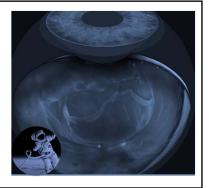
A Journey to the Peripheral Retina: Diagnosis and Management of Peripheral Retinal Disease A Clinically Relevant Review

Mohammad Rafieetary, OD, FAAO mrafieetary@charlesretina.com



#### Disclosures

- Mohammad Rafieetary, OD, FAAO
  - Charles Retina Institute
- Alcon/Novarits
- Genentech
- · Heidelberg Engineering
- Notal Vision
- Regeneron
- RegenXbio

### Purpose of physical examination, Diagnostic testing and imaging

- Screening and inspection for Specific or common (endemic or epidemiological) or even rare conditions
  - Myopia, Amblyopia, Glaucoma,
- Discovering cause or etiology in a symptomatic patient
- Example: Loss of sight, Flashes, Floaters
- Examining for complications of certain systemic disease or Medication/Treatment
  - Example: Diabetes
- Evaluating coincidental findings
  - Example: Asymptomatic with OHS, Lattice, various lesions and

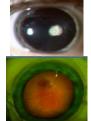
#### Peripheral Retinal Abnormalities

(Primary or Secondary Conditions)

- Peripheral Lesions
  Meridional Folds, Pars Plana Cysts, Ora Serrata Pearls
- Degenerative Disorders
  Paving Stone, Lattice, Acquired Retinoschisis
- Vitreous and Vitreoretinal Interface Caused Degenerative vitreopathies, Tufts, Holes, Tears,
- Retinal Vascular
  Coats, PEHCR, Sickle and Diabetic, Vascular Tumors
- Inflammatory, Infectious Disease
  Pars Planitis, ARN, CMV
- Pigmented Lesions
  CHRPE, Choroidal Nevus and Melanoma, pigmented CRS
- Trauma

#### Dilation

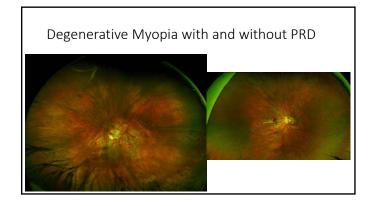
- For proper evaluation of the crystalline lens and beyond
- · Maybe able to get by in young patient
  - Slit lamp lenses (90D)
  - 28 D lens
- Or Imaging
- · Medical-Legal and Standard of Care Concerns
- - Technique and Skill in Detection (What am I looking at?)
  - Recognition of the findings and proper assess (What is this what do I do with it?)
  - Patient flow, and patient complaints of inconvenience (How do I convince the PT they need it?)



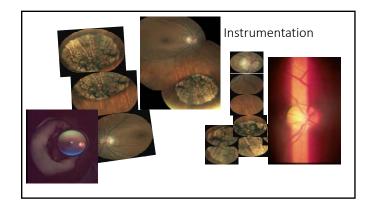
#### Dilation Risks and Benefits

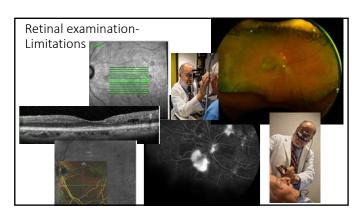
- At risk population
- Systemic conditions such as Diabetes
- Family history
- Trauma
- Symptoms
- Clinical/Examination Findings (High Myopia)

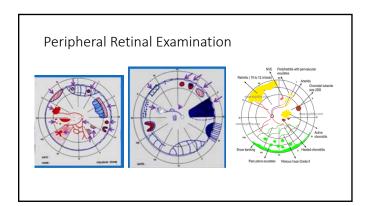




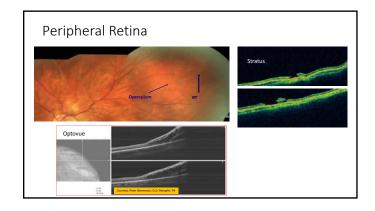


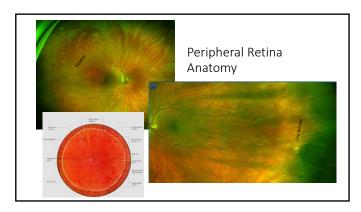


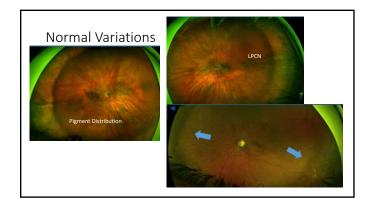


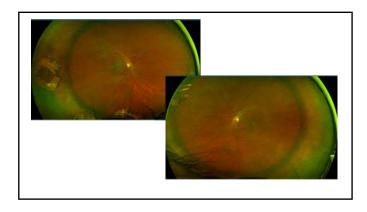


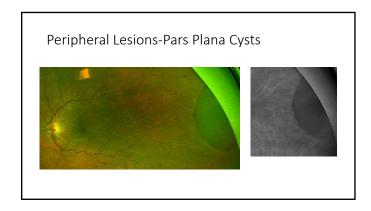


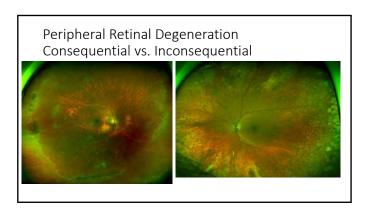


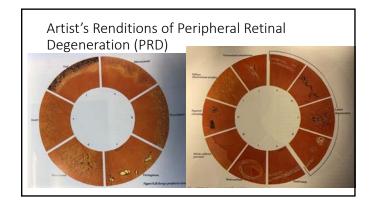






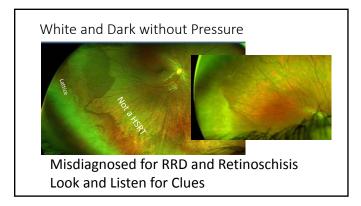


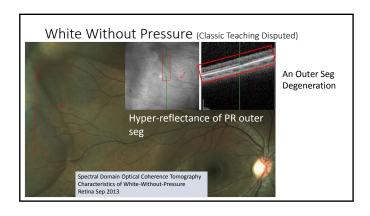


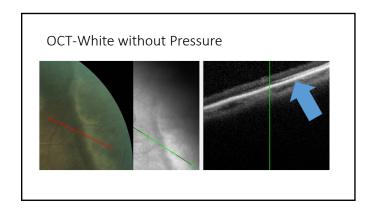


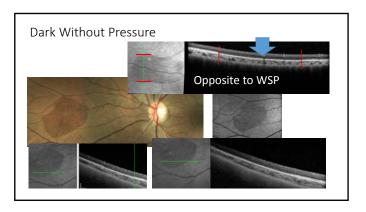
# Peripheral Retinal Degeneration Association With RRD

- Association of these conditions with inner or outer retina
- The architectural association of vitreous and retinal surface
- The integrity of "normal" retinal thickness
- Peripheral Retinal Degeneration
- Of Outer Retina
- Of Inner Retina
- Coexisting Conditions may or may not be interrelated or may have common root (e.g., myopia, genetics)
- Similarities with central retinal conditions

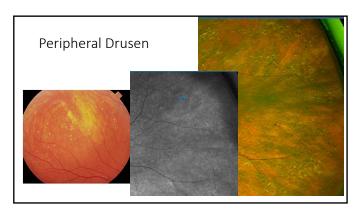


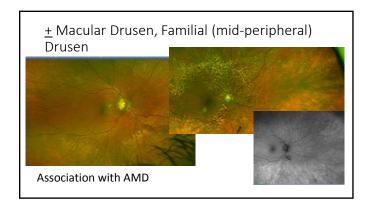


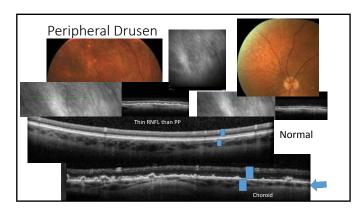


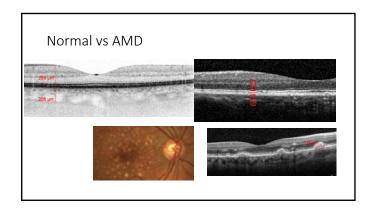


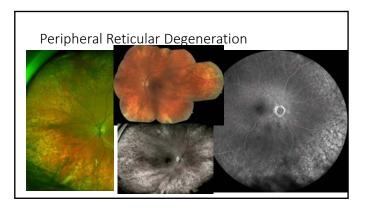


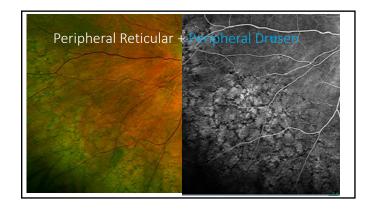


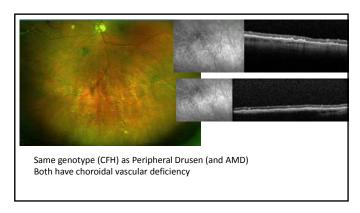


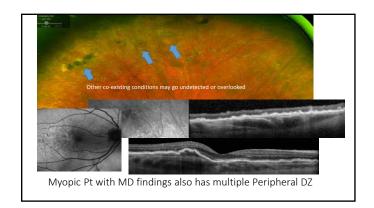


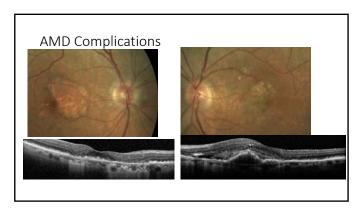


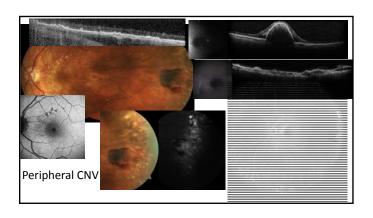


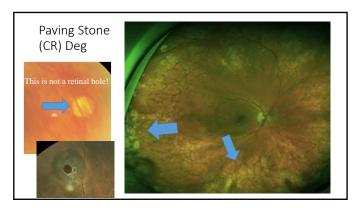


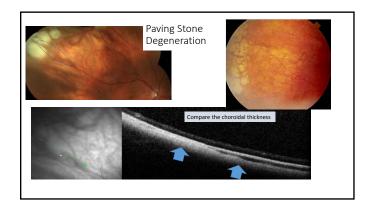


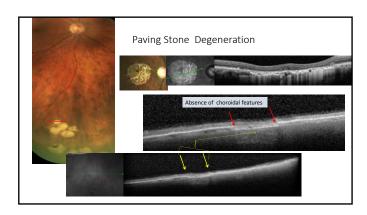


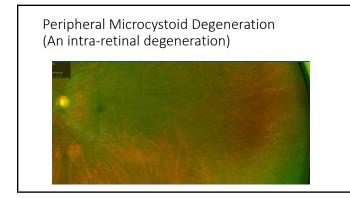


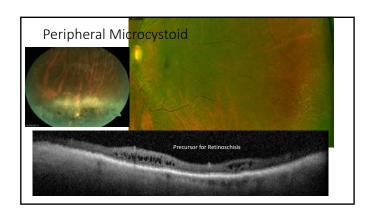


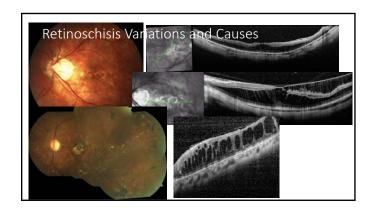


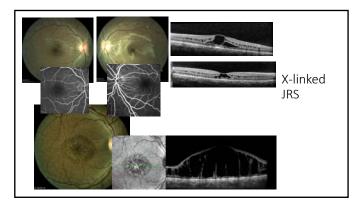


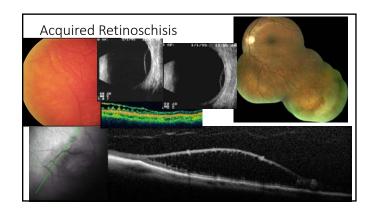


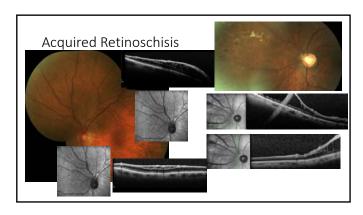


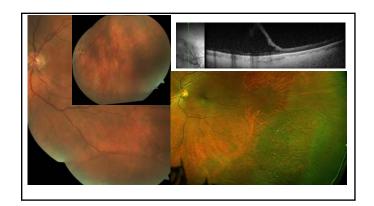


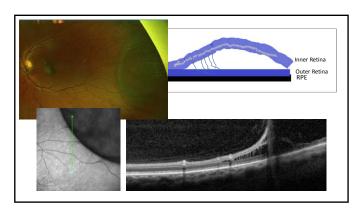


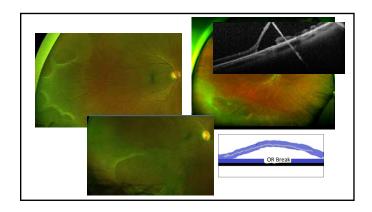


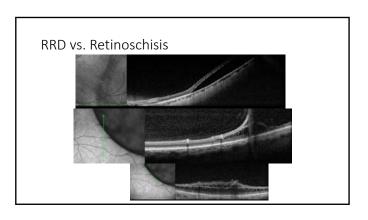


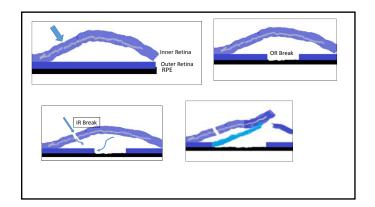


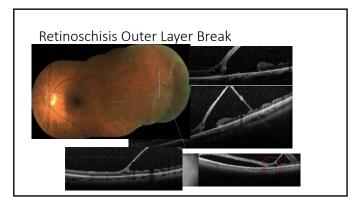


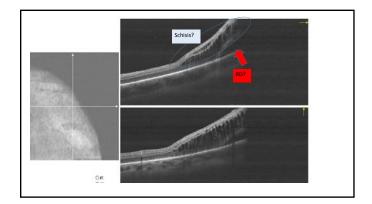






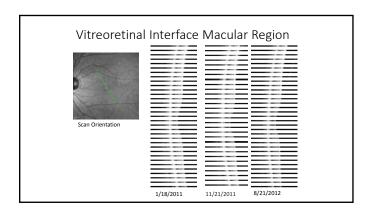


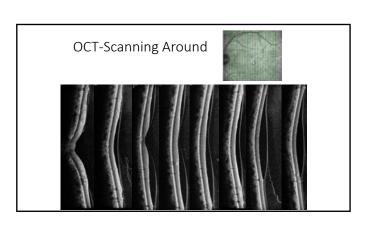


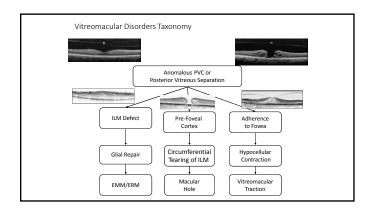


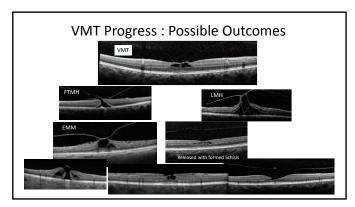
## Role of Vitreous

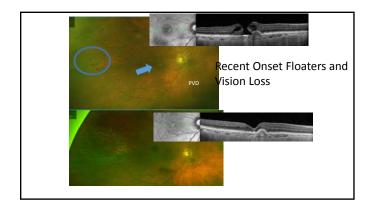
- Architectural/Anatomic Implications
- Effect of Aging
- Congenial Anomalies
- Degenerative Vitreopathies

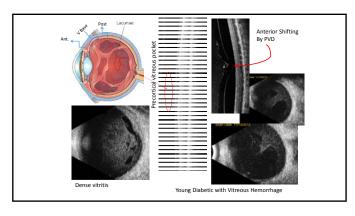


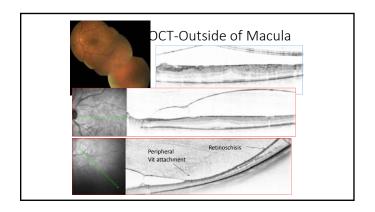


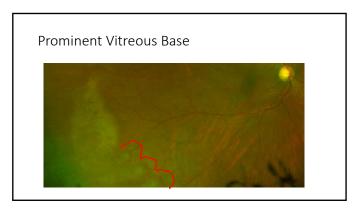




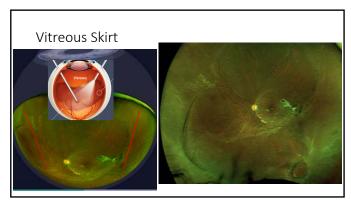


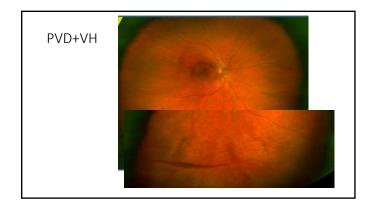


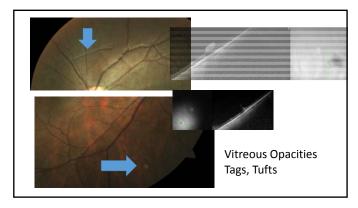


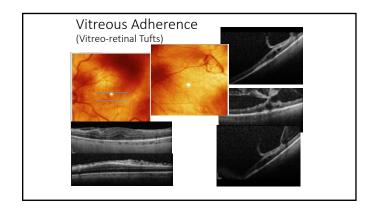


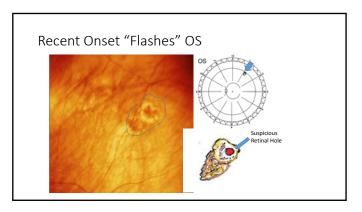


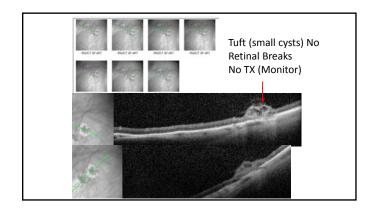


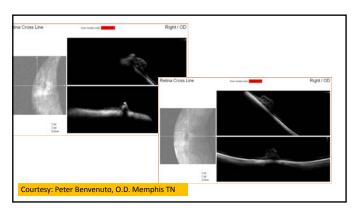


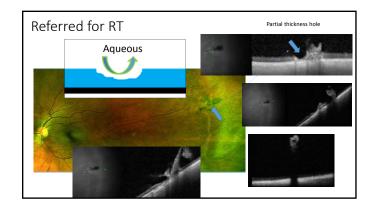


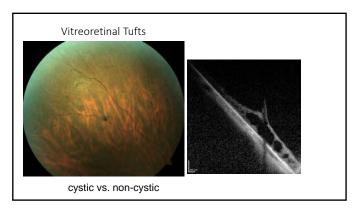


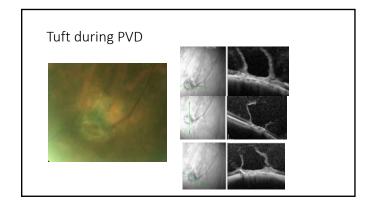


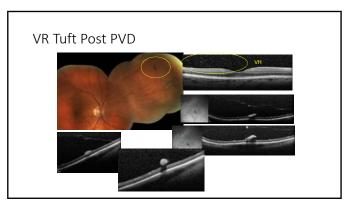


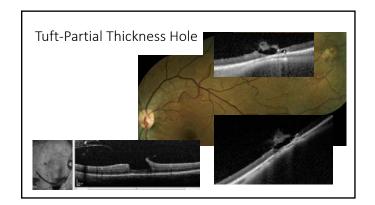


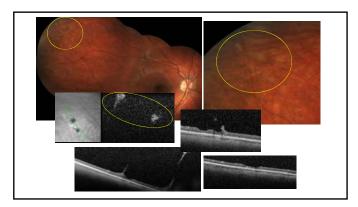


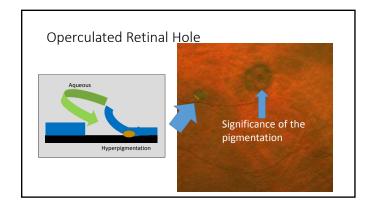


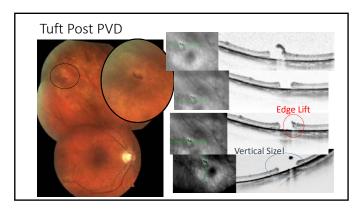


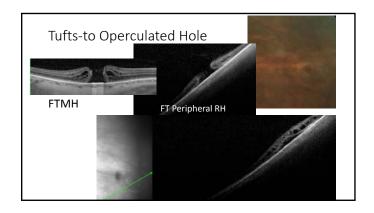


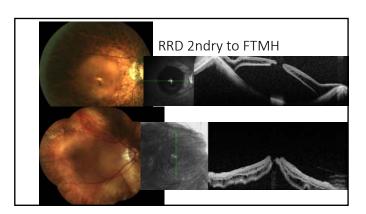


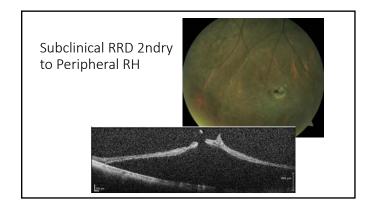


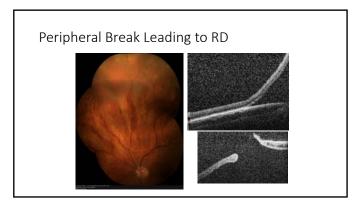


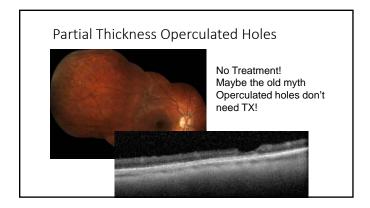


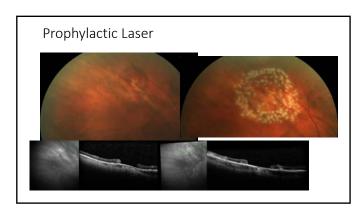


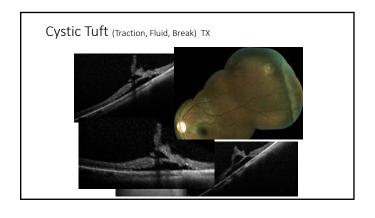


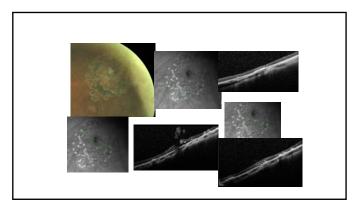


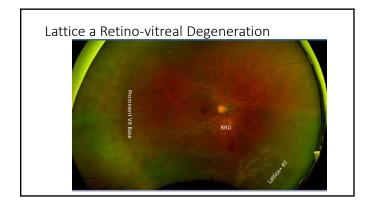


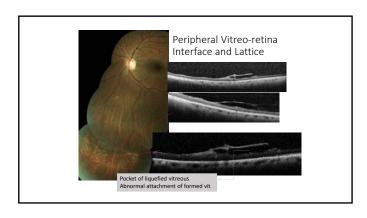


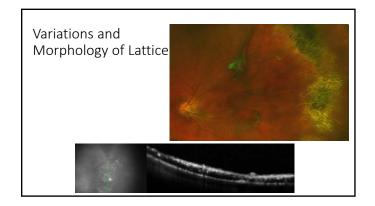


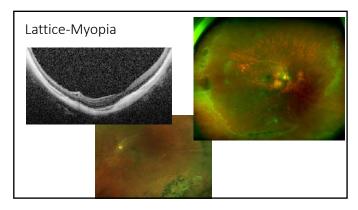


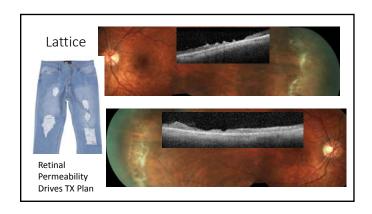


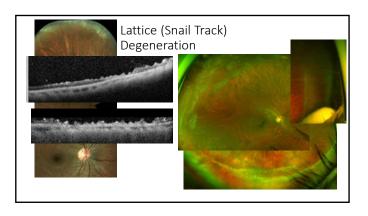


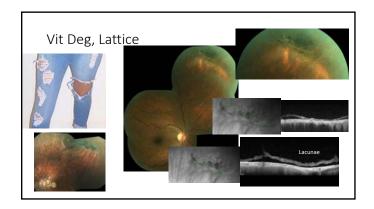


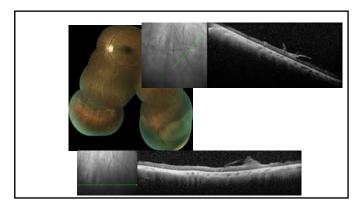


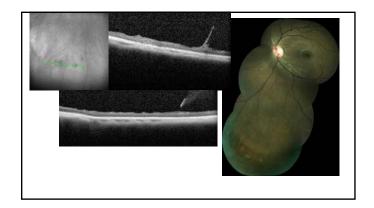


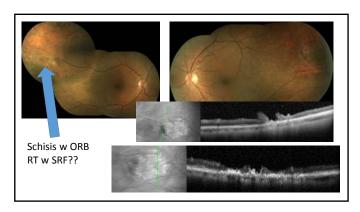


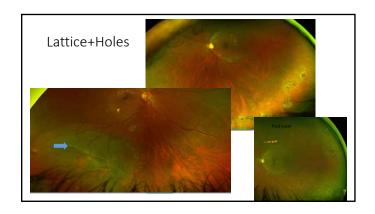


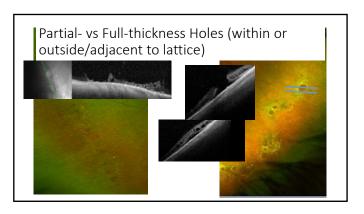


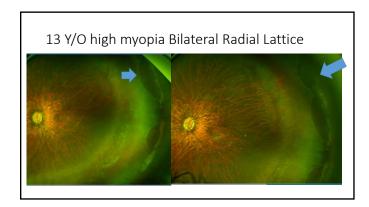


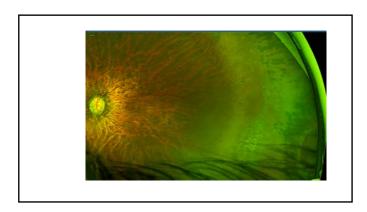


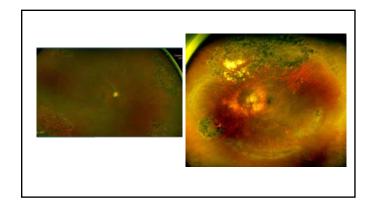


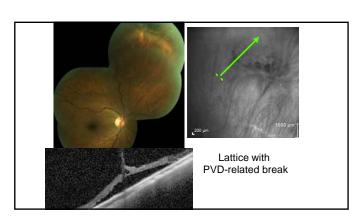


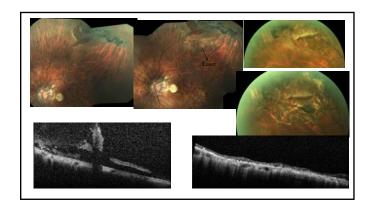


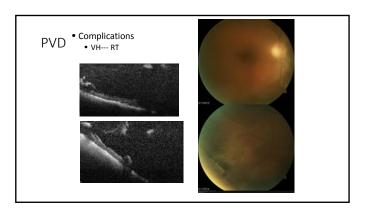


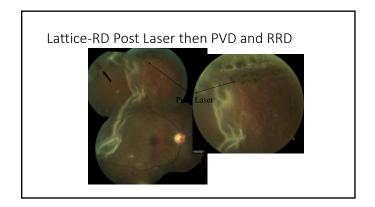


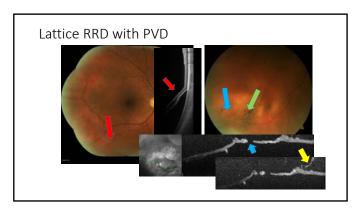


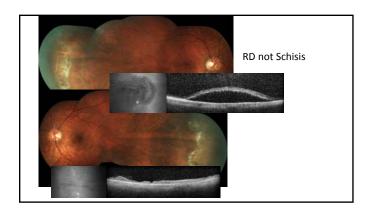


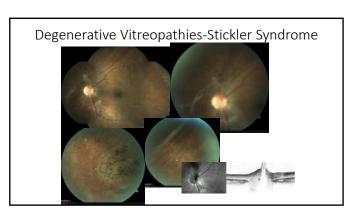


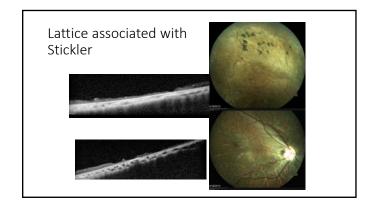


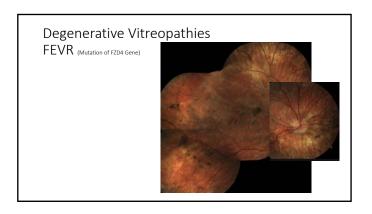






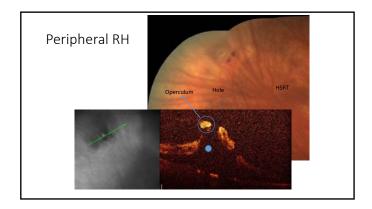


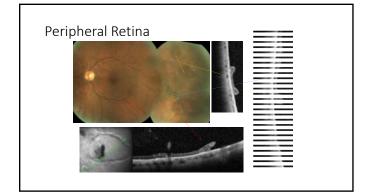




# Retinal Breaks (Holes, Tears)

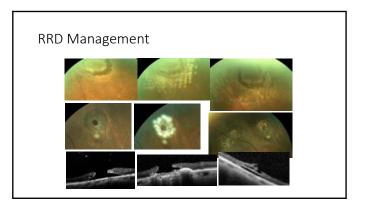
- With and Without Symptoms
- With and Without PVD
- With and Without RRD

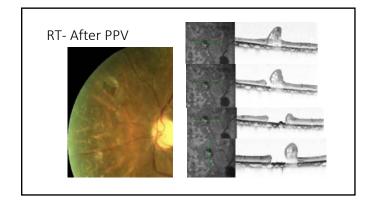


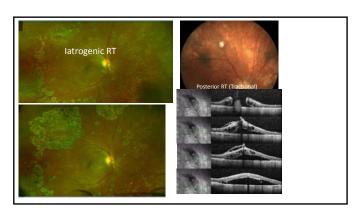


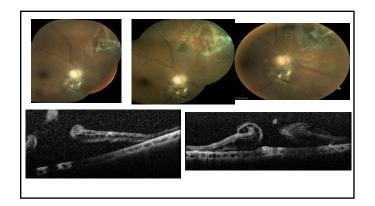


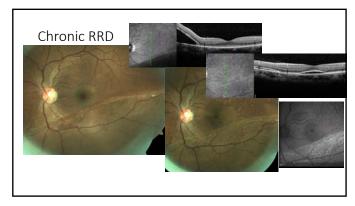


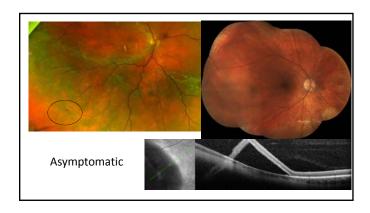


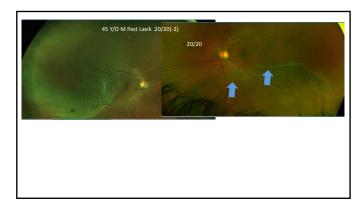


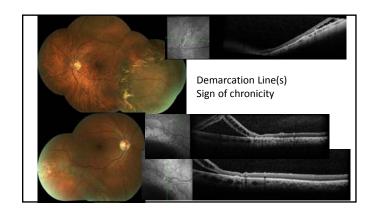


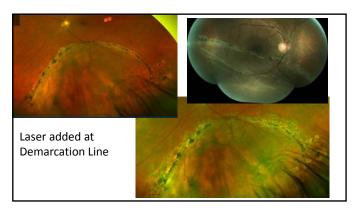




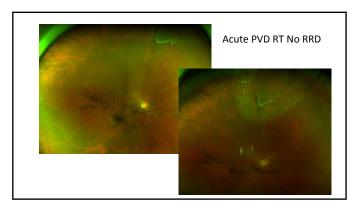


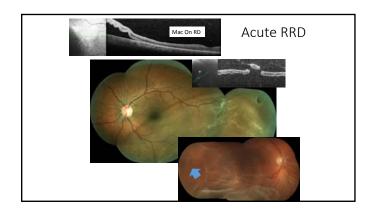


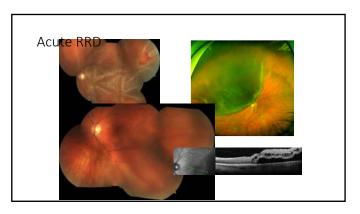


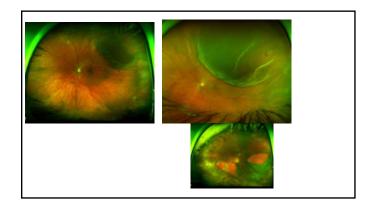


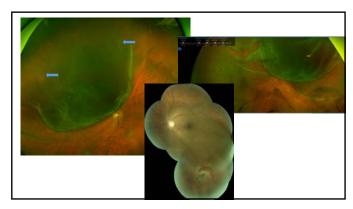


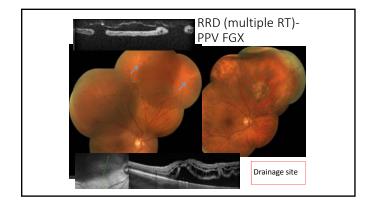


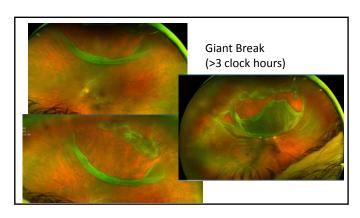


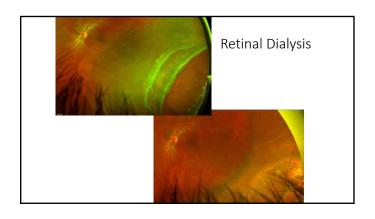


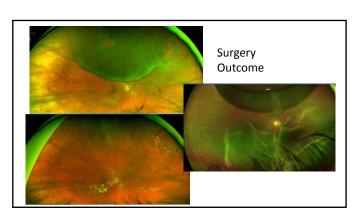


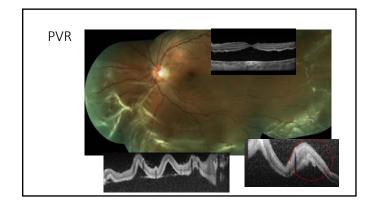


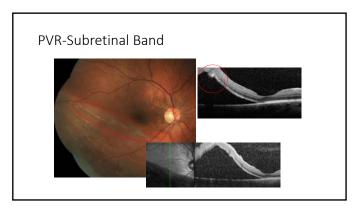


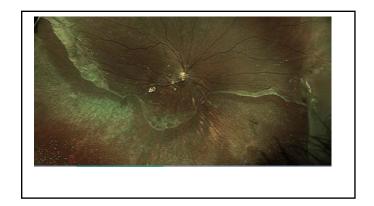


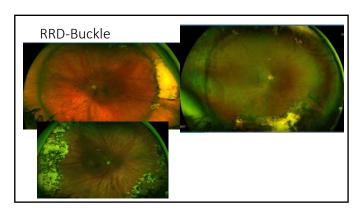


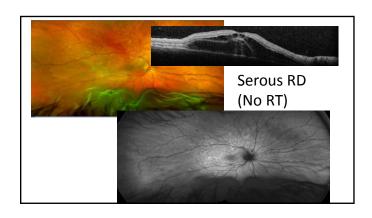


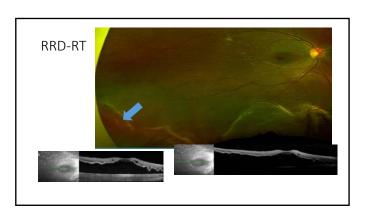


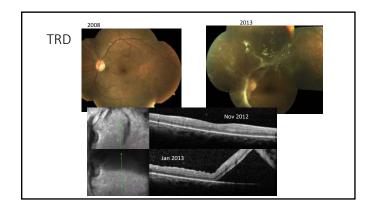


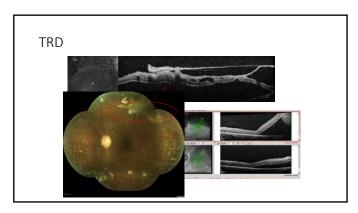


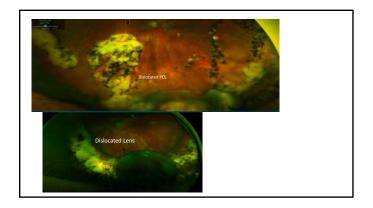




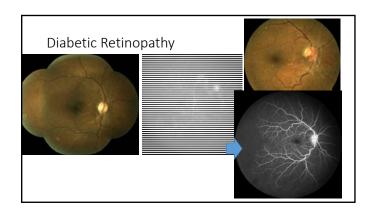


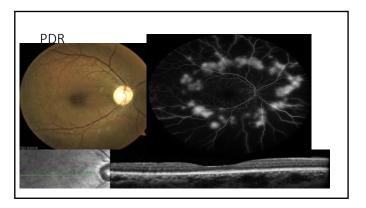


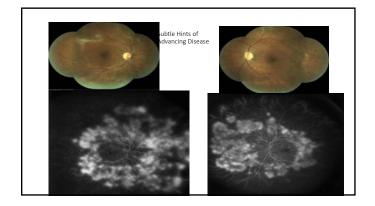


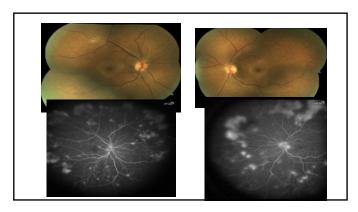


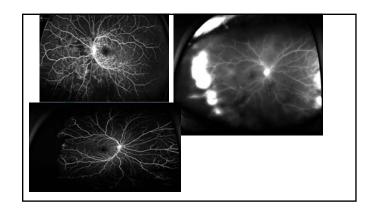
Peripheral Vascular Didease

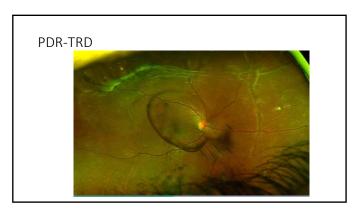


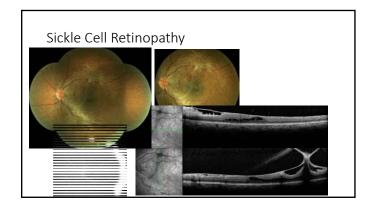


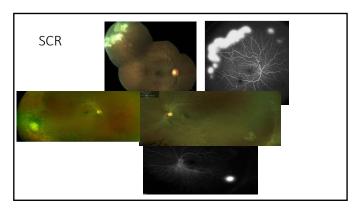


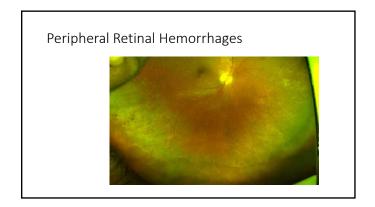


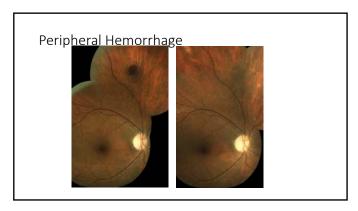


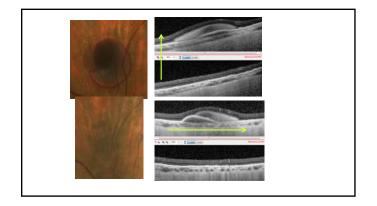


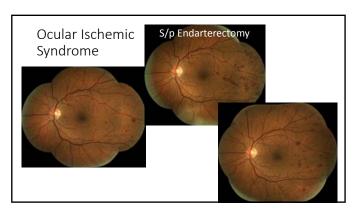


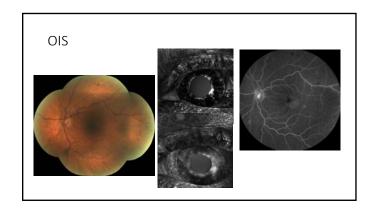


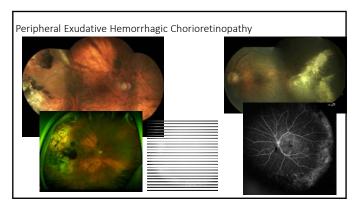


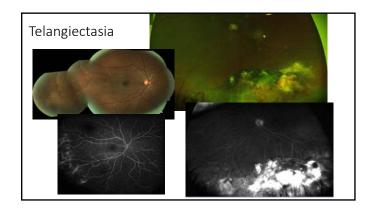


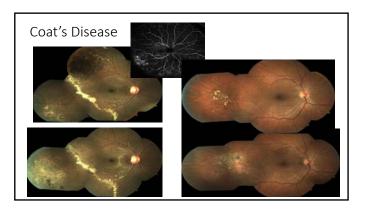




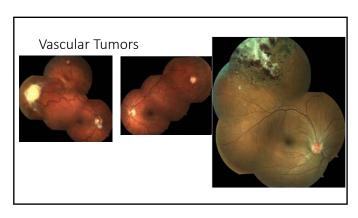


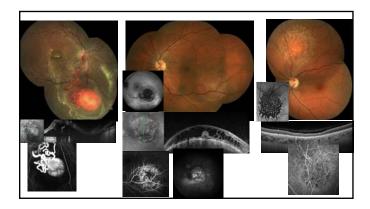




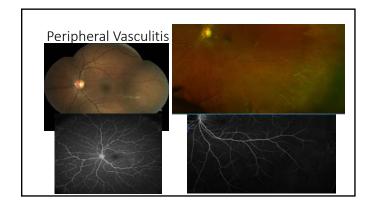


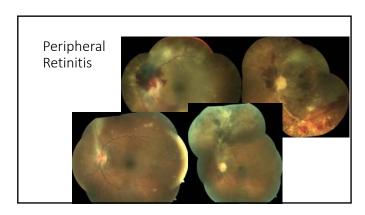


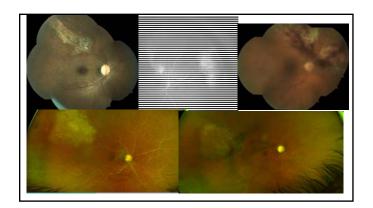


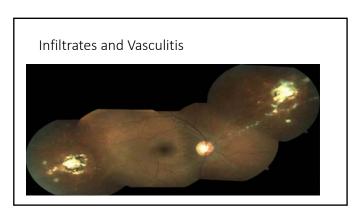


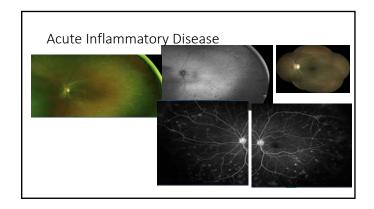
Peripheral Retina in Inflammatory and Infectious Disease

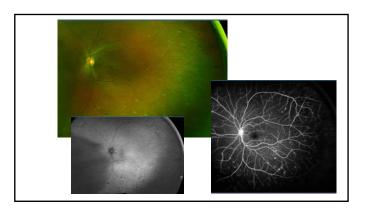


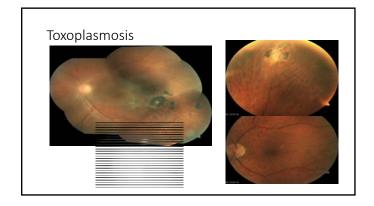


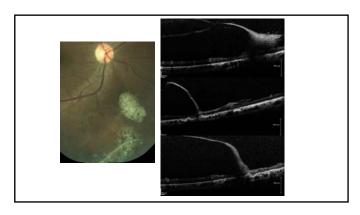


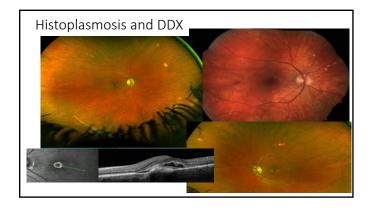




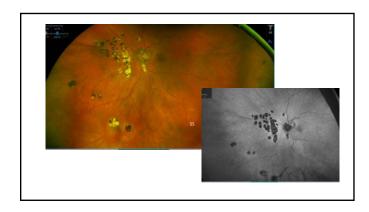


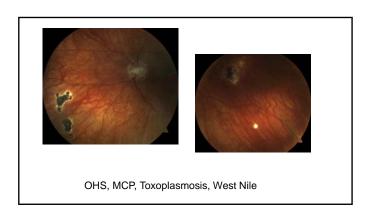




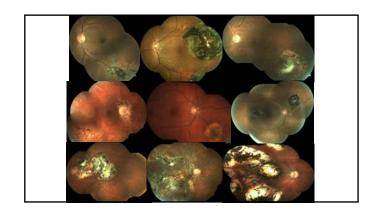


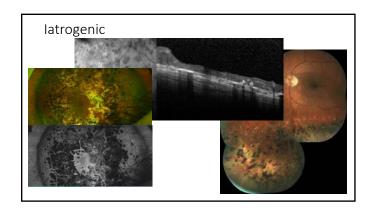


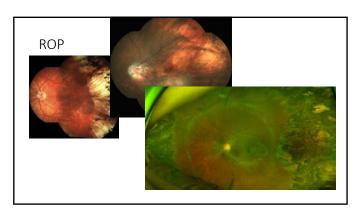


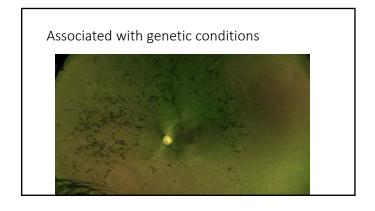


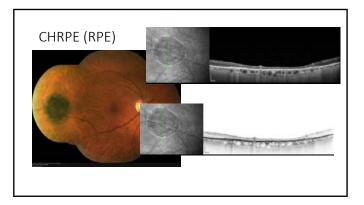
Peripheral Pigmented Lesions

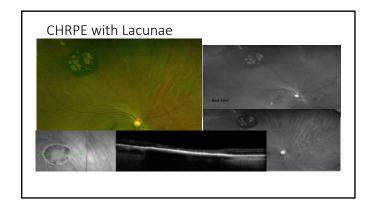


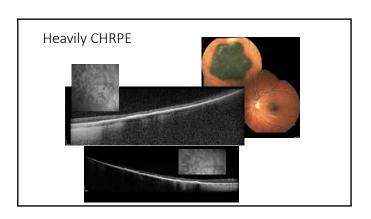


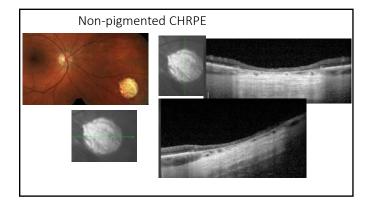


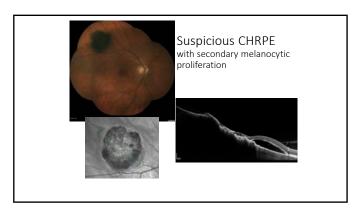


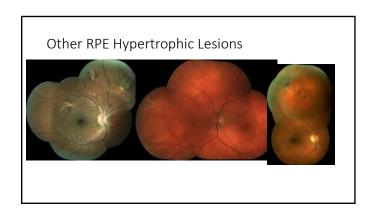


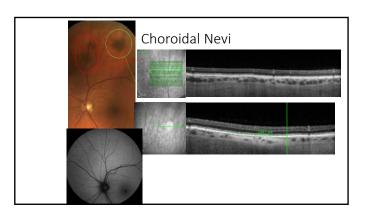


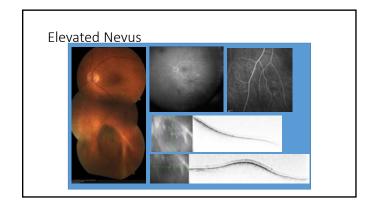


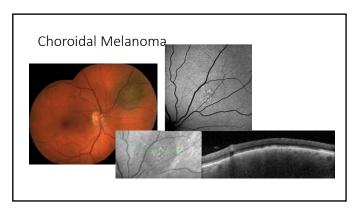


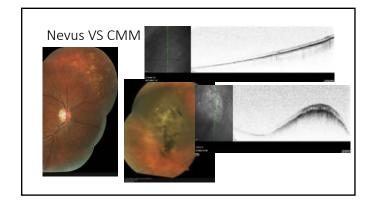




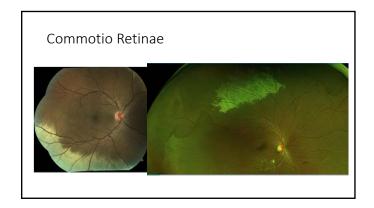


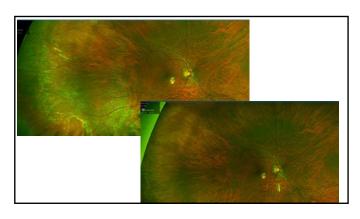


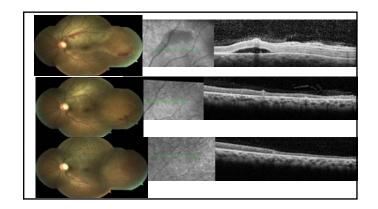


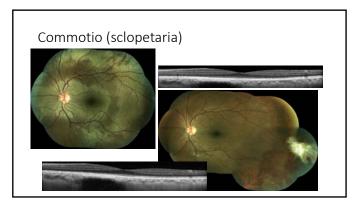


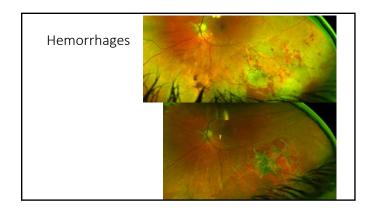
Peripheral Retina In an Injured Eye

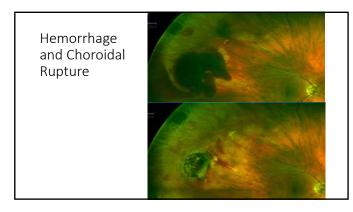


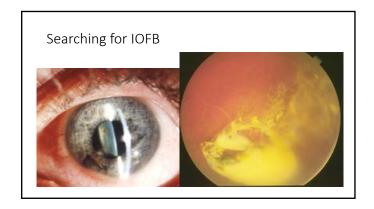


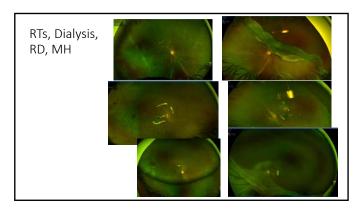


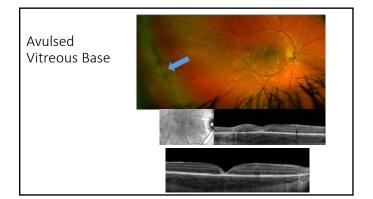


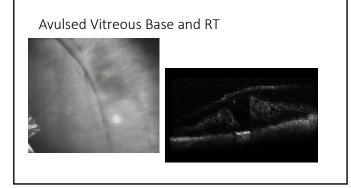












## Conclusion

- Importance of examination of peripheral retina for variety of conditions
- Thank you