



# IOL INJECTOR MISHAPPENINGS

Mahmoud N. Afifi, MD  
Research Institute of Ophthalmology  
CAIRO - EGYPT

## Injectors:

### ■ Types:

- ❖ Screwing, considered by some slower, safer & more controlled
- ❖ Plunging or piston



Alcon



STAAR



AMO



B&L



Monarch D



OPHTEC



Injex



## Disadvantages of injectors:

- Loading techniques:  
Needs some skill, *better done by the surgeon*
- Improper movement may cause IOL damage
- Injecting techniques:  
Plunging injector threatens posterior capsule

*(Shimizu, 2007)*

## Operative IOL complications:

1. Sticking
2. Optic fracture
3. Loop distortion
4. Torn loop
5. Entangled loop
6. Reversed optic implantation

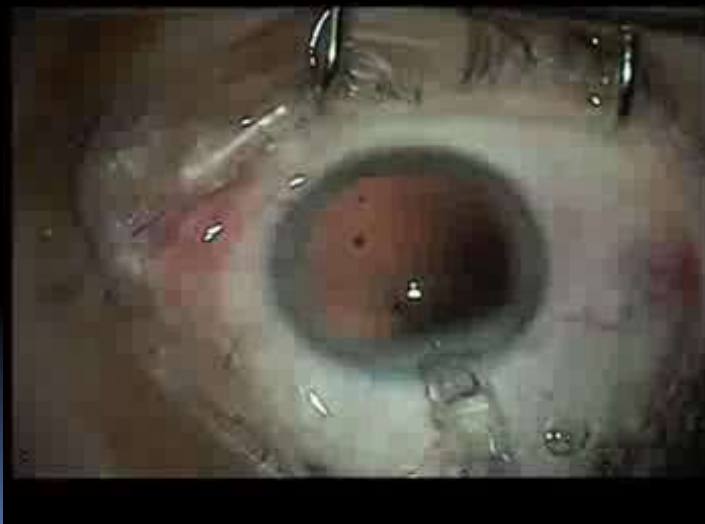


*(Carlson et al, 1998)*

Kinked loop of 3-piece IOL:



Entangled loop of one piece IOL :



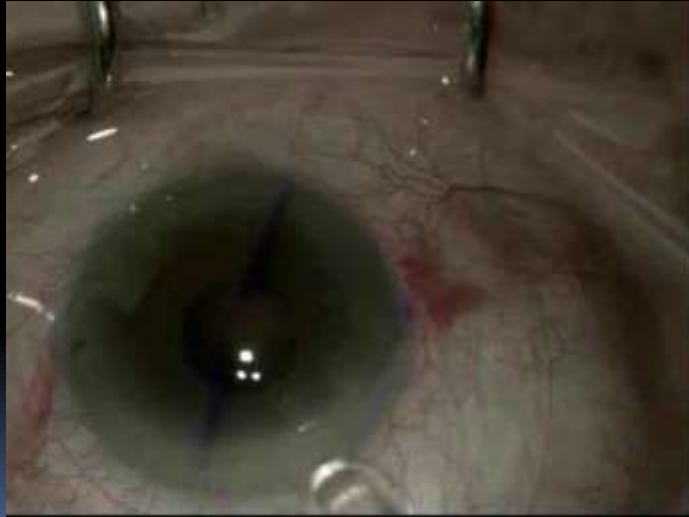
Entangled loop of three piece IOL:



Reversed IOL implantation:



## Rotated Toric IOL:



## Adjust IOL in Cartridge:



## Conclusion:

- Injector is an advancing technology
- Applied with all new IOLs eg. one piece, phakic and ICLs
- Known advantages  
BUT
- Respect loading details
- Better done by the surgeon himself

***THANK YOU***

