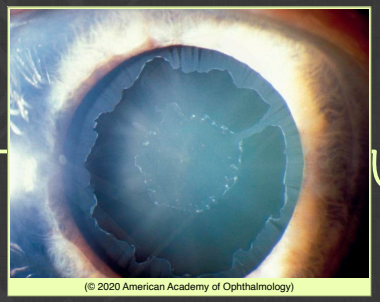
Pseudoexfoliation Syndrome (PXF)

Case Description
middle-aged woman comes for routine eye examination

Image Description


deposition of white fibrillar material in a concentric "bull's-eye" pattern on the anterior lens capsule

Differential Diagnosis
- ❤ PXF syndrome
  - bilateral asymmetric
  - multifactorial
    - LOXL1 mutation
    - UV light exposure
  - family history of glaucoma
- ❤ true exfoliation
- ❤ amyloid
  - over lens capsule
  - at pupillary margin
- uveitis
  - photophobia
  - KP
  - PAS/PS
  - fluctuating IOP
- pigment dispersion syndrome (PDS)
  - myopia
    - retinal detachment
  - deep AC
  - midperipheral TIDs
- UGH syndrome
  - prior surgery

Data acquistion
- History
  - European (Scandinavian) origin
  - occupation
    - exposure to heat
      - glass blower
      - welder
        - true exfoliation
  - ★ family history of glaucoma
- Physical Exam
  - slit lamp
    - IOP
      - unstable
    - fibrillary/flaky material
      - endothelium
      - anterior lens capsule
        - dilate pupil
    - ★ zonular laxity
      - phacodonesis
      - iridodonesis
    - K spindle
    - AC cells
      - uveitis
    - TIDs
      - peripupillary
        - PXF
      - mid-peripheral
        - PDS
    - degree of pupil dilation
      - poor pupil dilation in eyes with PXF
    - gonioscopy
      - TM pigmentation
        - Sampolesi line
          - PXF
          - PDS
  - funduscopy
    - optic disc cupping

Patient Education
- Prognosis & Complications
  - PXF glaucoma has worse prognosis than POAG
  - wide IOP fluctuations
  - can progress rapidly
  - 6x higher risk of glaucoma
  - cataract surgery is risky ⚠
    - poor dilation
    - weak zonules
      - zonular dehiscence
        - phacodonesis
        - lens subluxation
      - vitreous loss
    - retained lens material
- Follow-up
  - glaucoma monitoring
    - q 6-12 mo
      - no glaucoma
    - q 1-3 months
      - glaucoma

Treatment
- Medical
  - glaucoma eye drops
- Surgical
  - response is short-lived
    - SLT
    - ALT
  - filtering surgery

Assessment
- PXF syndrome

Additional Testing
- VFs

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