

- Classification of AMD can be helpful to determine a risk stratification of each patient. AMD is routinely divided into 2 forms:
- 1. Non-neovascular (atrophic, dry)
- 2. Neovascular (exudative, wet)



- Dry AMD include the presence of drusen, retinal pigment epithelium (RPE) clumping, areas of RPE hypopigmentation, and, in the more advanced stage, geographic atrophy (GA)
- Wet AMD is characterized by the presence of choroidal neovascularization (CNV) in the macula, which may lead to hemorrhage, fluid and/or exudate accumulation, and disciform scarring in the late stage.



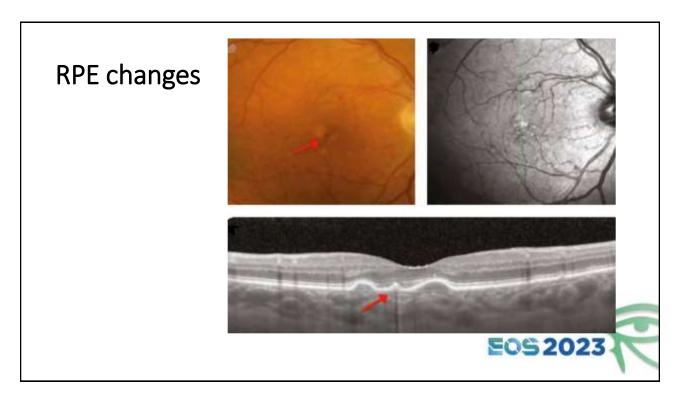
Dry AMD

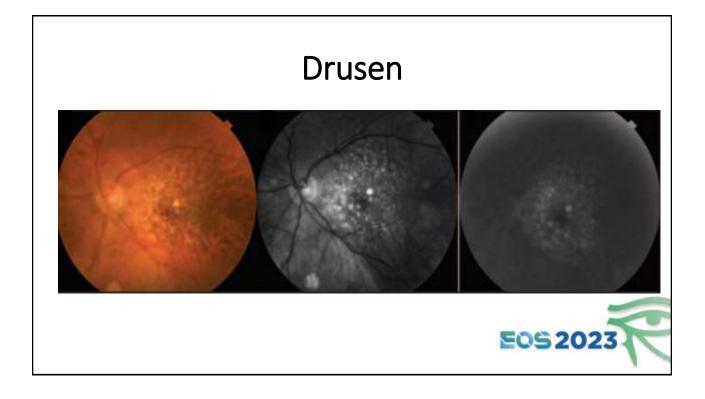
- 1- RPE changes
- 2- Hard Drusen
- 3- Soft Drusen
- 4- Reticular Drusen
- 5- Cuticular Drusen
- 6- Calcified regressing or refractile drusen
- 7- Ghost drusen

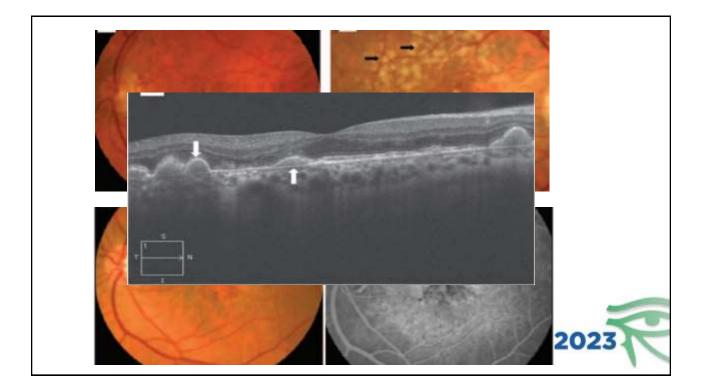


E05202

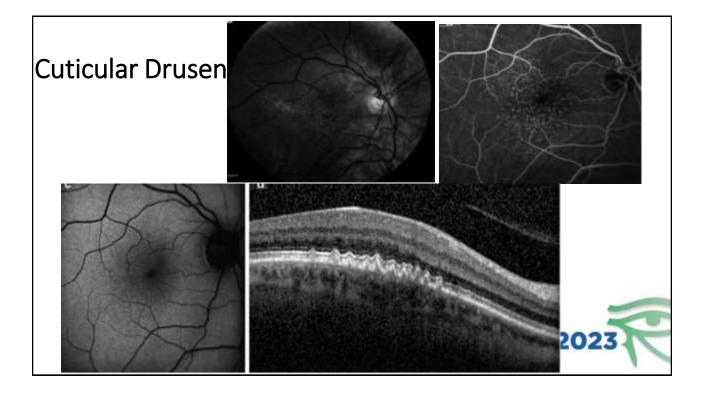
- In patients with dry AMD, characteristics identified on examination can help predict the risk of progression of AMD.
- A higher risk of progression is associated with
- 1- A larger number of drusen (> 5)
- 2- larger-sized drusen (> 63 μm)
- 3- Soft, indistinct, and/or confluent drusen
- 4- Pigment abnormalities; and/or the presence of advanced AMD (GA or CNV) in the fellow eye.

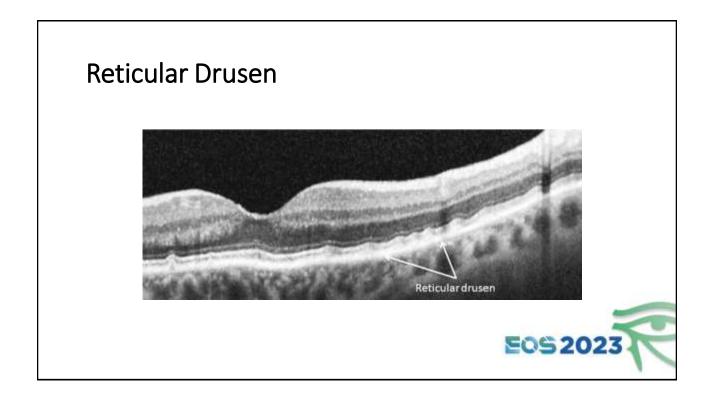


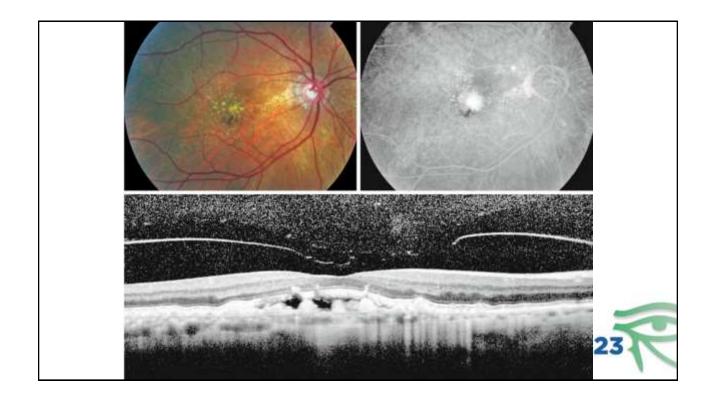


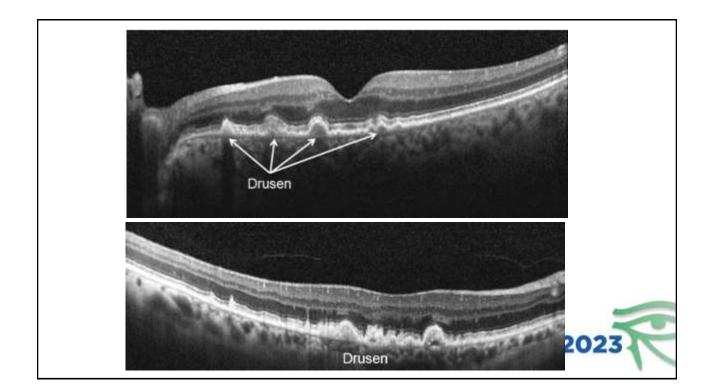


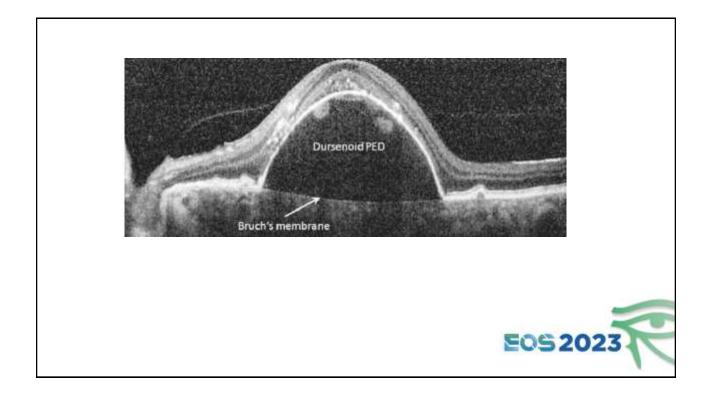


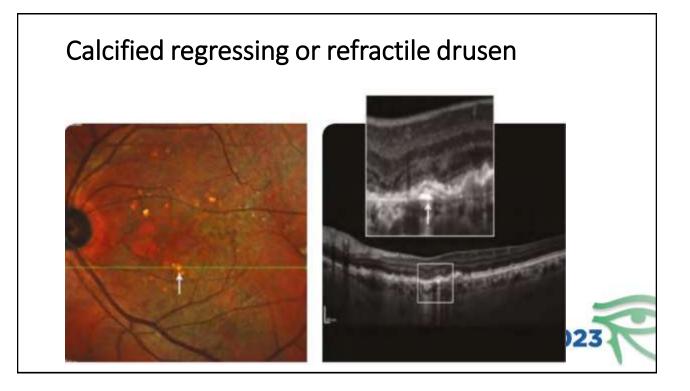












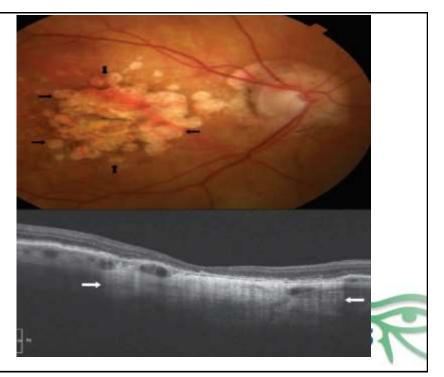
Geographic atrophy

A new classification based on the OCT findings:

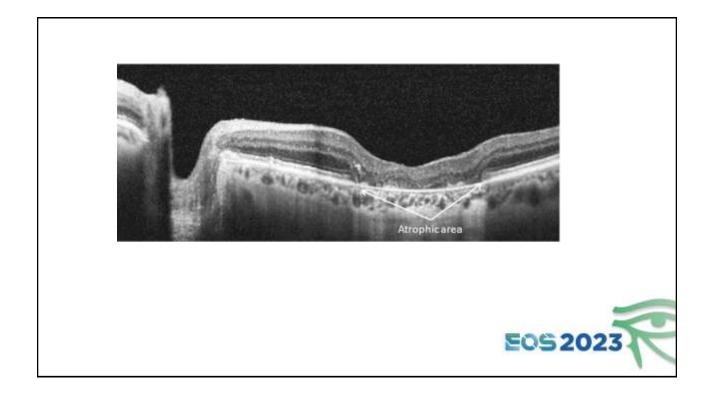
c-RORA (complete RPE and Outer Retinal Atrophy)i-RORA (incomplete RPE and Outer Retinal Atrophy)c-ORA (complete Outer Retinal Atrophy)i-ORA (incomplete Outer Retinal Atrophy).

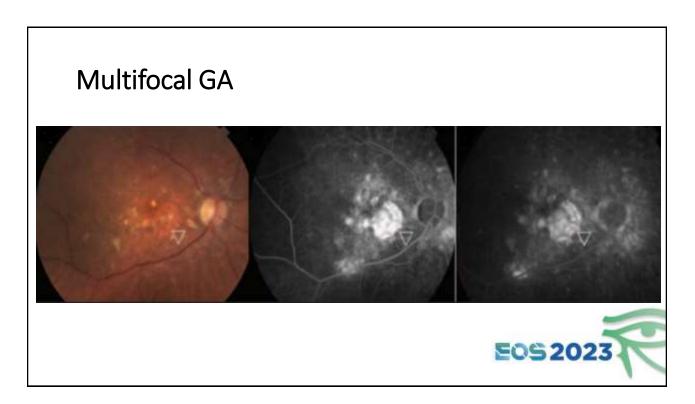


Atrophic AMD with GA

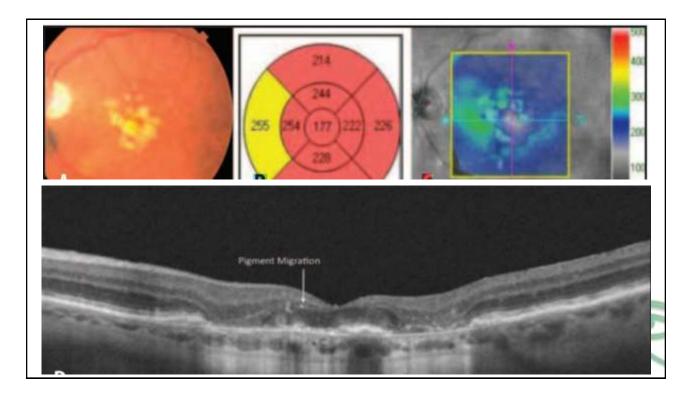




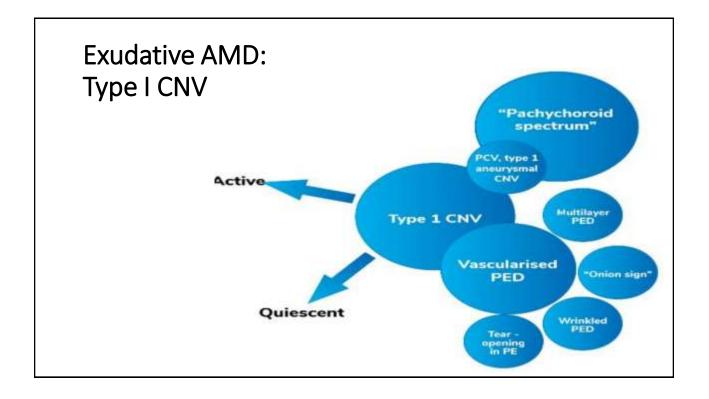




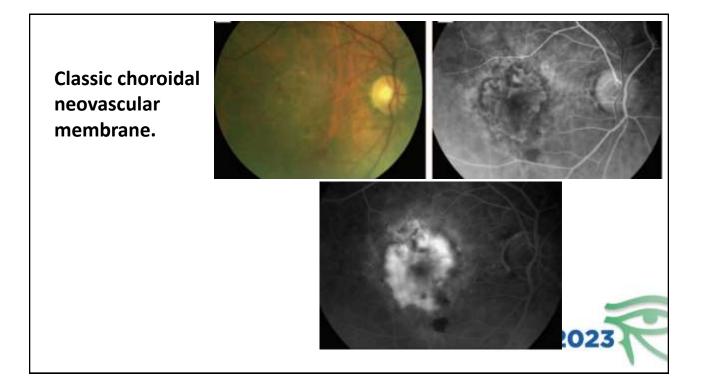


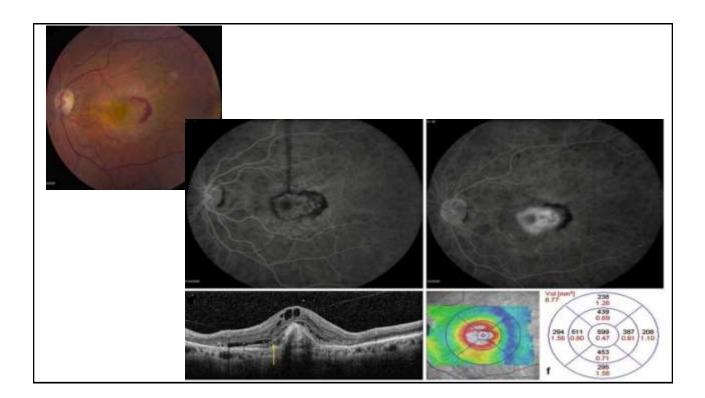


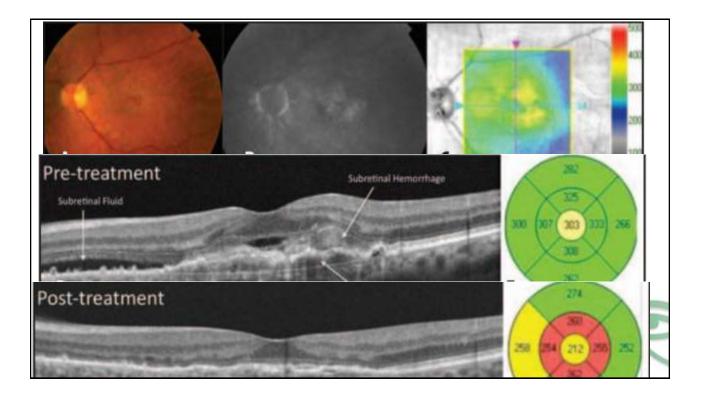
<section-header>

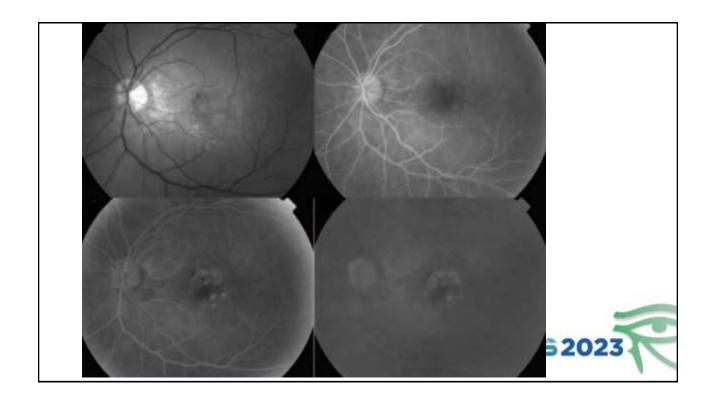


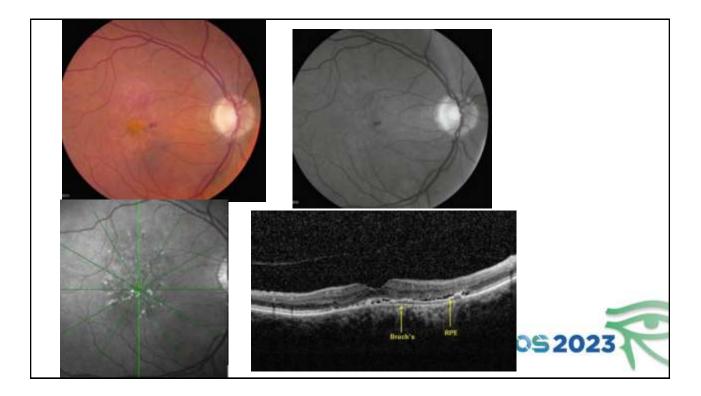
Quiescent: Type 1 choroidal neovascularisation

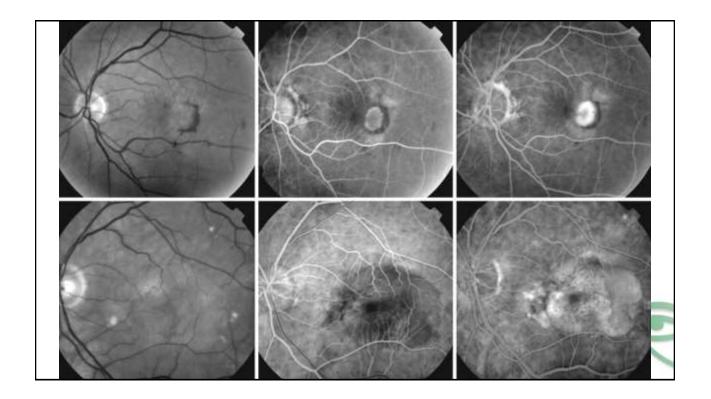


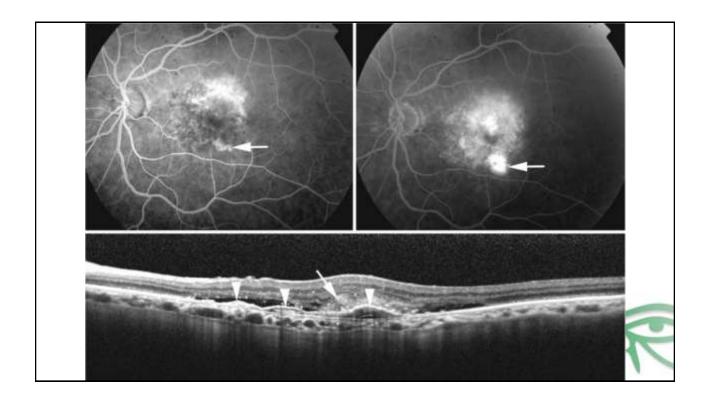








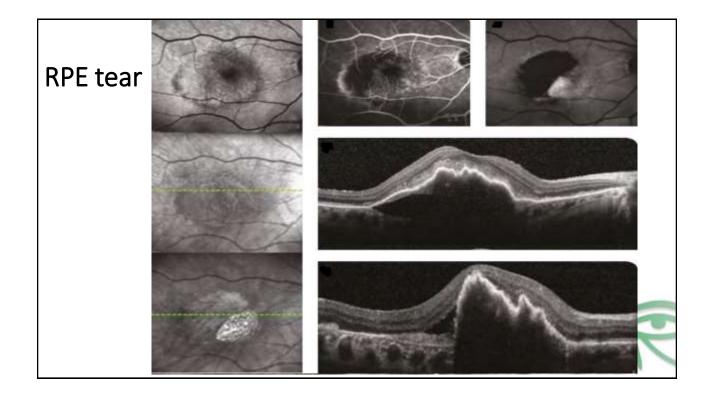


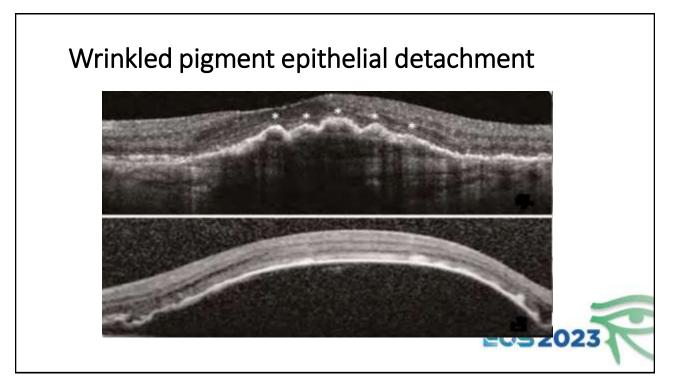


Retinal pigment epithelial tears

- In 2010, David Sarraf et al. proposed a new four-level grading system for RPE tears:
- Grade 1: RPE tear of less than 200 μm
- Grade 2: Tear of between 200 μm and 1 disc diameter
- Grade 3: Tear greater than 1 disc diameter
- Grade 4: Grade 3 involving the fovea.





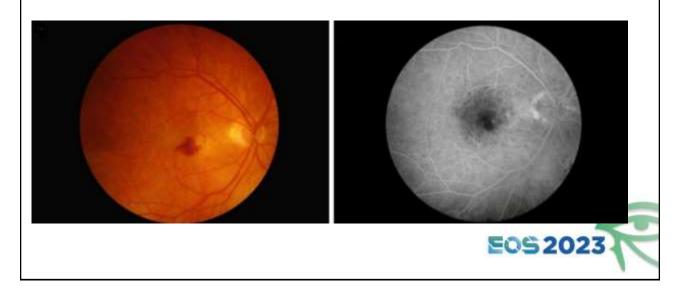


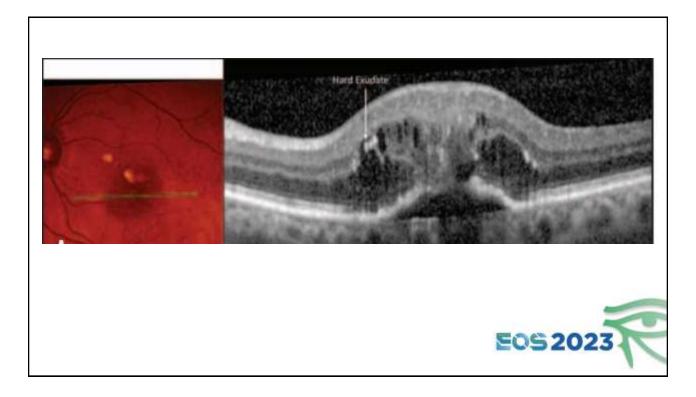
Type 3 neovascularization

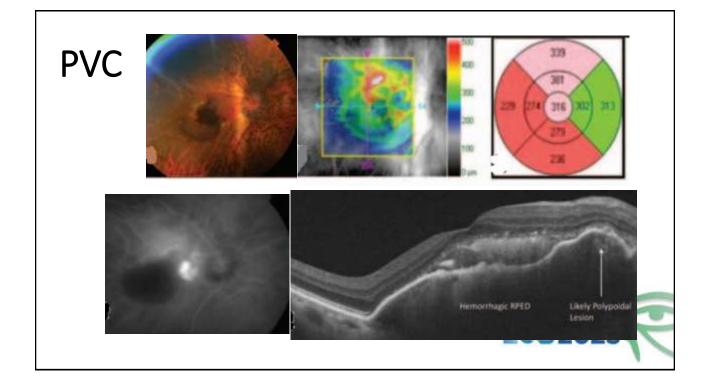
- Type 3 neovascularisation is a clinical form of neovascular AMD that preferentially affects the neurosensory retina and causes a compensatory telangiectatic neovascular response, associated with intraretinal proliferation
- OCTA has confirmed the intraretinal origin of this neovascular lesion, which differs from type 1 and type 2 neovascularisation in that it originates in the deep capillary plexus

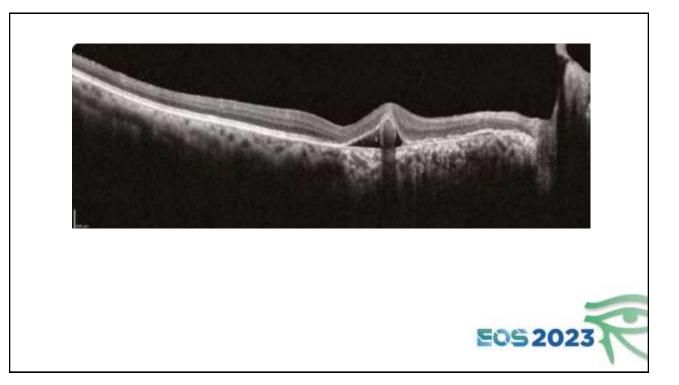


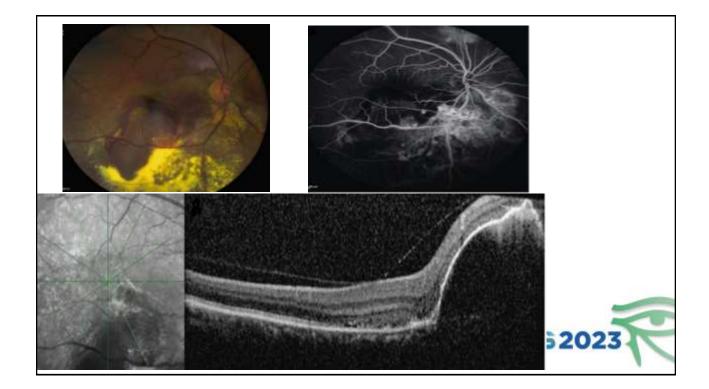
Retinal Angiomatous Proliferation











Conclusion

- Screening for Dry AMD is an essential part of any eye examination in patients aged
 55 years and over, based on dilated fundus examination or color fundus photography.
- There are several types of drusen that carry a risk of progression to late AMD.
- The risk of neovascular complication is very **low** with **hard drusen**. However, **soft** drusen are **more likely to develop into choroidal neovascularization**.
- OCT is an essential examination for confirming a diagnosis of AMD and ruling out neovascular activity.
- If progression to exudative AMD is suspected, FA becomes less useful, as OCTA can be carried out to provide valuable information on the whether neovascularization is present



