## بسم الله الرحمن الرحيم

### **Advanced Phaco. Course**









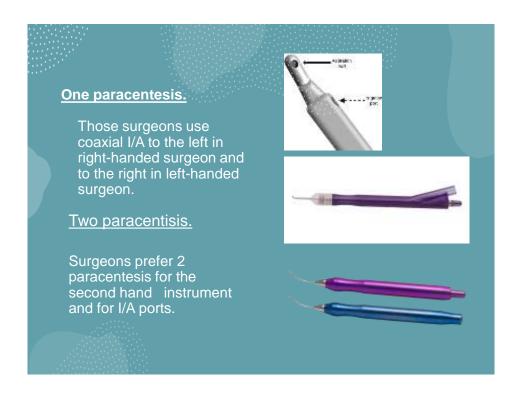
Prof : Ahmed Mostafa Eid, MD
Minia University
EOS 2023

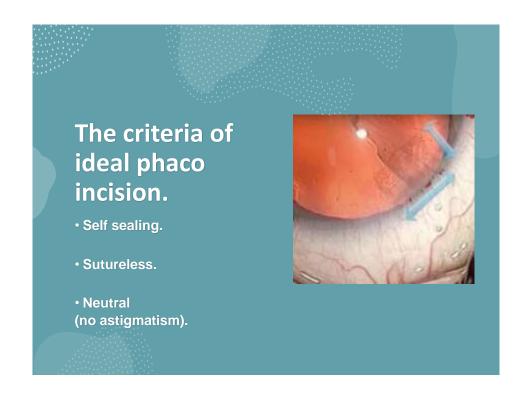


### The phaco. incisions

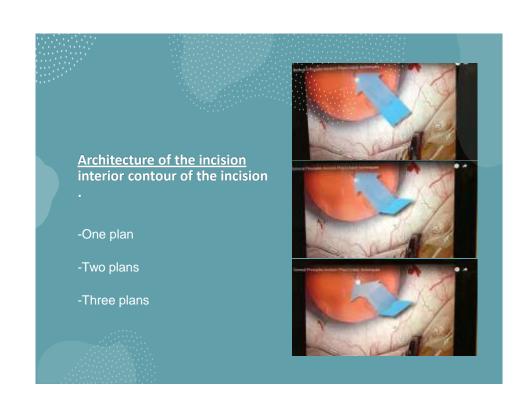
- Main incision
- Side incision ( paracentisis )



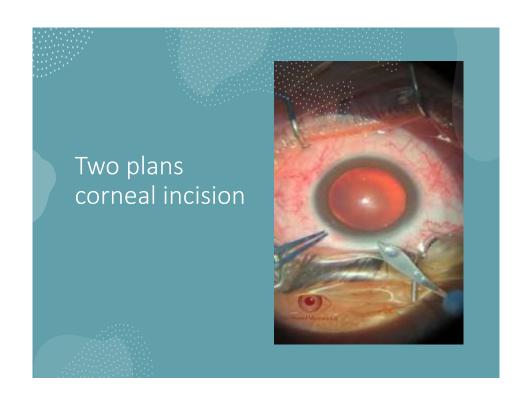




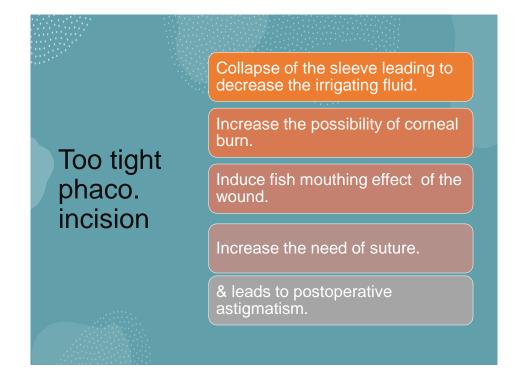


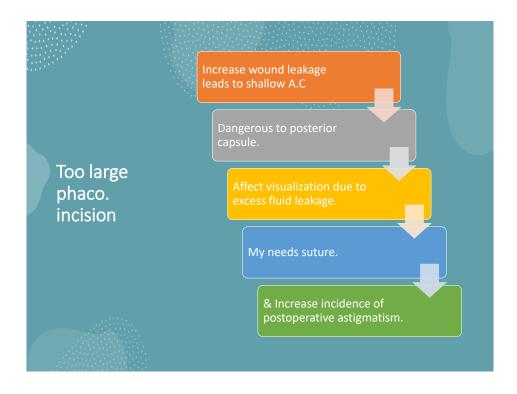


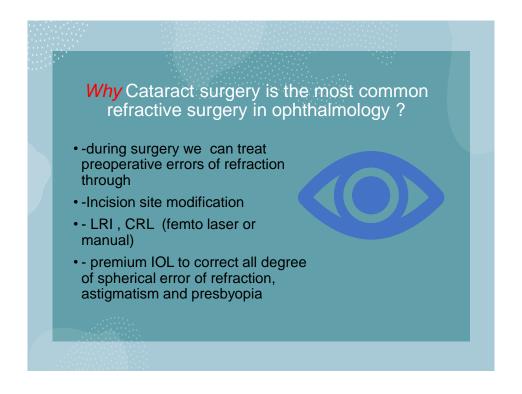


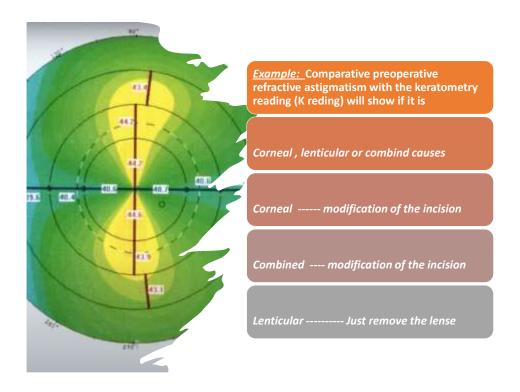


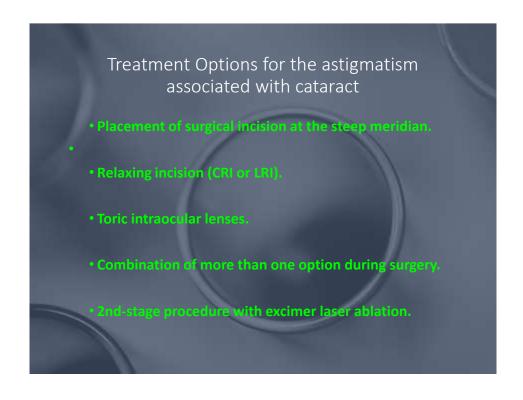










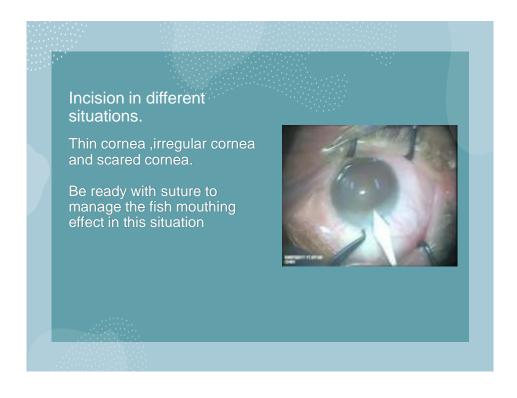


# Advantages of temporal clear corneal incision

- Creates a self-sealing incision that dose not usually require sutures.
- Offers better accessibility especially in sunken glob.
- Offers an excellent red reflex.
- Spares the superior conjunctiva for subsequent surgery.
- Avoid the need of a traction suture.

## Disadvantages of temporal clear corneal incision

- Need the surgeon to adapt to a different surgical position.
- Difficulty in converting to a manual expression ECCE technique.







- preoperative investigation to show the corneal steep meridian ( topography and pachymetry).
- Use blades of good type with sharp tip and sides.
- Eye fixation is important during creating the incision.
- The incision 3mm width and at least 1.5 mm length in the clear cornea is ideal for make self-sealing, neutral and sutureless incision.
- Use suitable size phaco tips and sleeves to prevent fishmouthing effect in tight incision or leaking in large incision

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#### Advanced Phaco. Course

## Phacoemulsification in Traumatic subluxated cataract

(video presentation)

Prof. Ahmed Mostafa Eid Minia University EOS - 2023

6/1/202

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### Commen causes of subluxated cataractus lens

- Ocular truma
- Pseudoexfoliation syndrome
- Large eye (High degree of myopia, b
- Hypermature cataract











## inherited causes of subluxated lens

- Marfan syndrom
- Ehlars-Danlos syndrome
- Homocystinuria
- Hyperlysinemia
- Weill-Marchesani syndrome
- Aniridia
- Familial ectopia lentis

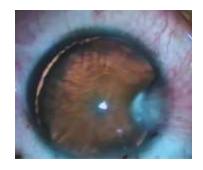








50-year-old male wark as farmer with history of old truma since many years presented by subluxated cataract in his Lt eye
Ophthalmic examination show
Clear corneal centra with large nasal ptrygium under midryasis there is sublaxation of cataractus lens 2-6 clock (4 hours)
Cortecal and posterior subcapsular cat.
in supine position the anterior chamber normal and the iris and lens stabile ,normal iop, normal funds ,V/A 2/60





### Important pointes during management of trumatic subluxated cat.

1- Good evaluation of the degree of subluxation and choose suitable procedure

2- Suitable devices you may be use during the procedur

3- Suitable IOL in this situation

### **Evaluation of subluxation and suitable procedure**

#### Up to 4 clock hours

- 1st choice: CTR with IOL implantation
- 2nd choice: IOL implantation with haptic being used to stretch the bag

 $\underline{4 \text{ to 6 clock hours}}$  Modified CTR with single loop with IOL implantation  $\underline{\text{More than 6 to}} > \underline{9 \text{ clock hours}}$  Modified CT with double loop with IOL implantation

#### 9 or more clock hours

 Intracapsular cataract extraction with post. ch. IOL scleral fixated with sutures or yammany technique, Iris fixated IOL (ant. Or post.) or anterior chamber IOL

### Suitable devices you my use during the procedur

- CAPSULAR TENSION RINGS (CTR) and its modefications
- · Cionni CTR
- · Ahmed segment CTR
- - different types of capsular



### **Suitable IOL** in this situation





