WHAT IS PEDIATRIC CATARACT?



 Paediatric cataracts occur due to some disturbance in the normal growth of the lens

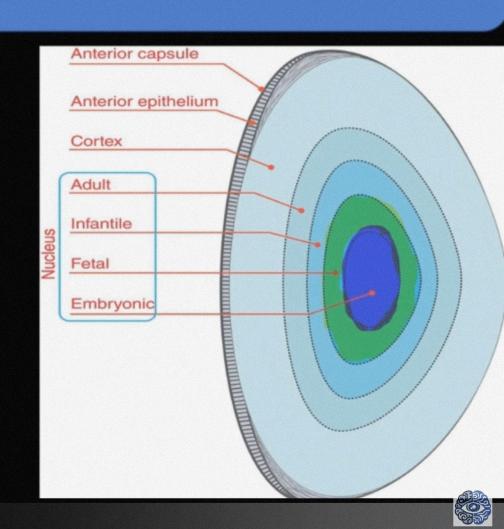
CONGENITAL CATARACT

DEVELOPMENTAL CATARACT



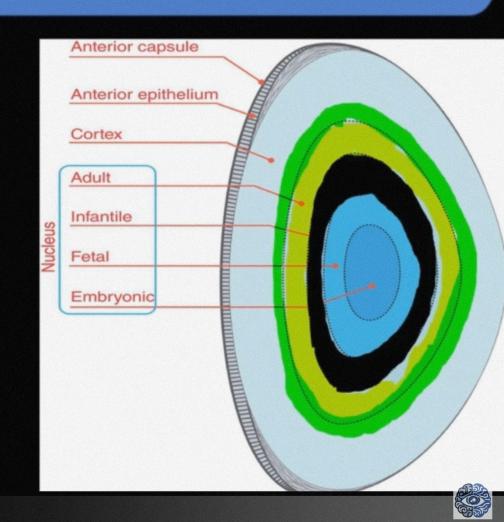
CONGENITAL CATARACT

- When the disturbance in lens growth occurs before birth.
- Opacities are present at birth but usually diagnosed within FIRST year of life.
- Limited to either EMBRYONIC or FOETAL NUCLEUS



DEVELOPMENTAL CATARACT

- When the disturbance in lens growth occurs from infancy to adolescence
- Opacities involve the INFANTILE or ADULT NUCLEUS, Deeper parts of cortex or CAPSULE.



UNILATERAL OF BILATERAL CATARACT?







OCULAR ANOMALIES/ LOCAL DYSGENESIS

RADIATION EXPOSURE

TRAUMA to eye

IDIOPATHIC







- NOT Inherited
- MOSTLY not related to systemic disorders
- NOT related to METABOLIC DISORDERS





OCULAR ANOMALIES/ LOCAL DYSGENESIS

POSTERIOR SEGMENT
PATHOLOGY

TRAUMA
RADIATION EXPOSURE

IDIOPATHIC





OCULAR ANOMALIES/ LOCAL DYSGENESIS

- Persistent Fetal Vasculature
- Posterior Lenticonus
- Posterior Segment Tumor
- Posterior Segment Pathology,
- Retinal Detachments Of Any Cause
- Uveitis



OCULAR ANOMALIES/ LOCAL DYSGENESIS

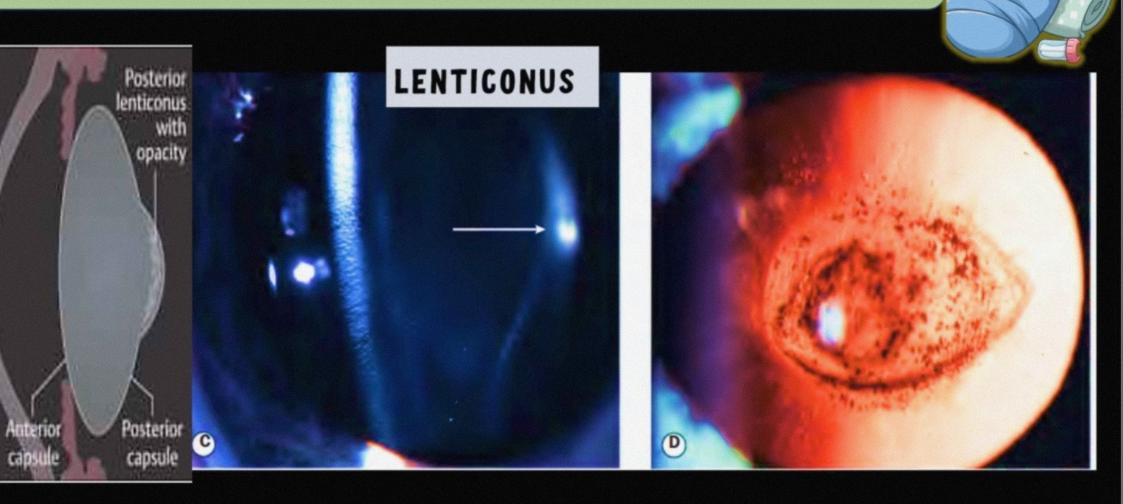


PRIMARY PERSISTENT HYPERPLASTIC VITREOUS (PHPV)

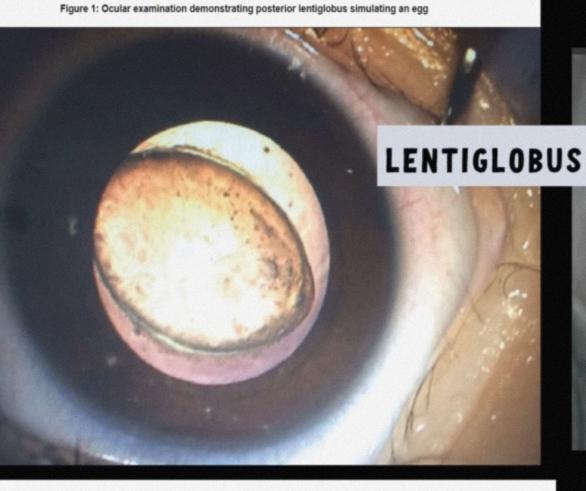


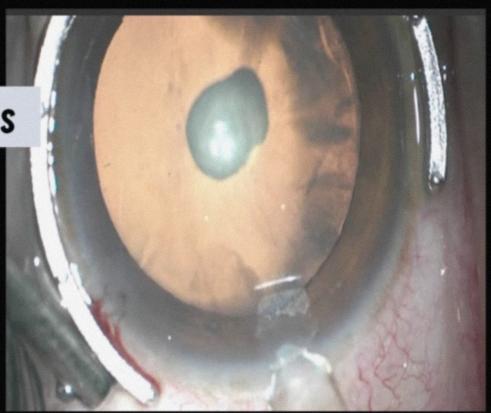


OCULAR ANOMALIES/ LOCAL DYSGENESIS









Posterior lentiglobus

Parul Chawla Gupta, Jitender Jinagal, Jagat Ram

Department of Ophthalmology, Postgraduate Institute of Medical Education and Research, Chandigarh, India

POSTERIOR POLAR CATARACT

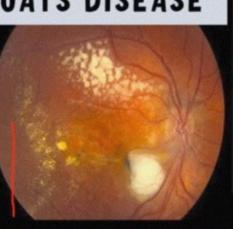


POSTERIOR SEGMENT PATHOLOGY





COATS DISEASE



ROP

RETINAL DETACHMENT

NEVER FORGET TO **DO B SCAN** ultrasonography to diagnose these conditions



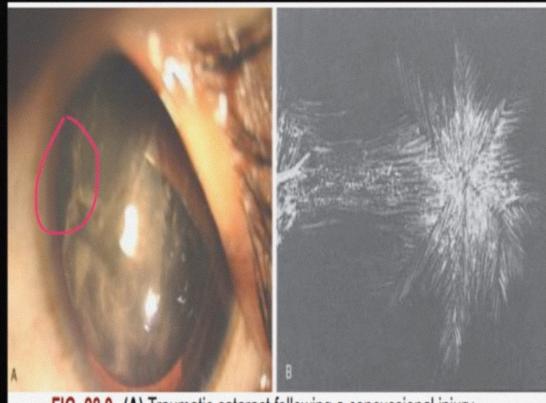
TRAUMA RADIATION EXPOSURE

- Birth trauma
- Child abuse
- Radiation exposure
- Electric cataract





TRAUMATIC CATARACT /ROSETTE CATARACT



• FIG. 28.9 (A) Traumatic cataract following a concussional injury, showing a posterior rosette and zonular dialysis to the left. (B)

Lens material in AC through ruptured lens capsule



RAUMATIC CATARACT /ROSETTE CATARACT

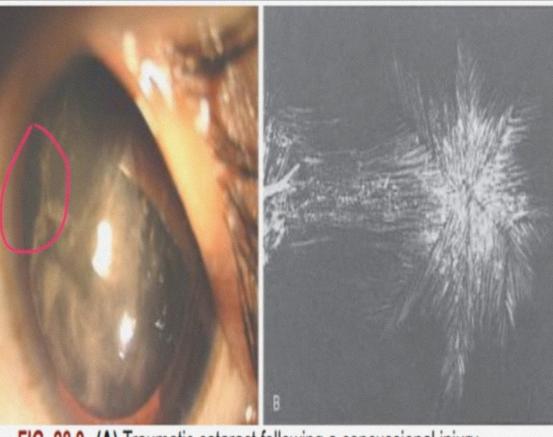
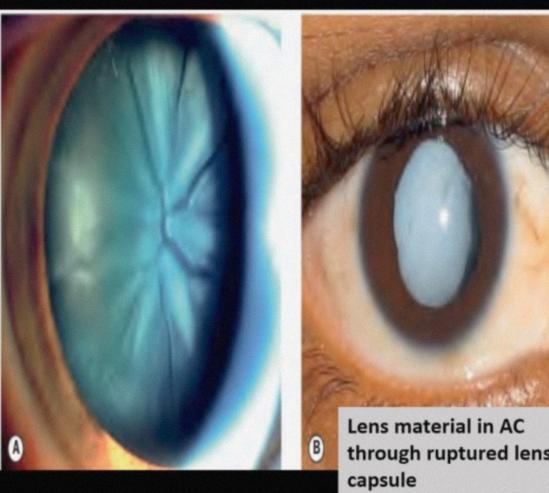
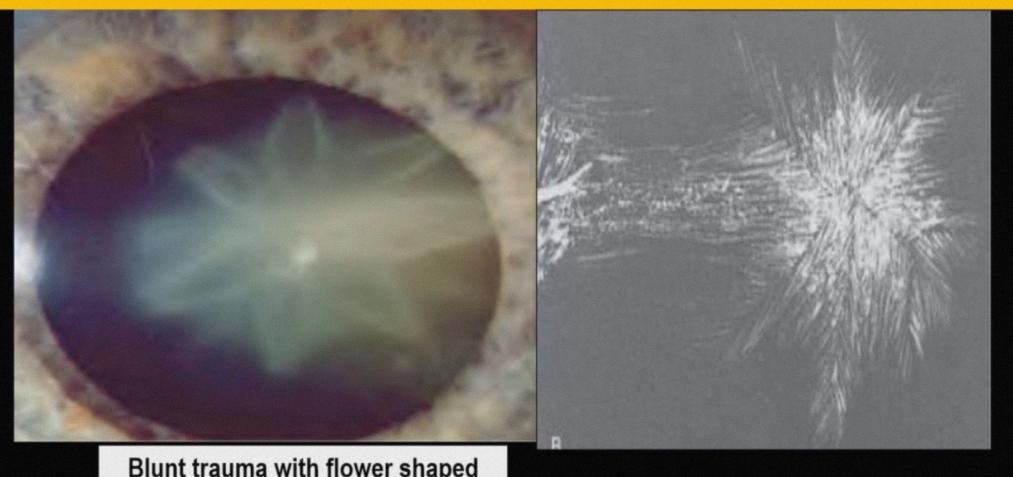


 FIG. 28.9 (A) Traumatic cataract following a concussional injury, showing a posterior rosette and zonular dialysis to the left. (B)



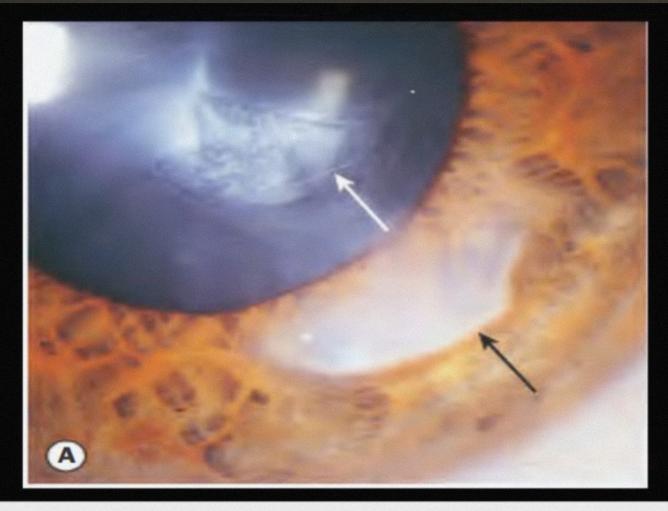


TRAUMATIC CATARACT /ROSETTE CATARACT



Blunt trauma with flower shaped cataract



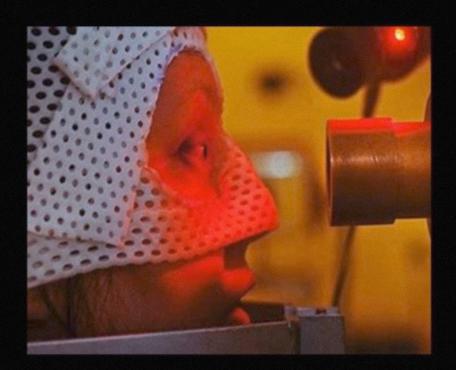


Penetrating trauma: indicating cataract formation at the site of entry wound into lens, and corresponding corneal tear.



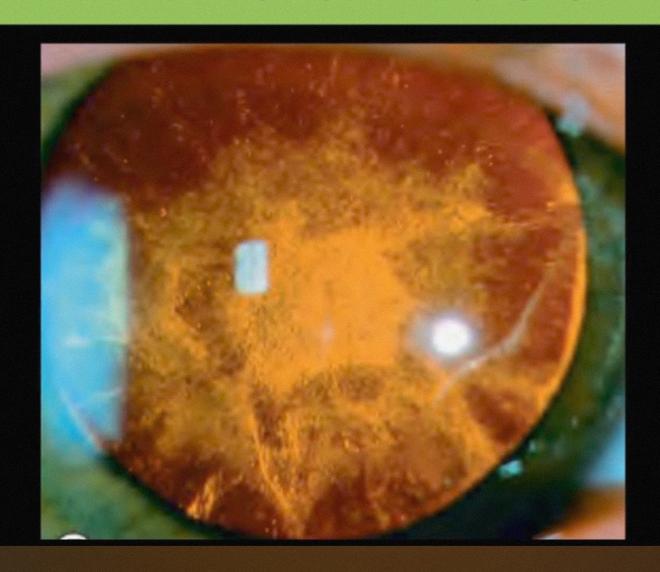
RADIATION CATARACT

- Direct action of the rays on the dividing cells and developing fibers of the lens itself.
- Starts near the equator shortly after radiation.
- They resemble those of heat cataract in appearance.
- Maturation of the cataract may occur fairly rapidly





IONISING RADIATION CATARACT





ELECTRIC CATARACT

 Flash of lightning or the shortcircuiting of a high-voltage current.

 The cataract usually starts as punctate, subcapsular opacities and matures rapidly.

