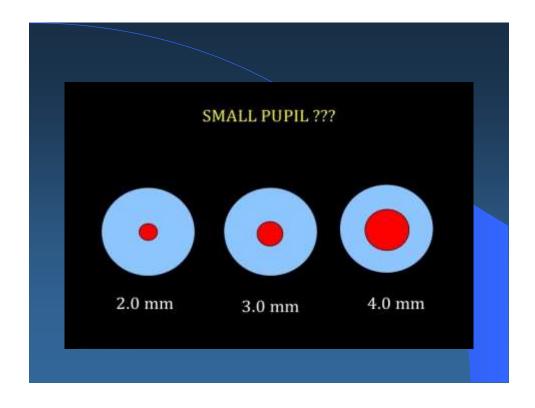




## **Small pupil**

- Represents a great challenge in phaco surgery.
- It is relative C.I for inexperienced phaco surgeon
- It should be anticipated in the preoperative
  examination by the dynamic & static methods



## Causes of small pupil

Etiology	Mechanism
DM	Metabolic changes & rubeosis
PEX	Iris Dilator & sphincter atrophy
IFIS	Dilator muscle atrophy
Age related	Iris atrophy
Post synechia	Uveitis , ACG , Previous surgery

## Technical challenges:

- ↓ red reflex
- ↑ risk of Iris damage & prolapse
- ↓ size of rhexis
- ↑ Risk of residual cortical material
- Inadequate positioning of the in bag IOL

## Step-wise approach in management of small pupil

- A. Preoperative : NSAID,Tropicamide,cycoplgia & phenylepherine
- B. Intra operative
  - Interacameral injection of phenylephrine / Adrenaline
  - Viscodilatation
  - Posterior synechiolysis
  - > Pupil stretching technique
  - A. Pupil expander devices









