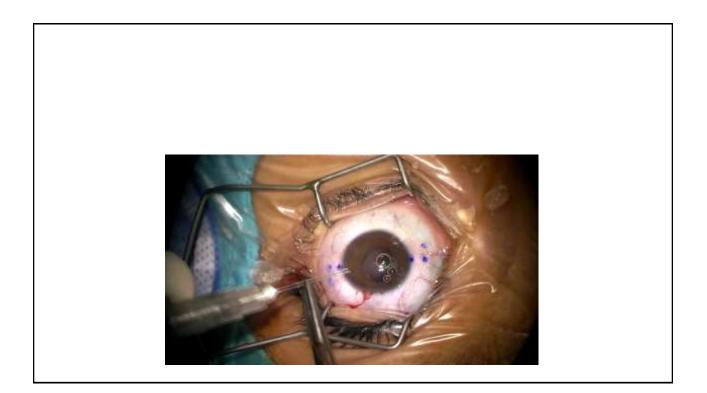
#### Both Needles

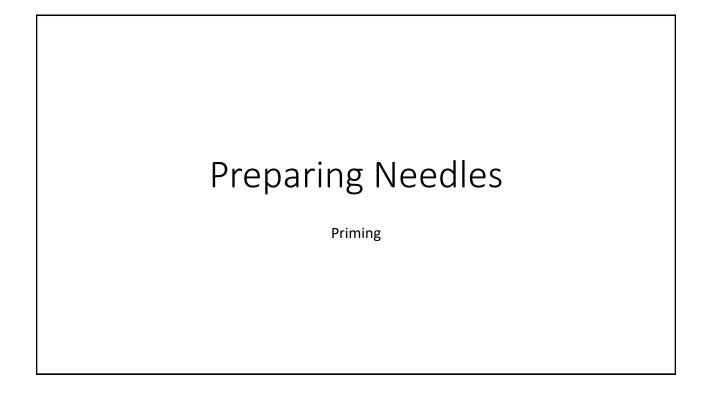
- Bent so that the opening in the needle is facing
  - Up (towards the ceiling)
  - Slightly superiorly (towards the superior corneal incision)

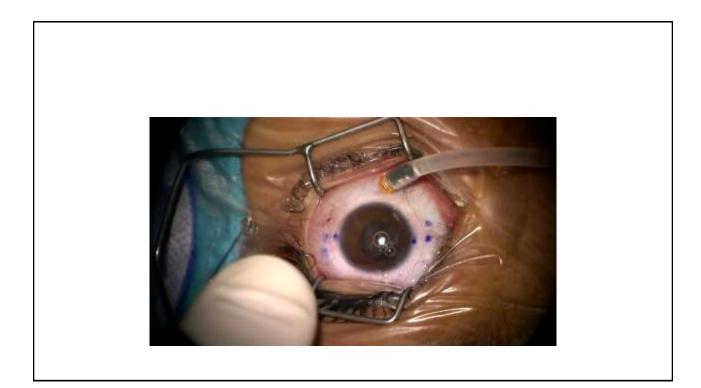












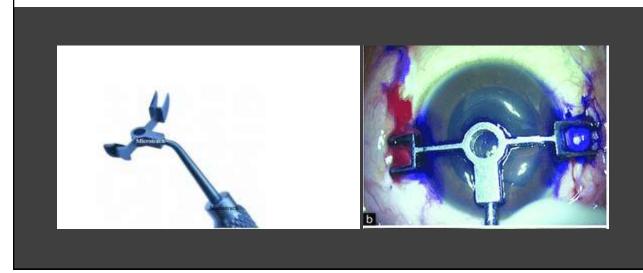
### Why Priming?



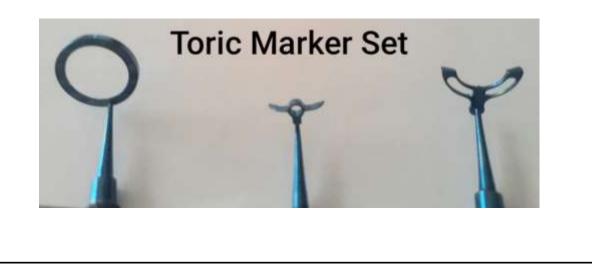
## 3- The marker

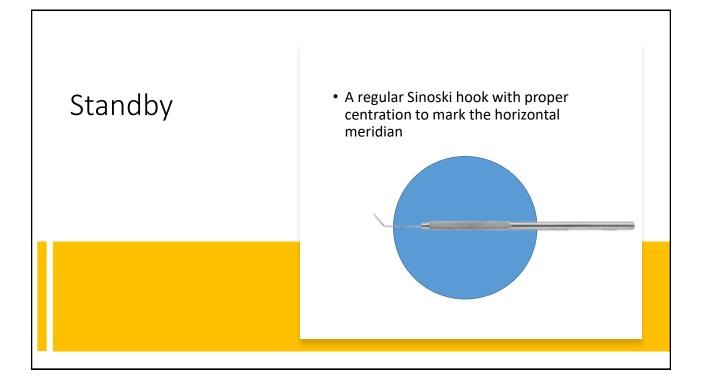
The ideal marker is the marker for glued IOL

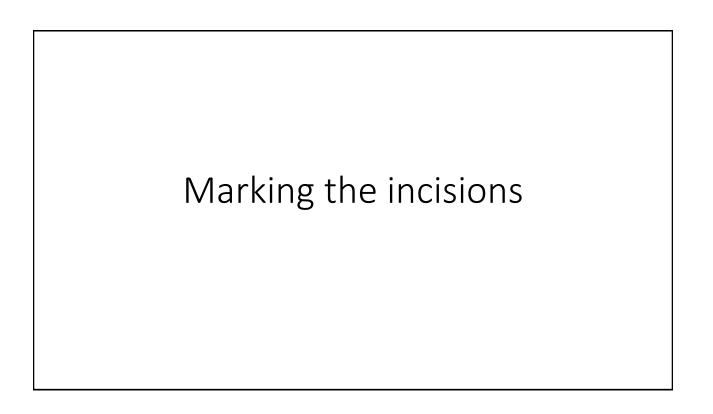
- 180 degrees
- Marks 2 points for the start and end of scleral tunnel

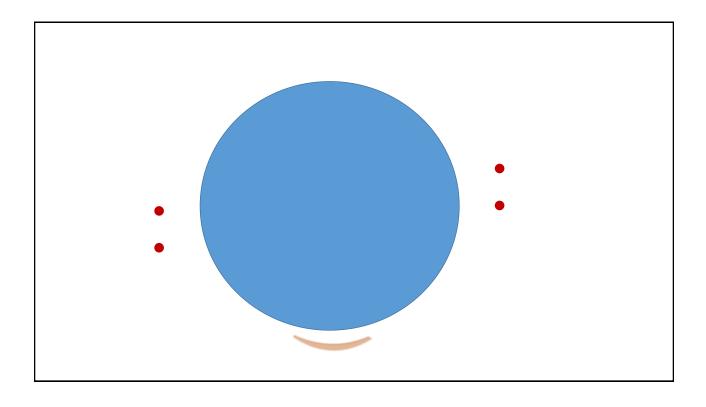


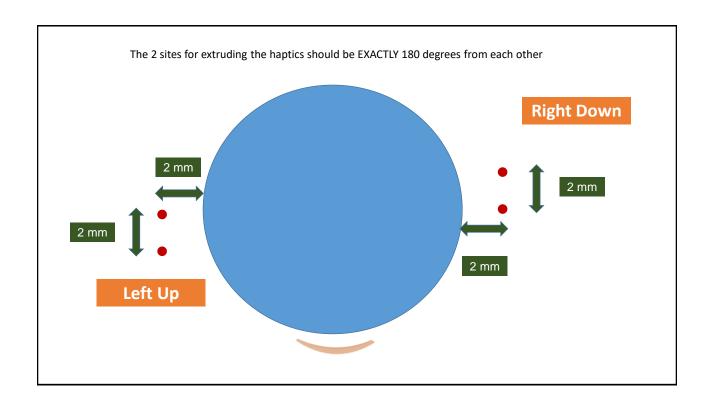
#### But any marker should do the job

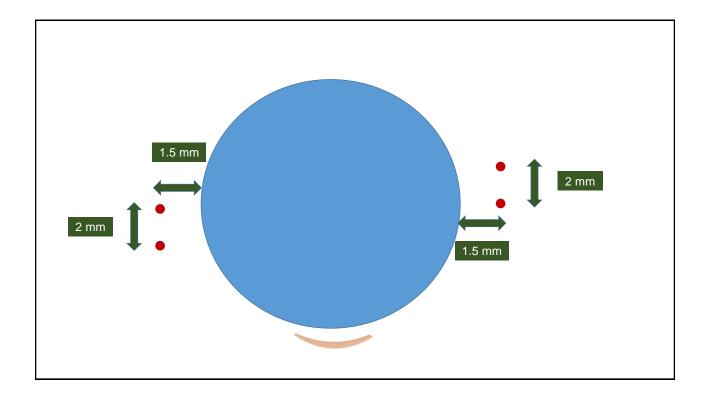


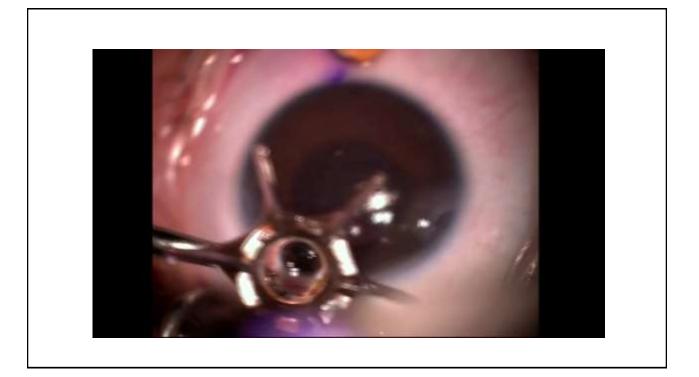










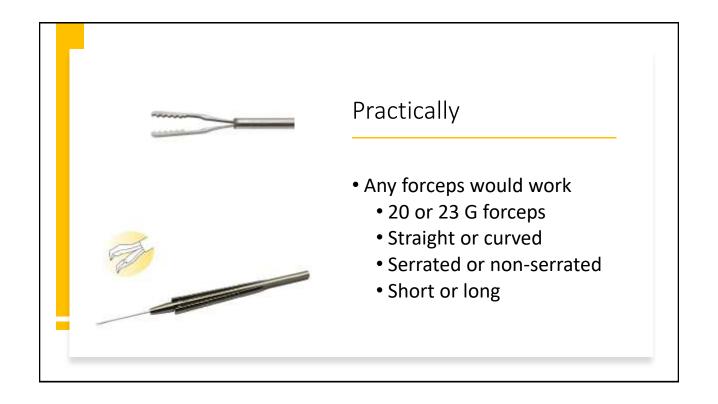




## 4- Intraocular forceps

# The ideal forceps

- Smooth blades not serrated to avoid injury to the haptics
- 23 G to allow more delicate manipulations within a closed anterior chamber
- Straight forceps not curved
- Anterior segment forceps not a vitreoretinal forceps as it is shorter and easier to use in the anterior segment

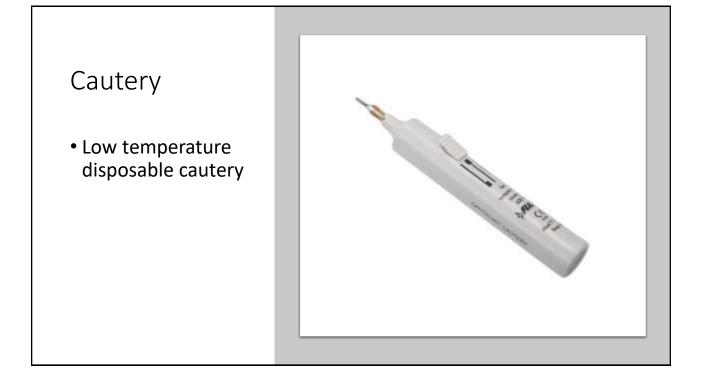




- Feed the leading haptic directly from the injector to the extruding needle
- Difficult need experience

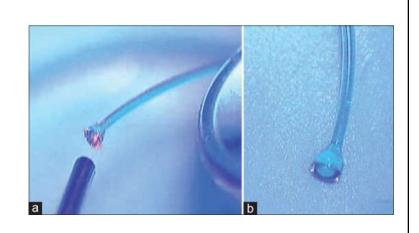


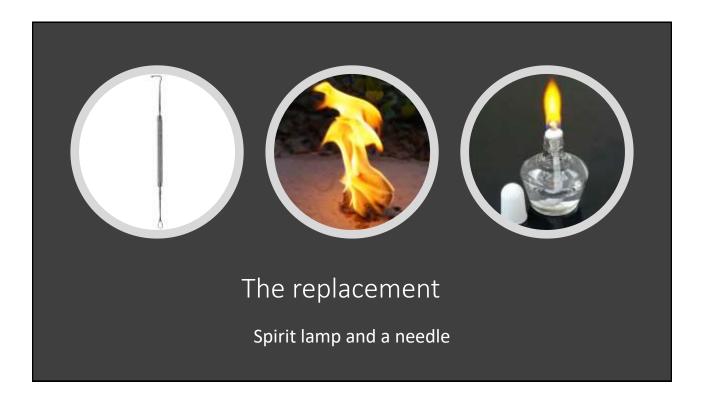
## 5- Cautery



# The replacement:

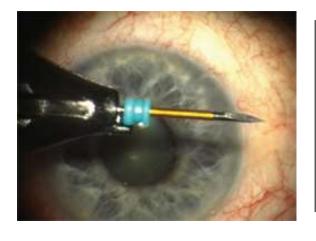
Endolaser probe





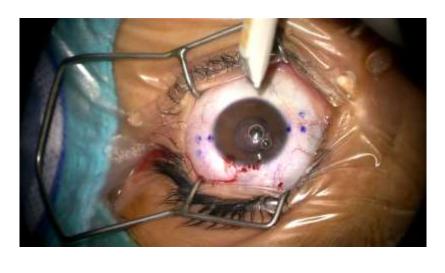
# 6- Infusion Cannula

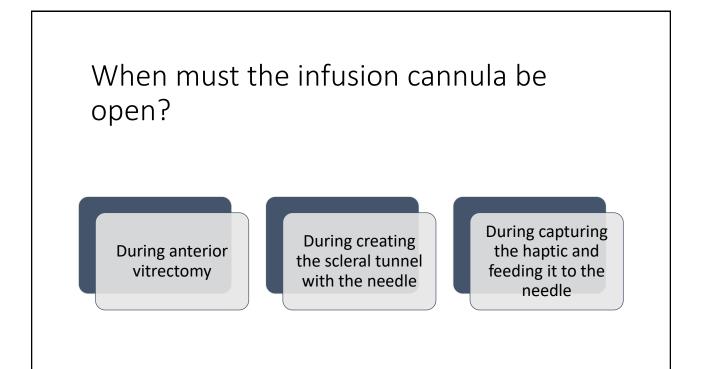
### The standard





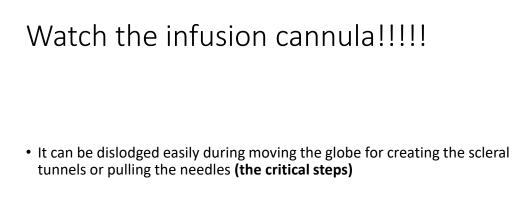
#### Best placed at 7 or 8 O-Clock



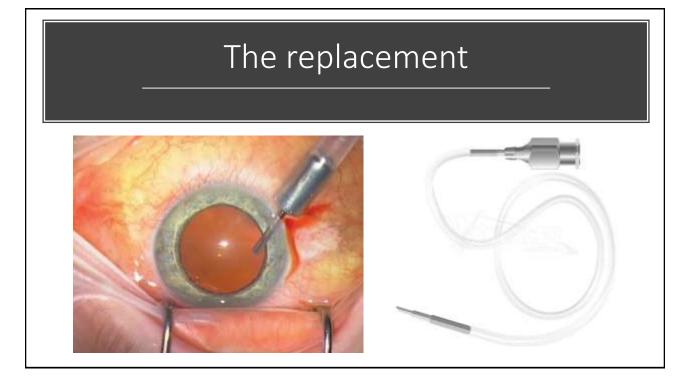


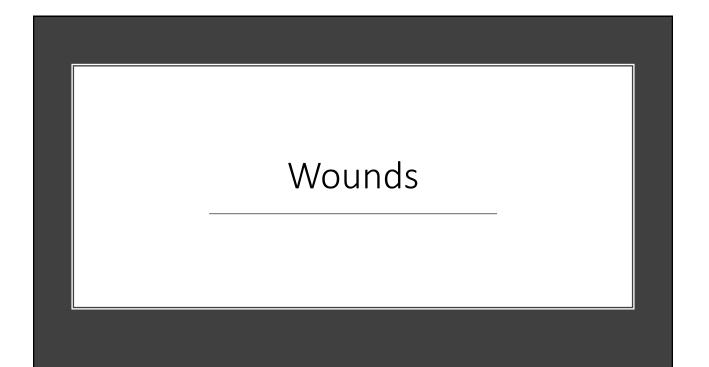
# When "may" the infusion cannula be closed?

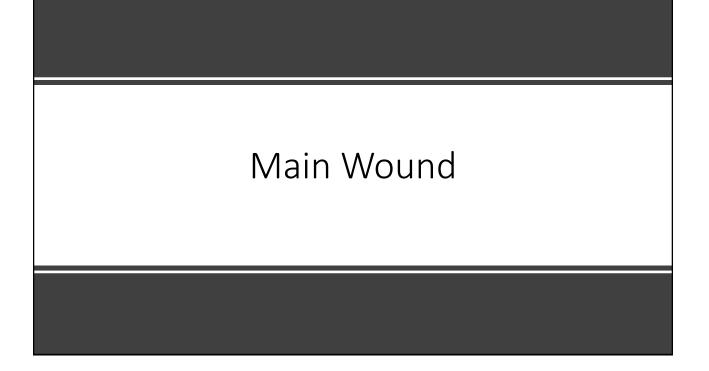
- When injecting viscoelastics in the anterior chamber to create space before
  - Injecting the IOL
  - Introducing the forceps inside the eye

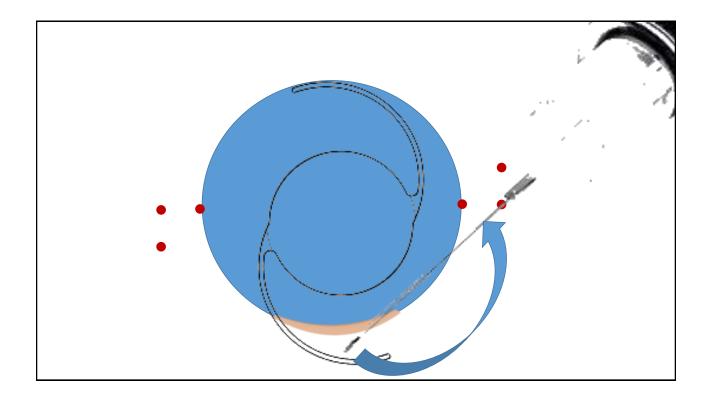


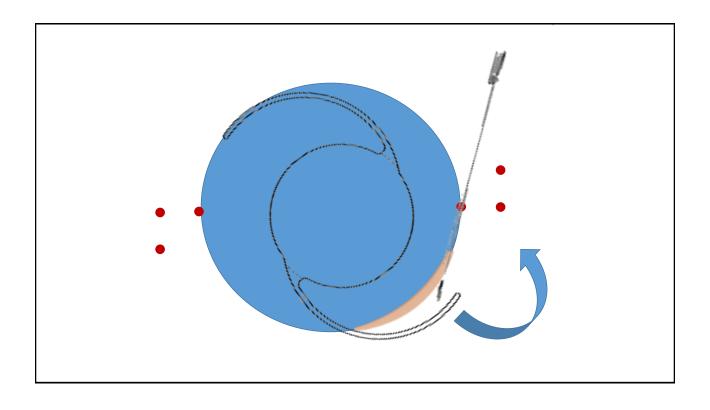
ALWAYS ask the nurse to push on the infusion cannula during these maneuvers

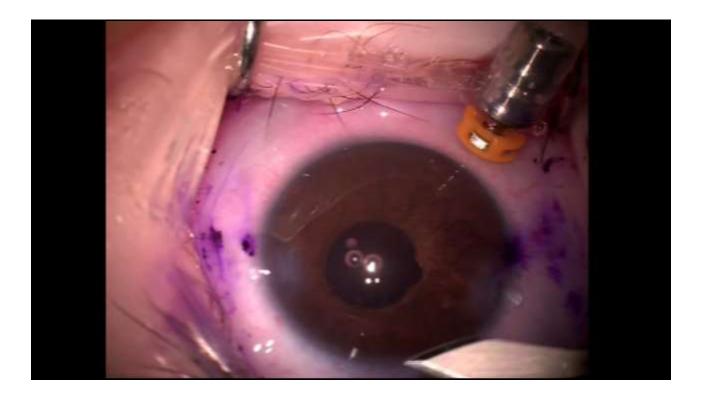






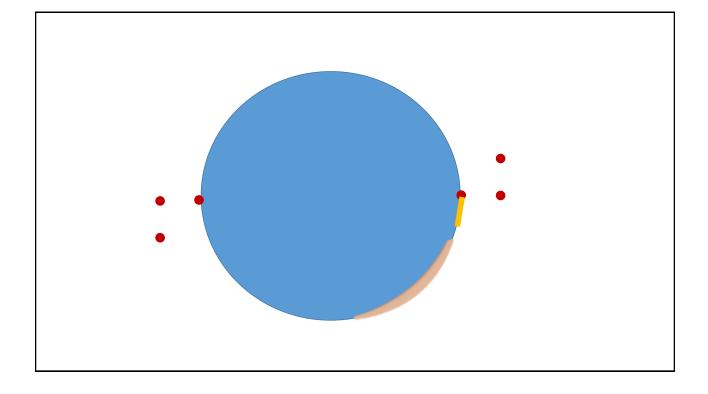


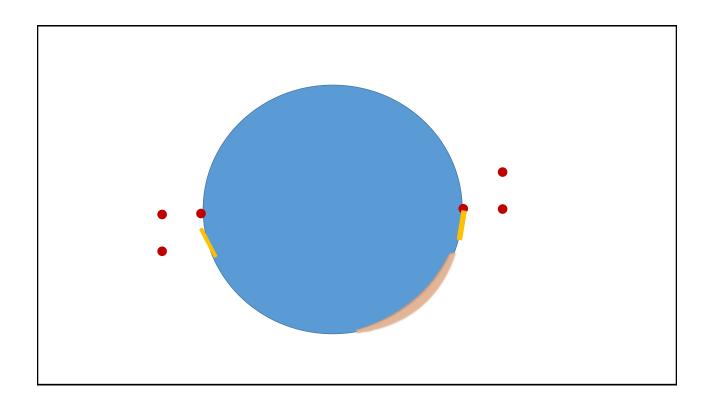




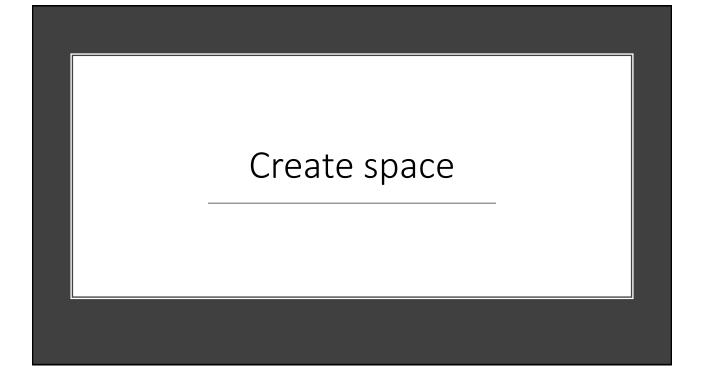
## Side Port for Forceps

At Almost 9 O'Clock



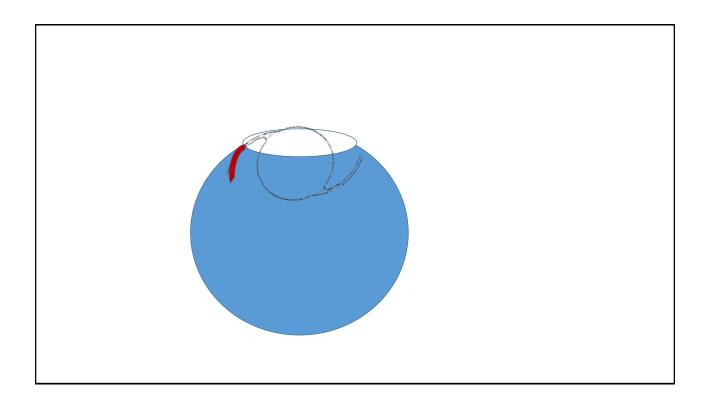


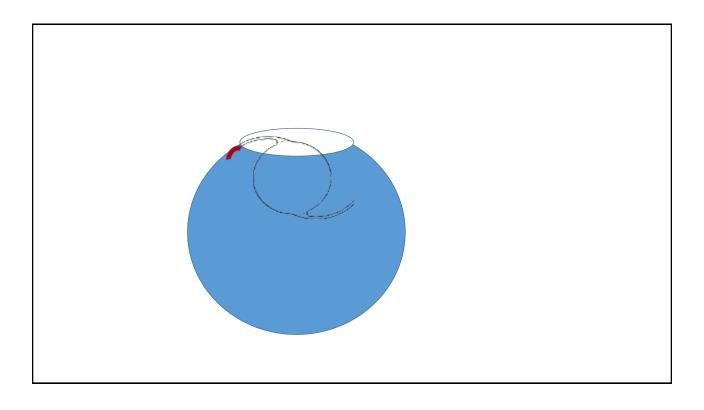
# In addition to the regular anterior segment instruments and viscoelastics



#### Why do I need to create a space?





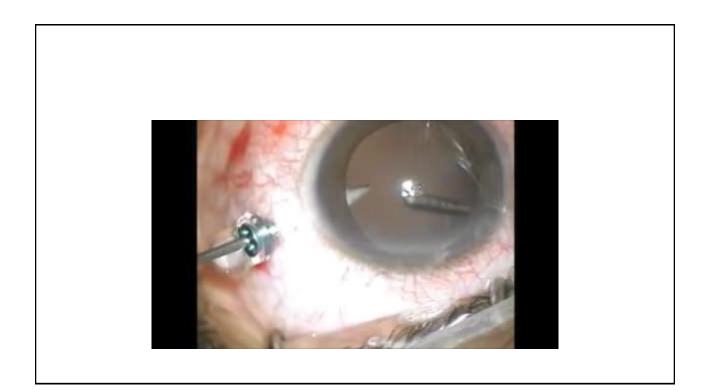


#### How to create this space?

- Proper anterior and core vitrectomy
- Push the optic and lens behind the iris to float in the vitreous

# Anterior Vitrectomy

Should be anterior and core vitrectomy to facilitate sinking of the IOL in the vitreous



# Push Optic behind the iris



