

White senile cataract

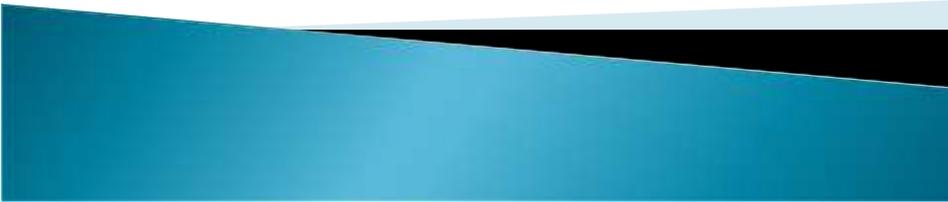
By

Prof. Khaled fawzy

Ahmed moemen MD

Zagazig university

EGYPT



challenges

- ▶ Phacoemulsification in white senile cataract is a challenge ,even to the most experienced surgeon
- ▶ Difficult capsulorhexis , hardness of nucleus and weakness of zonules are some of the difficulties



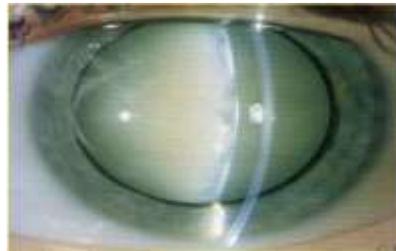
Types of white senile cataract

- ▶ **Mature** cataract
- ▶ **Hypermature** cataract
- ▶ **Morganian** cataract
- ▶ **Intumescent** cataract



Senile mature cataract

- ▶ **Color** : pearly white , homogenous
- ▶ Normotensive[normal fluid & size]
- ▶ Slit lamp: low convexity of anterior capsule , no glistening
- ▶ Fluid free



Mature cataract

- ▶ Surgical management:
- ▶ Capsular **stain**
- ▶ **Careful** hydro dissection
- ▶ **Multiple** nucleus divisions during phaco



Hypermature cataract

- ▶ Corrugated , may be calcified capsule
- ▶ Hypotensive , less fluid
- ▶ **Zonules may be weak**, needs **careful phaco**
- ▶ Same surgical steps as in mature cataract



Morganian cataract

- ▶ Color : homogenous white
- ▶ Liquefied cortex into milky soup with movable dark nucleus
- ▶ Fluid filled
- ▶ Fluid circulate in **one continues space**
- ▶ Capsular puncture : fluid milky cortex fills anterior chamber



Fluid cortex , one cont. space

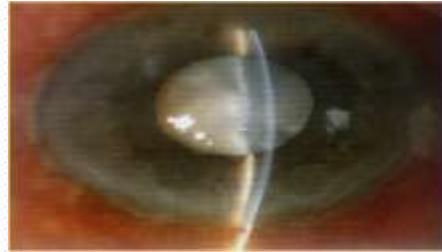
Morganian cataract

- ▶ **Surgical management:**
- ▶ stain capsule
- ▶ puncture
- ▶ **wait** until complete fluid cortex evacuation
- ▶ **Exchange** opaque viscoelastic
- ▶ complete rhexis then Proceed as in mature cataract
- ▶ No need for hydrodissection , **weak zonules**



Intumescent cataract

- ▶ Color : pearly white
[various shades]
- ▶ Slit lamp : high convexity , glistening of anterior capsule
- ▶ Fluid filled , hypertensive
- ▶ Large nucl.+ cortex Divide fluid into 2 separated anterior and posterior compartments
- ▶ During rhexis posterior fluid may push nucleus forward causing extension



fluid filled, 2 separate spaces

Phaco in intumescent cataract



- ▶ 2stages capsulorhexis:
- ▶ Stain
- ▶ Small rhexis 3mm
- ▶ Evacuate fluid from posterior compartment
- ▶ Enlarge rhexis
- ▶ No hydro dissection

2stages capsulorhexis

management

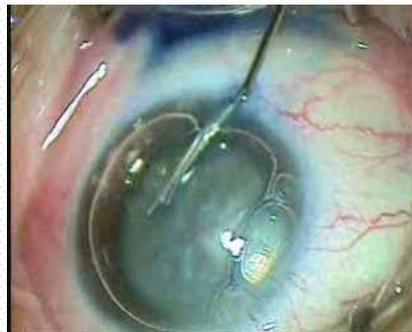
Spiral and 2 stages rhexis in intumescent cataract



Intumescent cataract



Spiral rhexis



2 stages rhexis

Thank you

