

Surgical Approach to **massive** **subretinal hemorrhages** secondary to neovascular ARMD

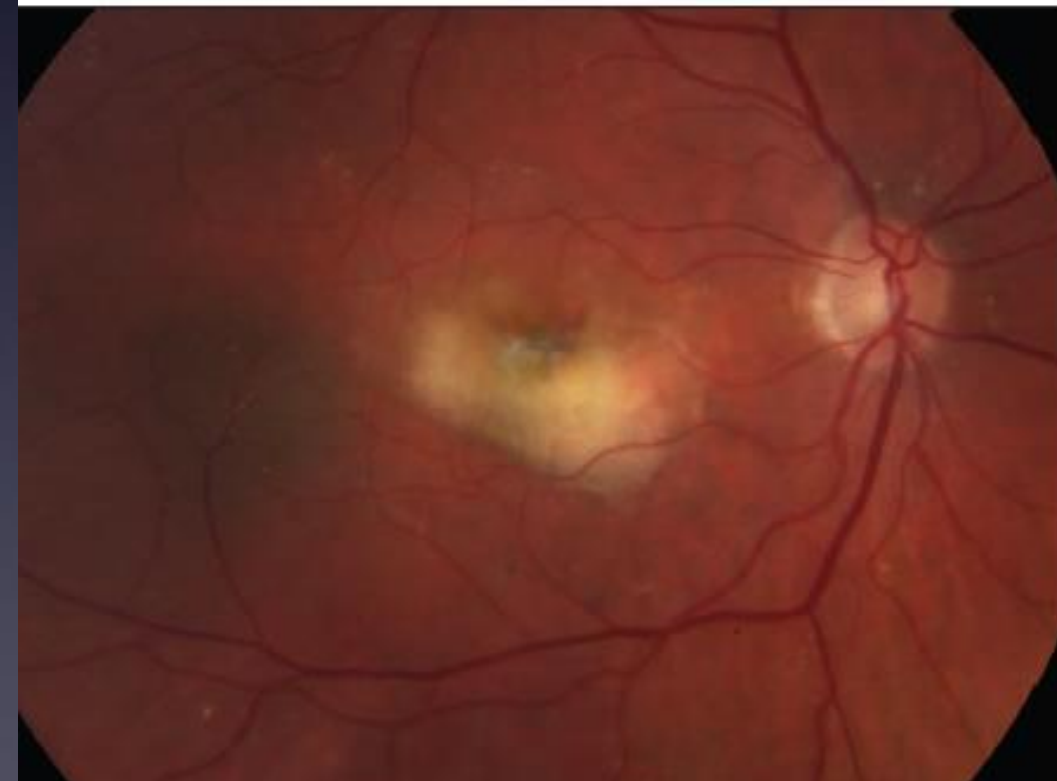
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GAZİ UNIVERSITY SCHOOL OF MEDICINE



Causes of Submacular Hemorrhage

- exudative age-related macular degeneration,
- macroaneurysms,
- polypoidal choroidal vasculopathy,
- trauma

- **Poor visual prognosis if left untreated**
- mechanical damage to the PR by fibrin infiltration between the IS and OS of PRdestructive shearing of the cells.
- iron and hemosiderin (hemolysis): direct toxic effects on PR.
- If the subretinal clot is too thick, diffusion of nutrients from the choroid to the PR can be impaired.



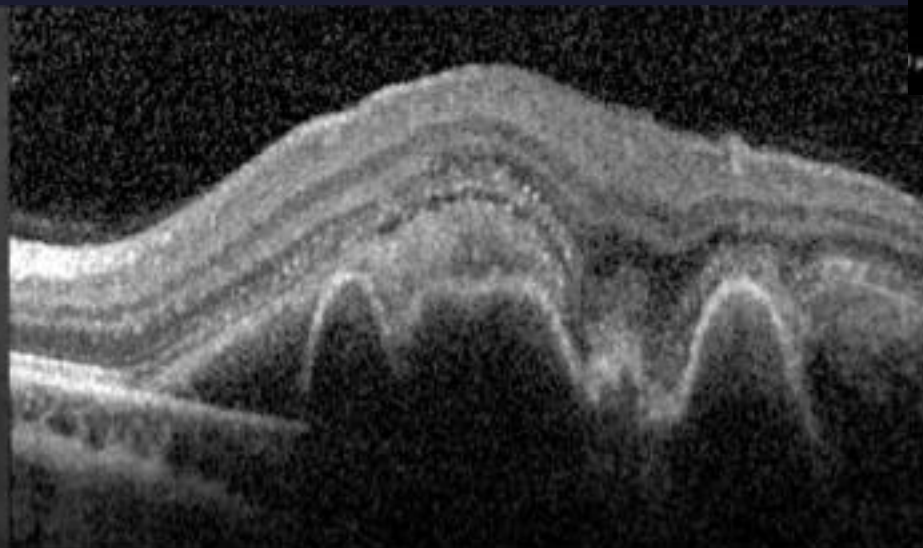
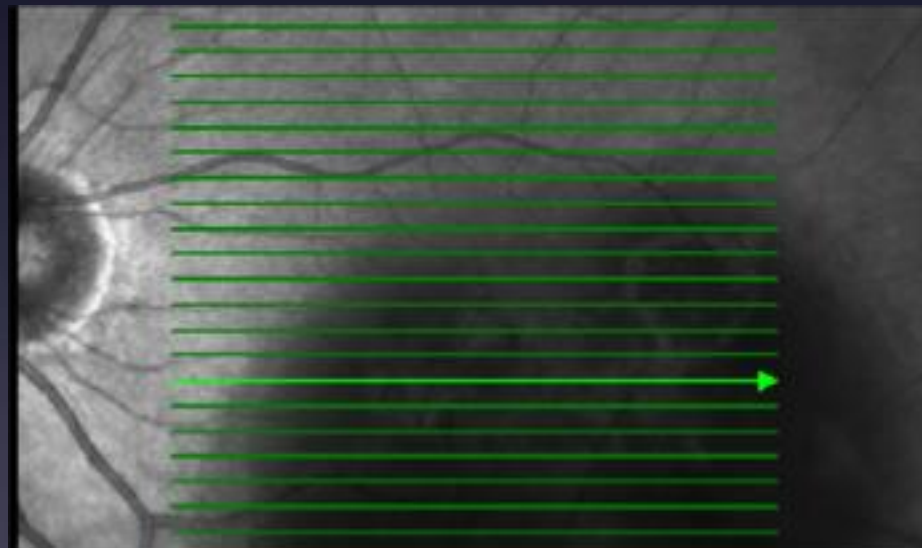
Approach to patient

- Decisions must be made on a case-by-case basis.
- If the hemorrhage $>50\%$ of the lesion
- If it affects fovea
- Within 2 weeks

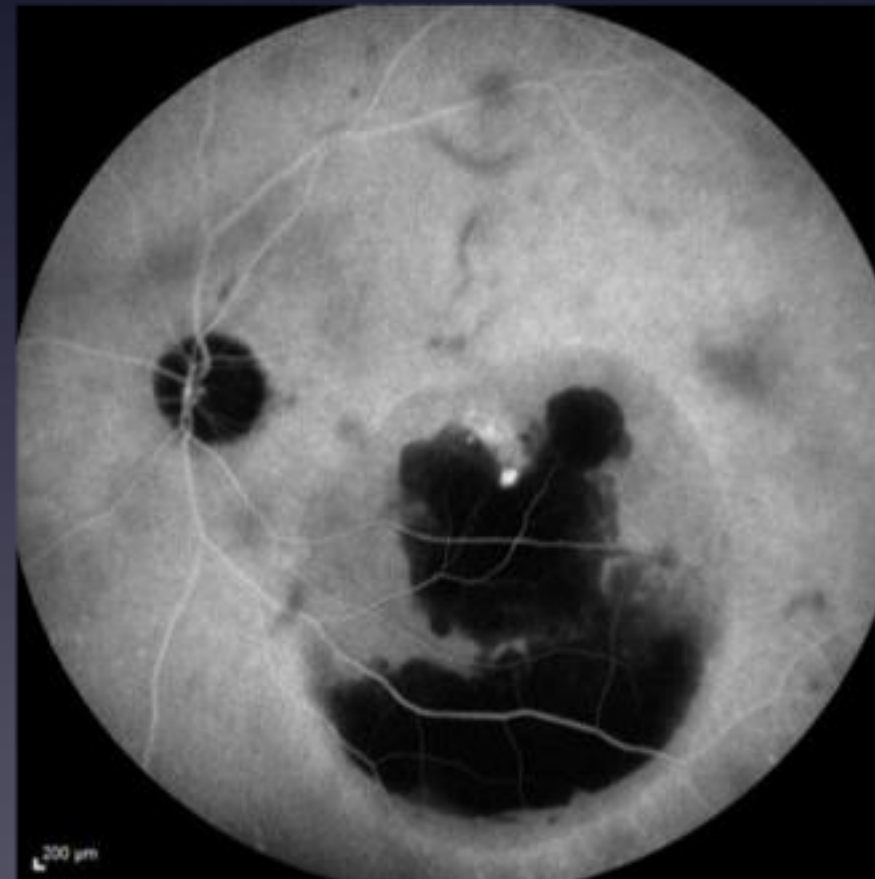
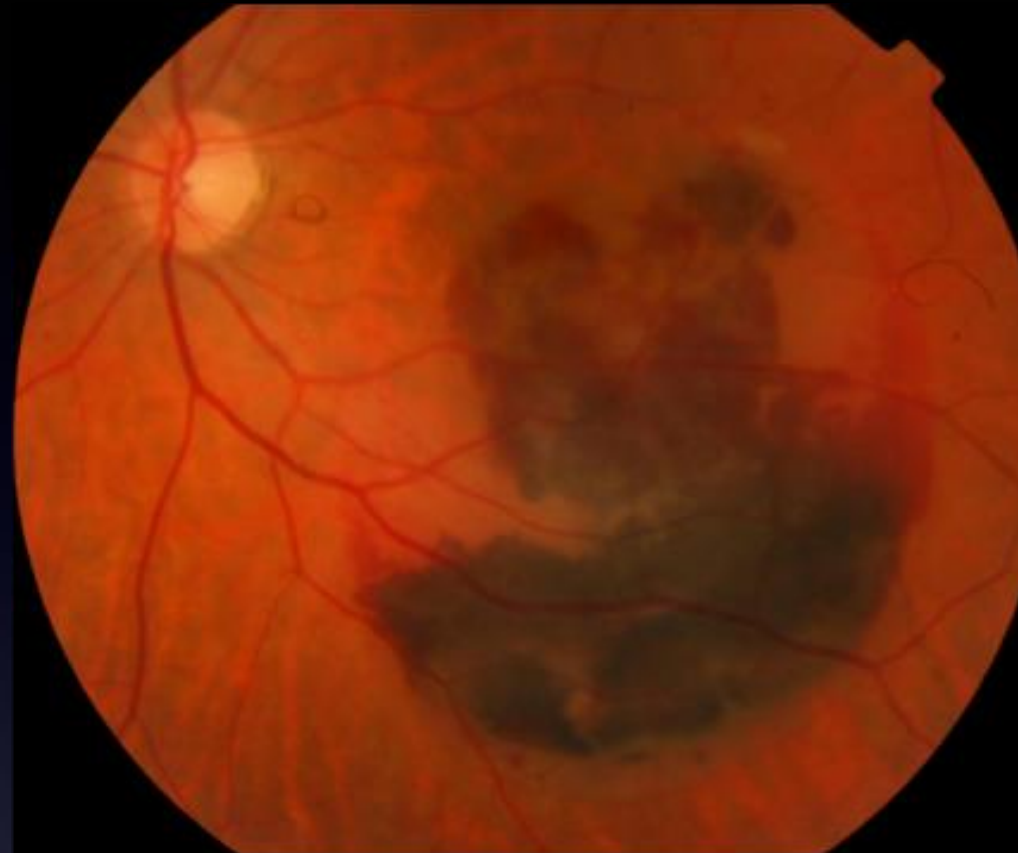
Treatment Options for Submacular Hemorrhage

- Anti-VEGF
- IV Gas +/- tPA, face down
- PPV+Subretinal tPA +Gas
- or....
- Macular translocation
- Choroidal patch graft

47y old F, VA: CF 1m

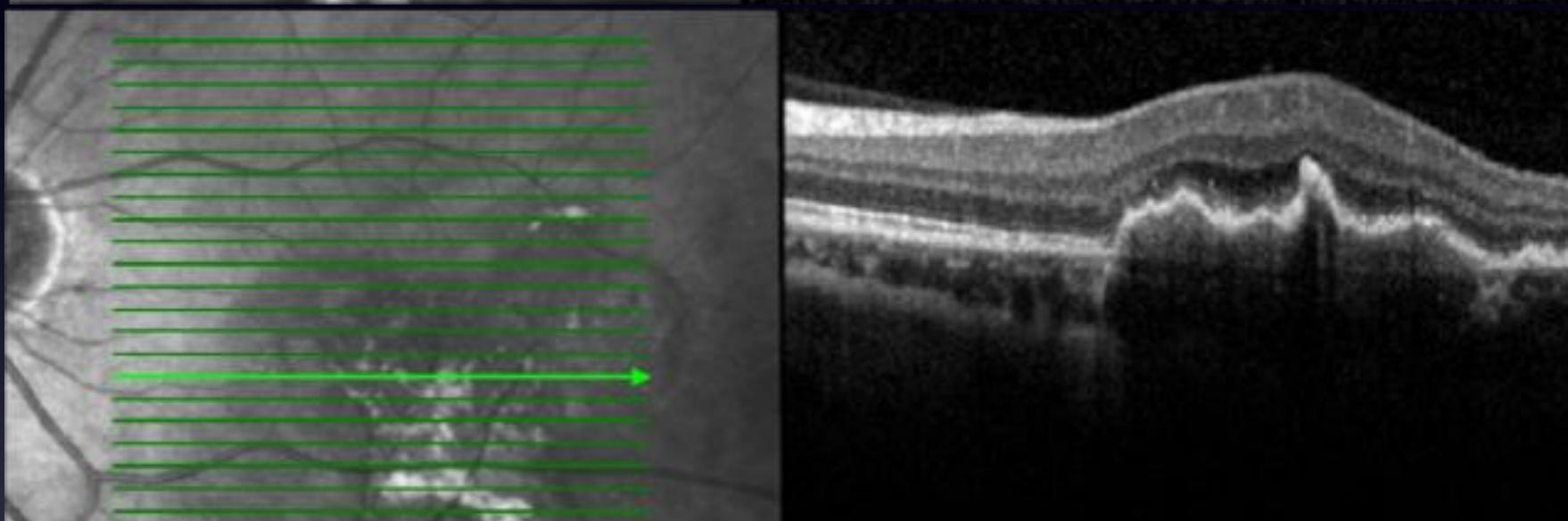
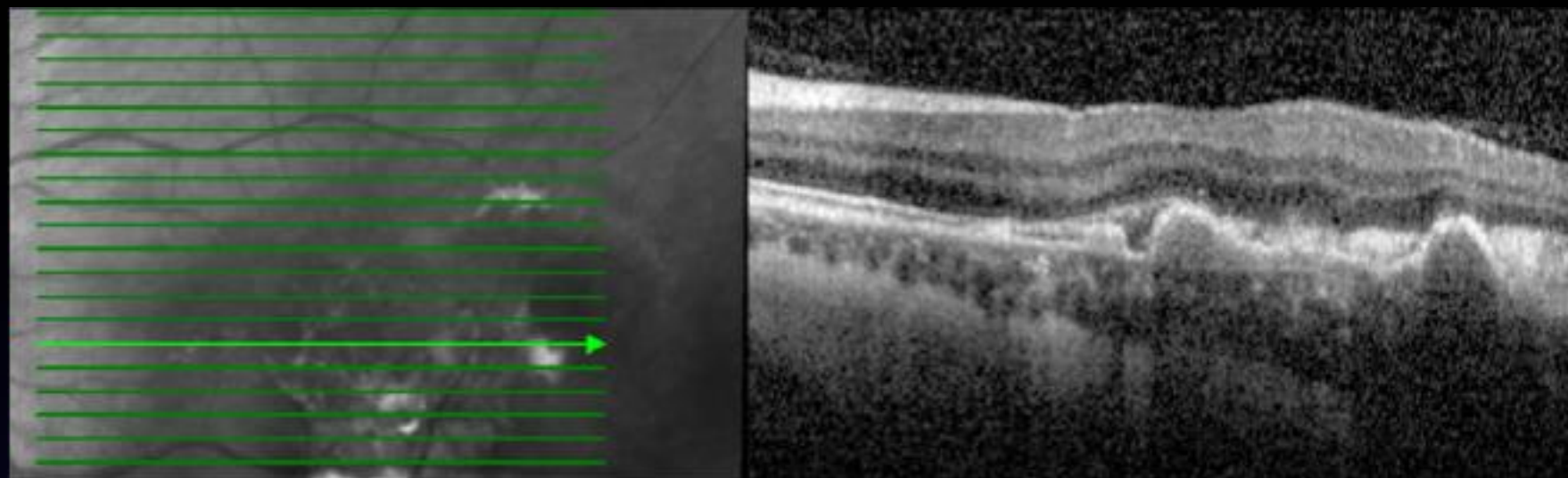


- IV SF6, Face Down, 3 days later: VA: 0.3

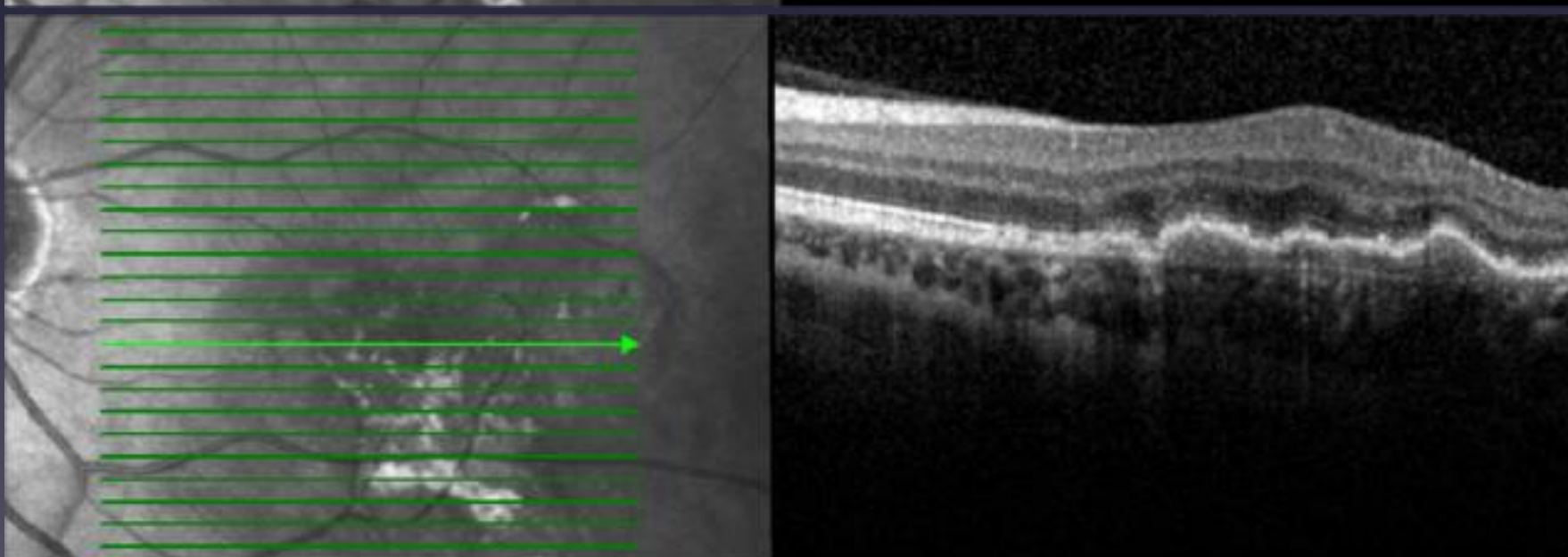


IV Anti-VEGF

a month after 1st anti-VEGF: VA: 0.5

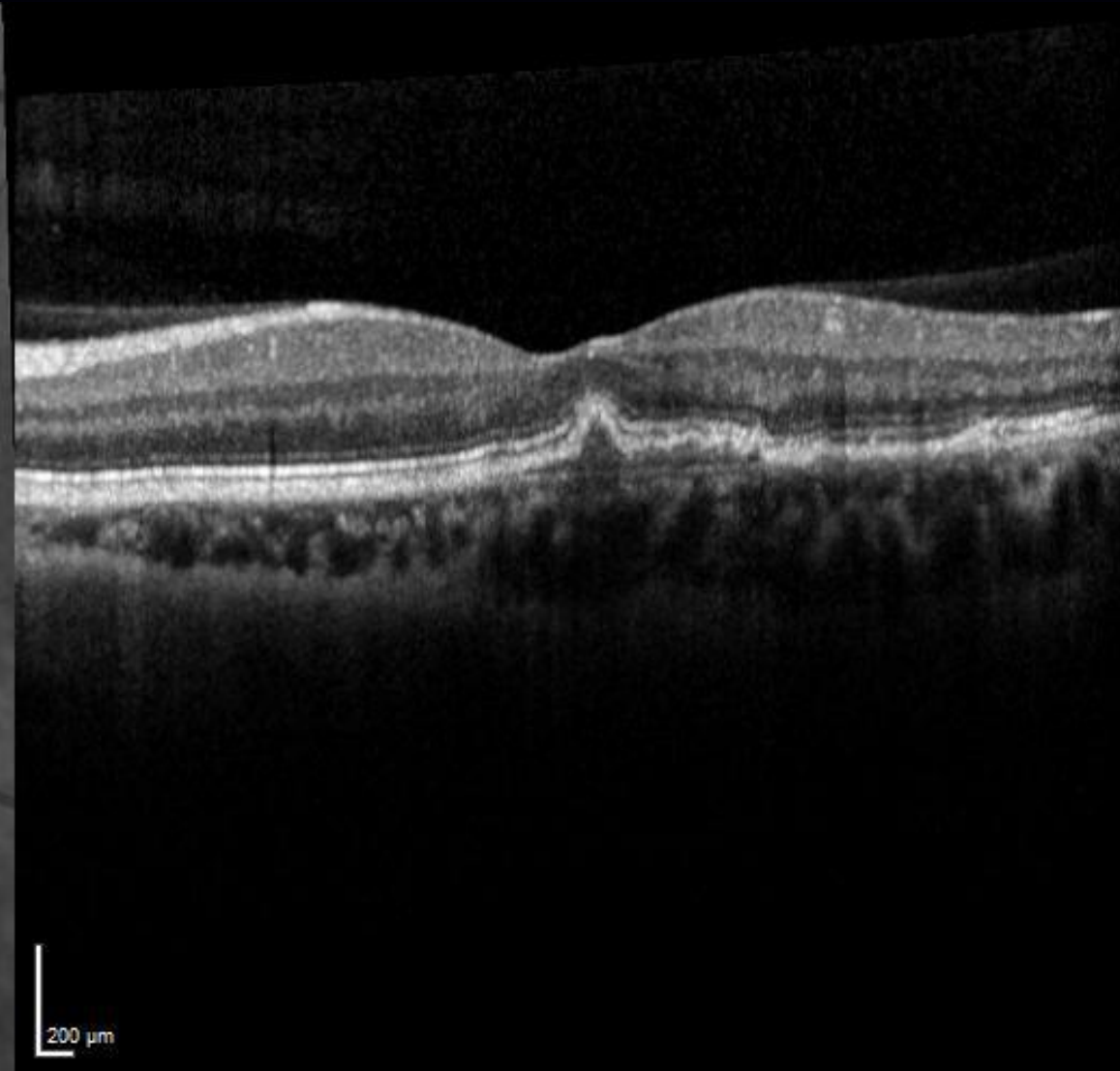


2nd IVR: 0.6



3rd IVR: 0.7

Last visit: VA: 0.8

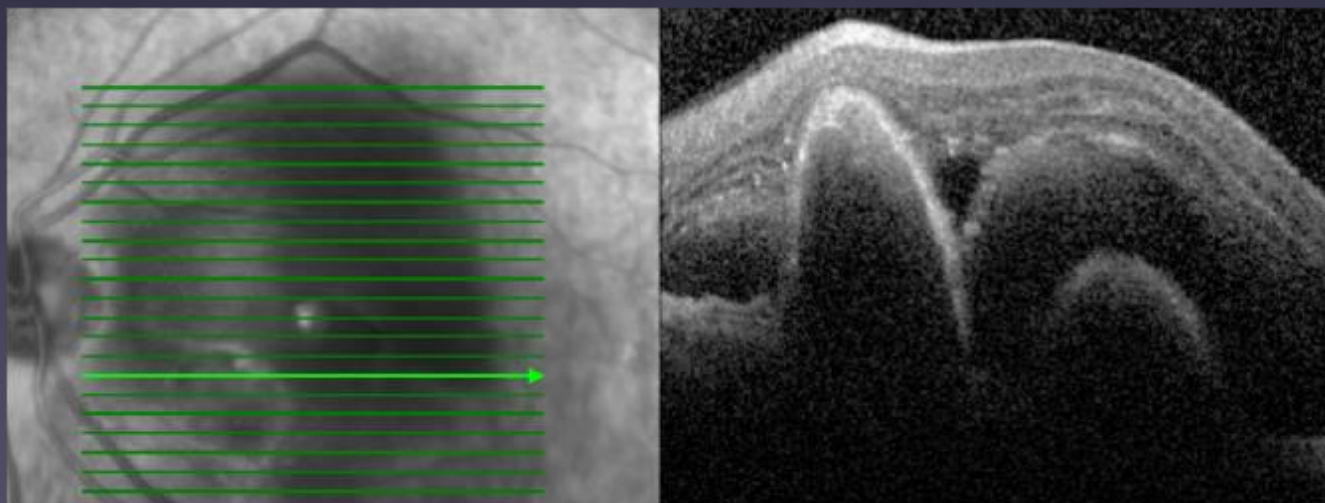
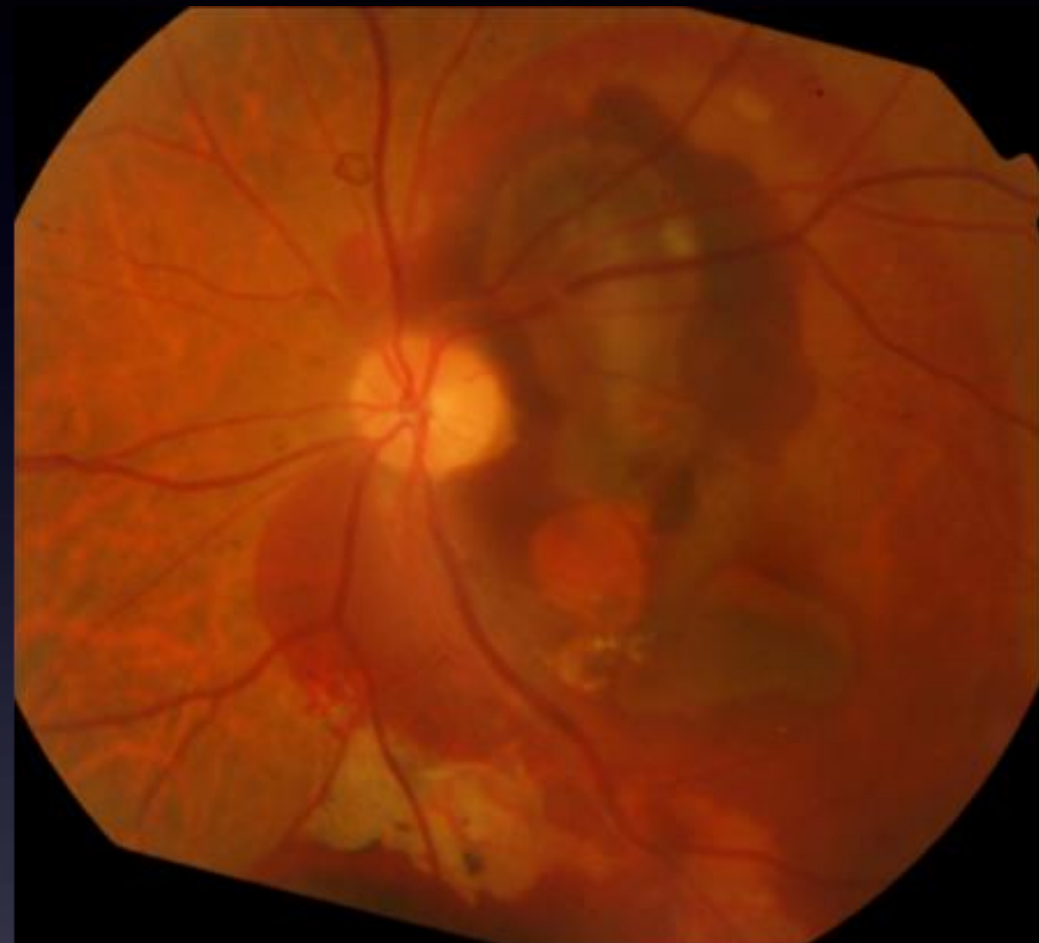
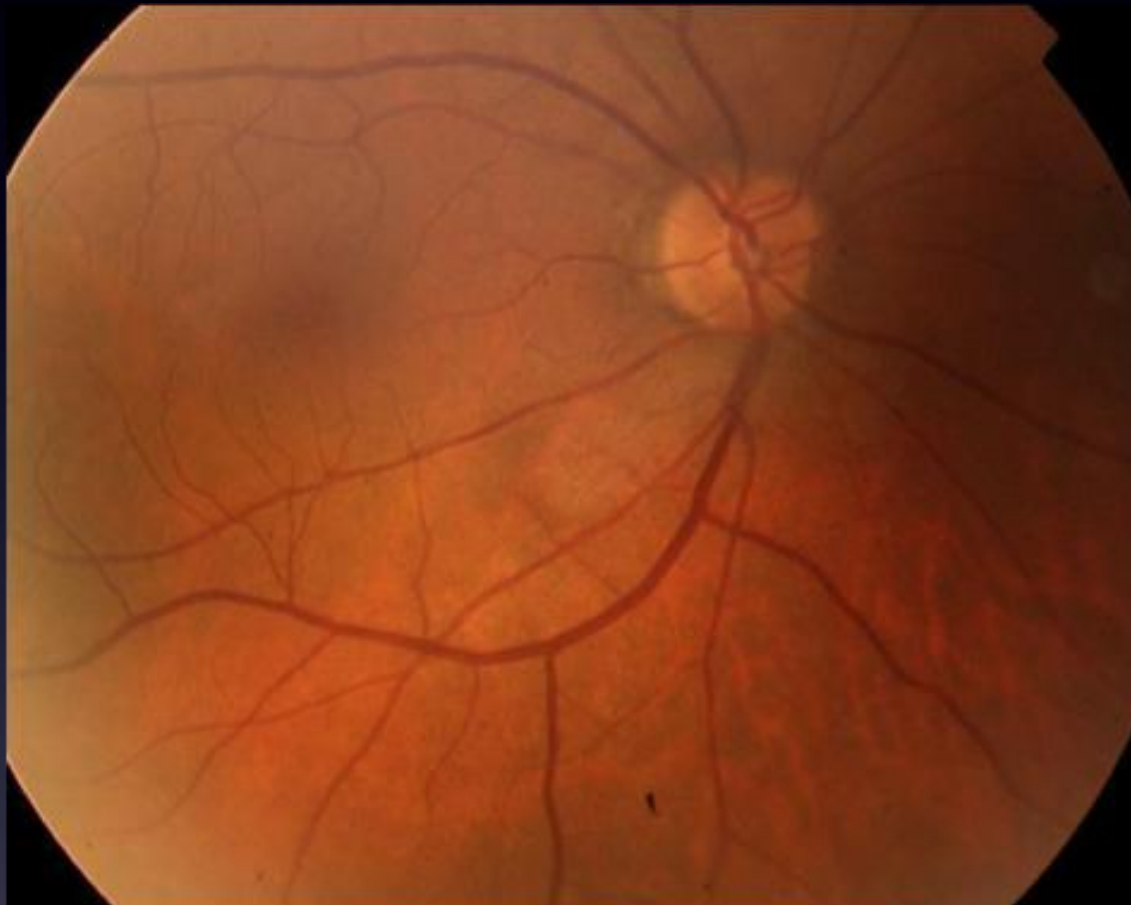


14.05.2013, OS

IR&OCT 30° ART [HS] ART(10) Q: 31

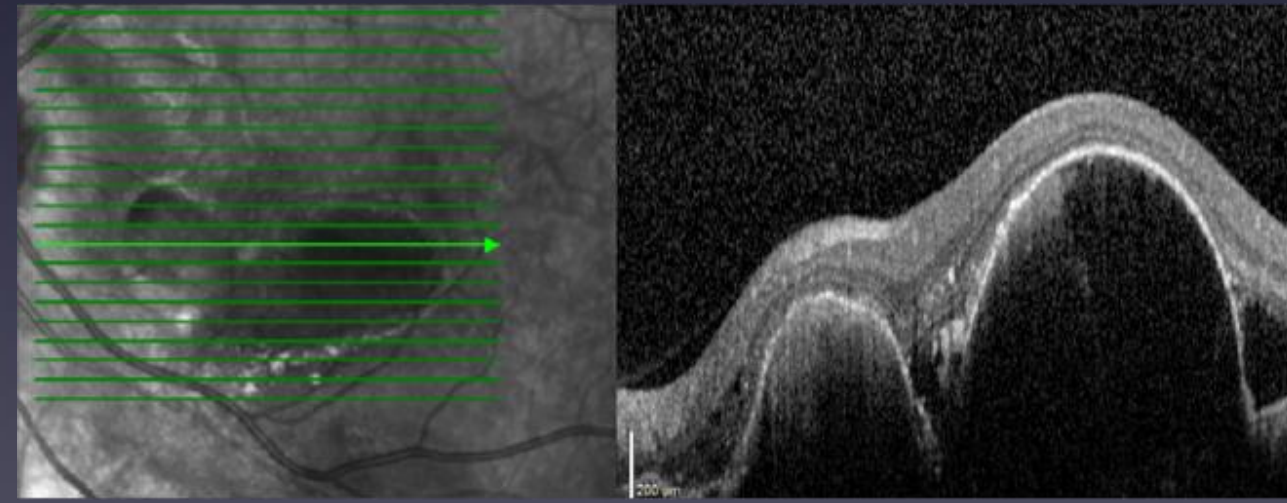
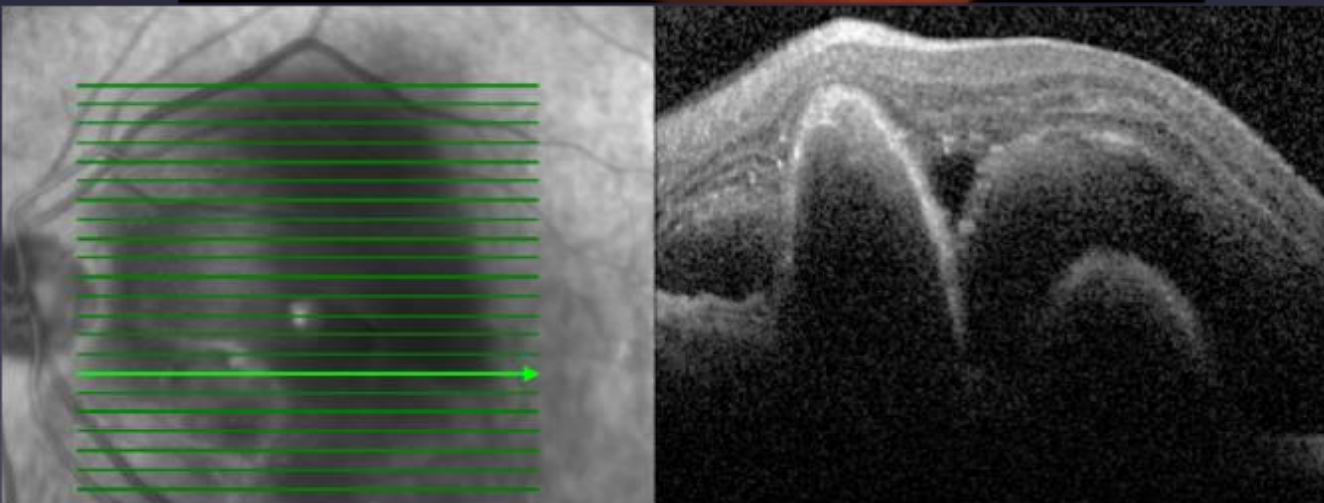
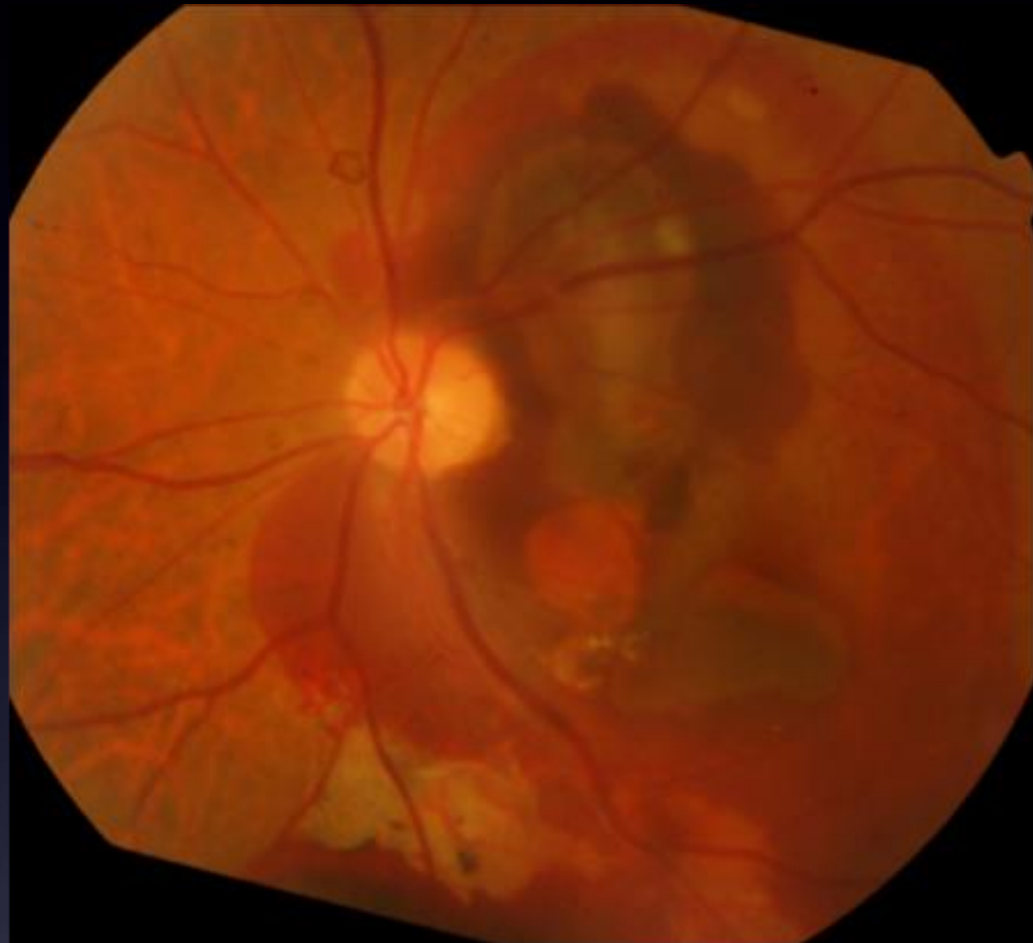
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64y old M, VA: CF 2m (L)



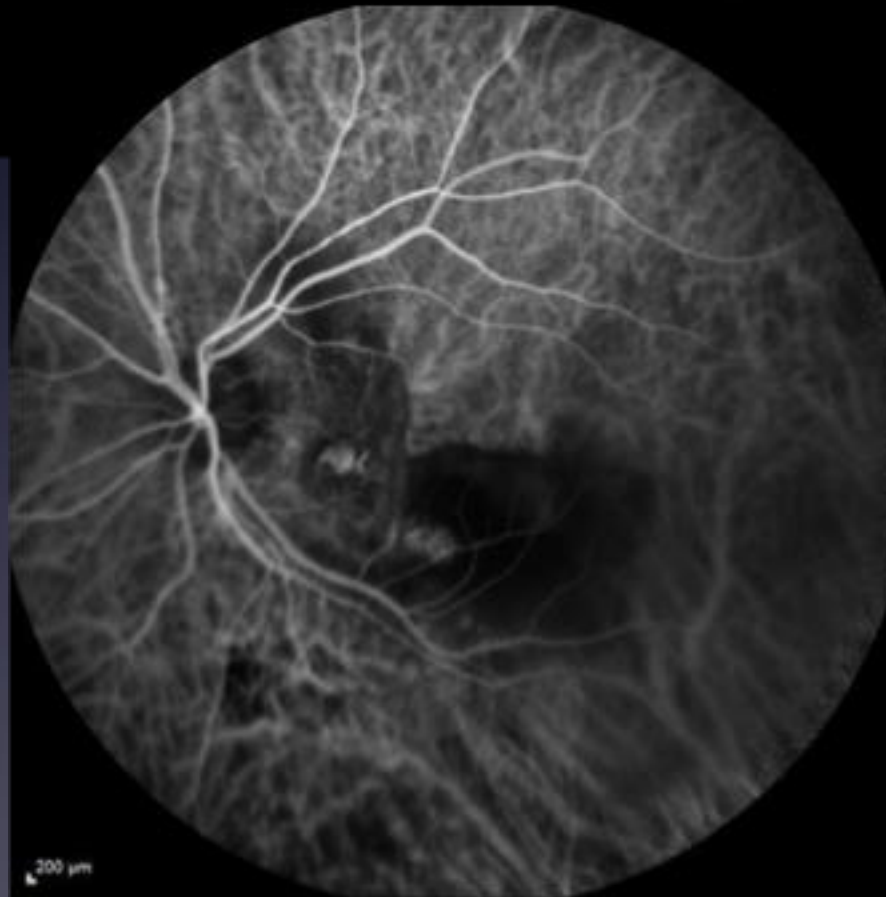
- SF6 Gas + IV tPA

VA: 0.2 (5 days later)





02.01.2013, OS
FA 0:08.93 55° ART(6)

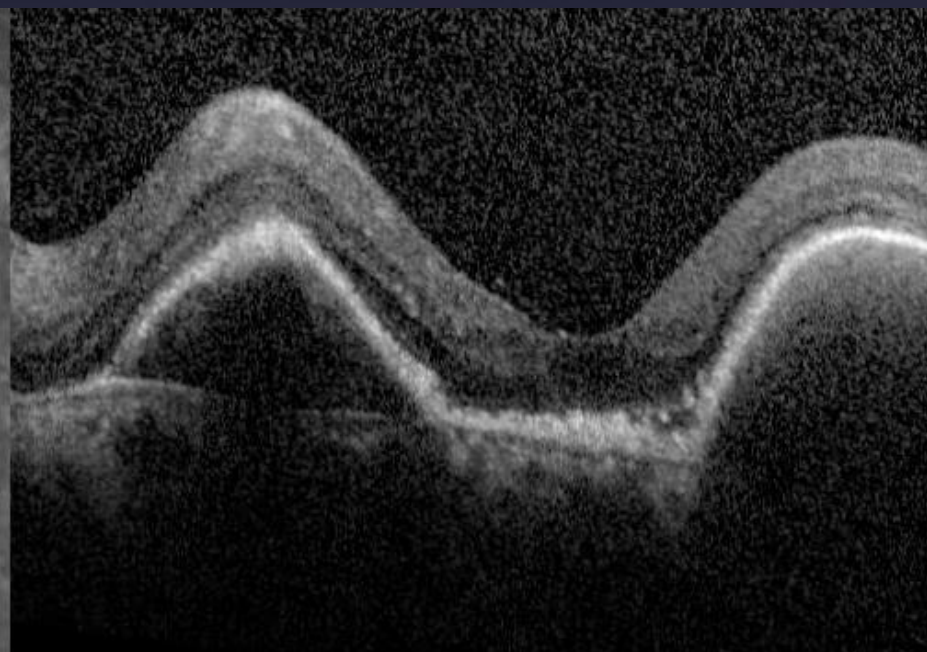
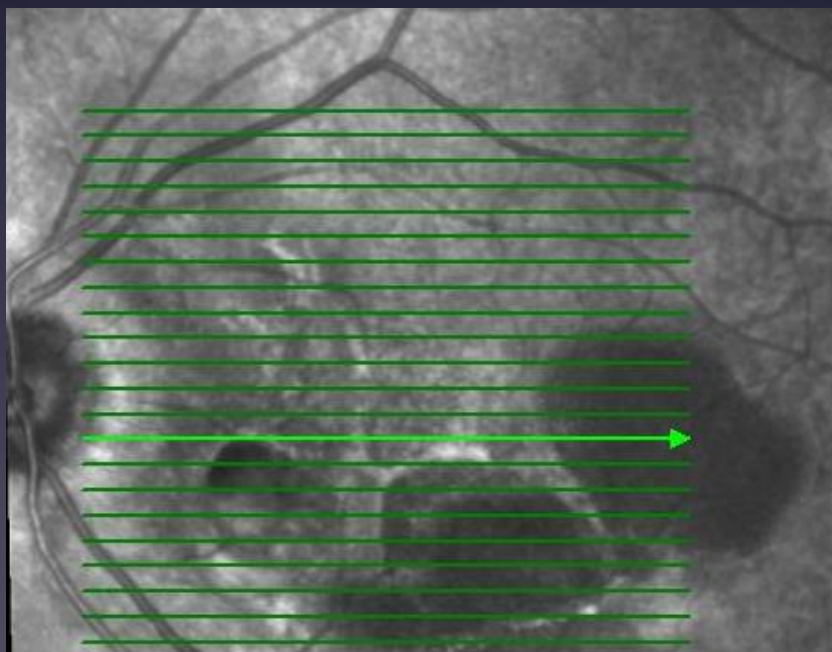
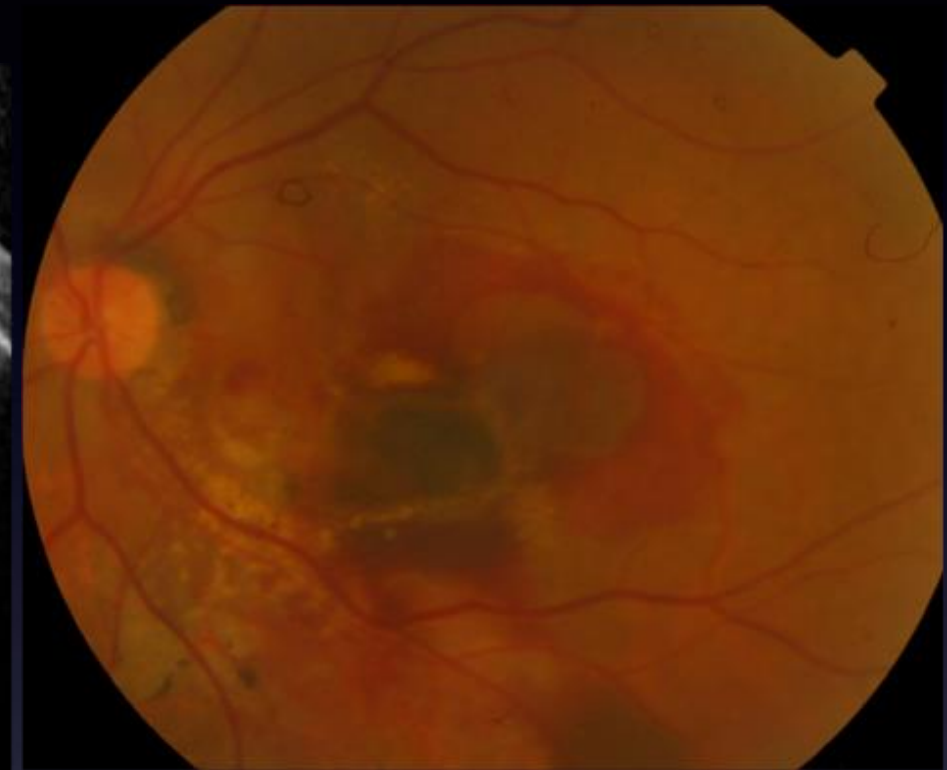
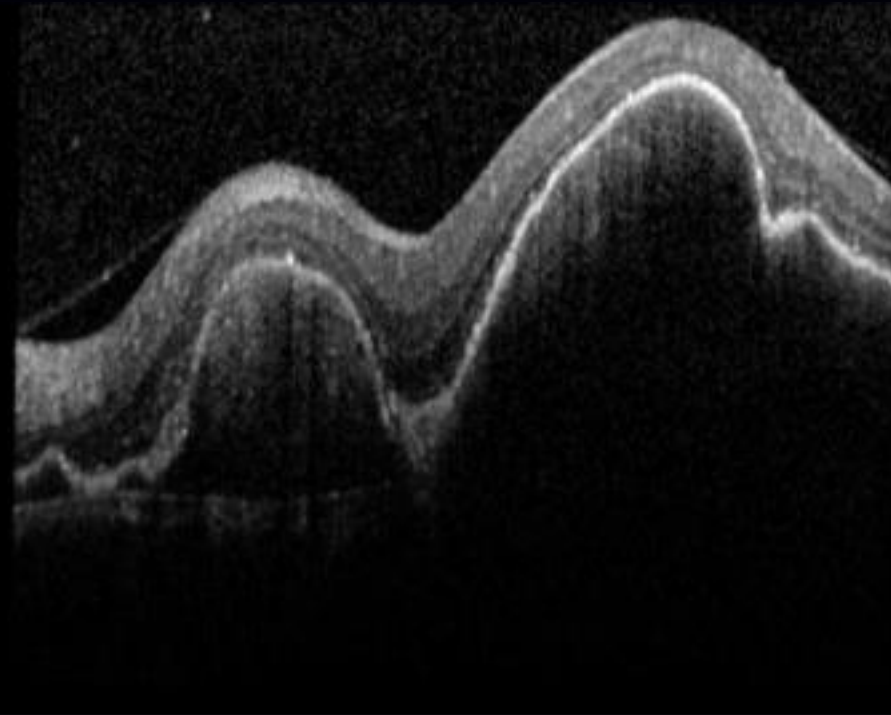
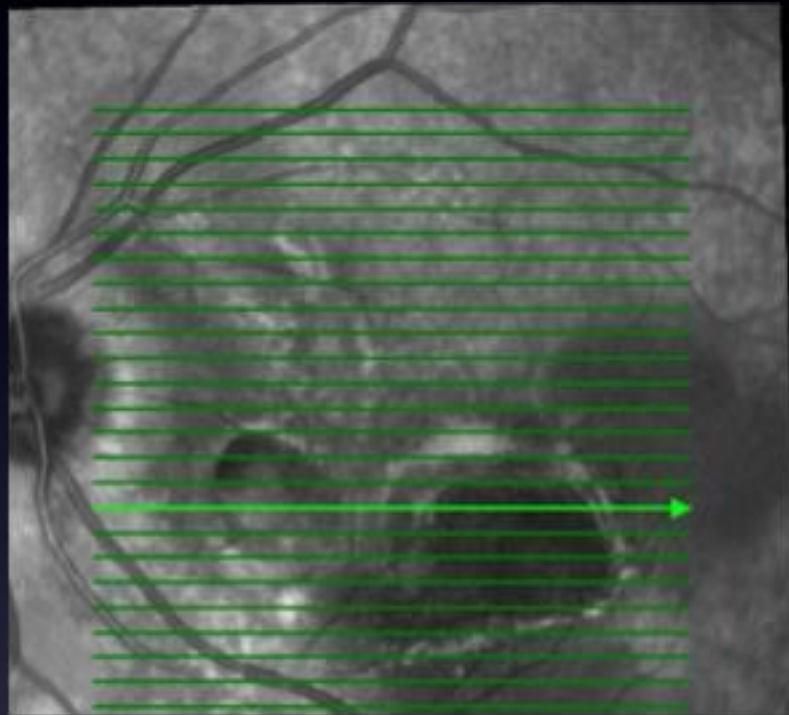


09.01.2013, OS
ICGA 0:26.72 55° ART(30)



09.01.2013, OS
ICGA 13:42.02 55° ART(8)

- 1x PDT + 2x anti-VEGF: VA: 0.4

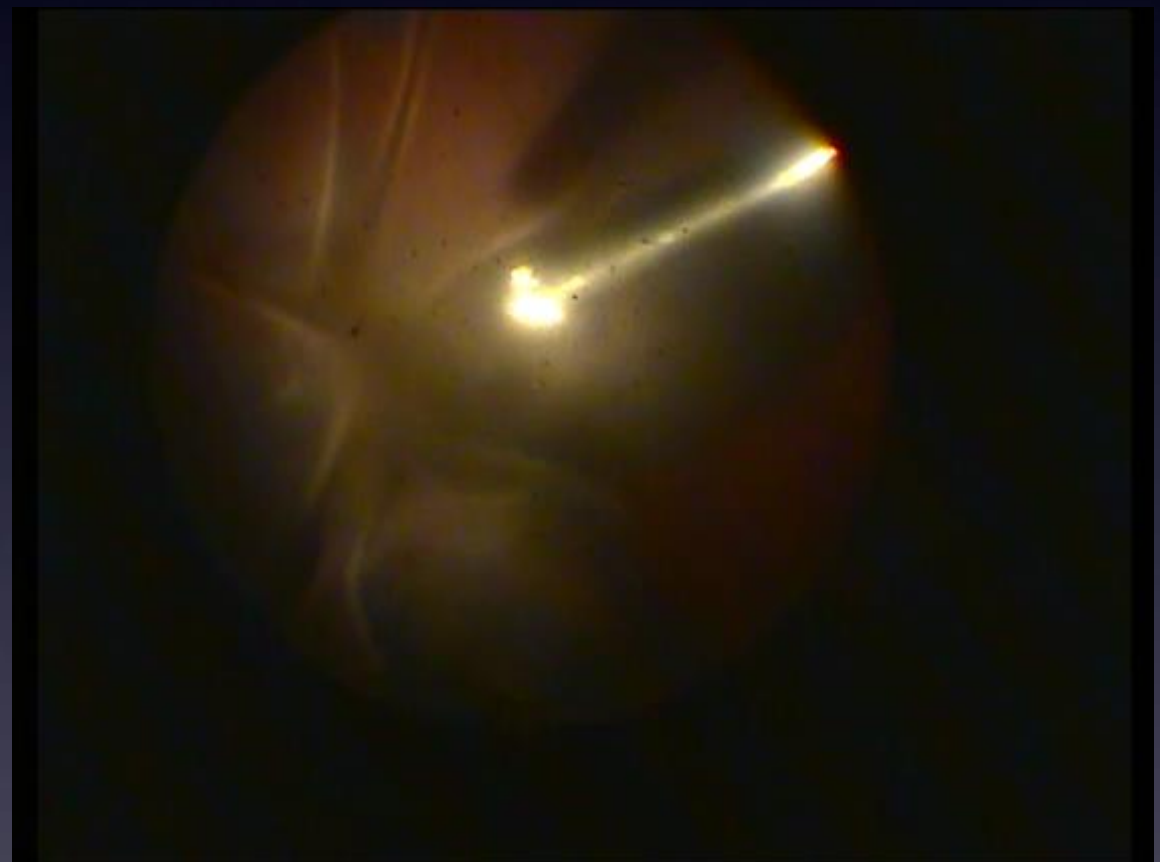
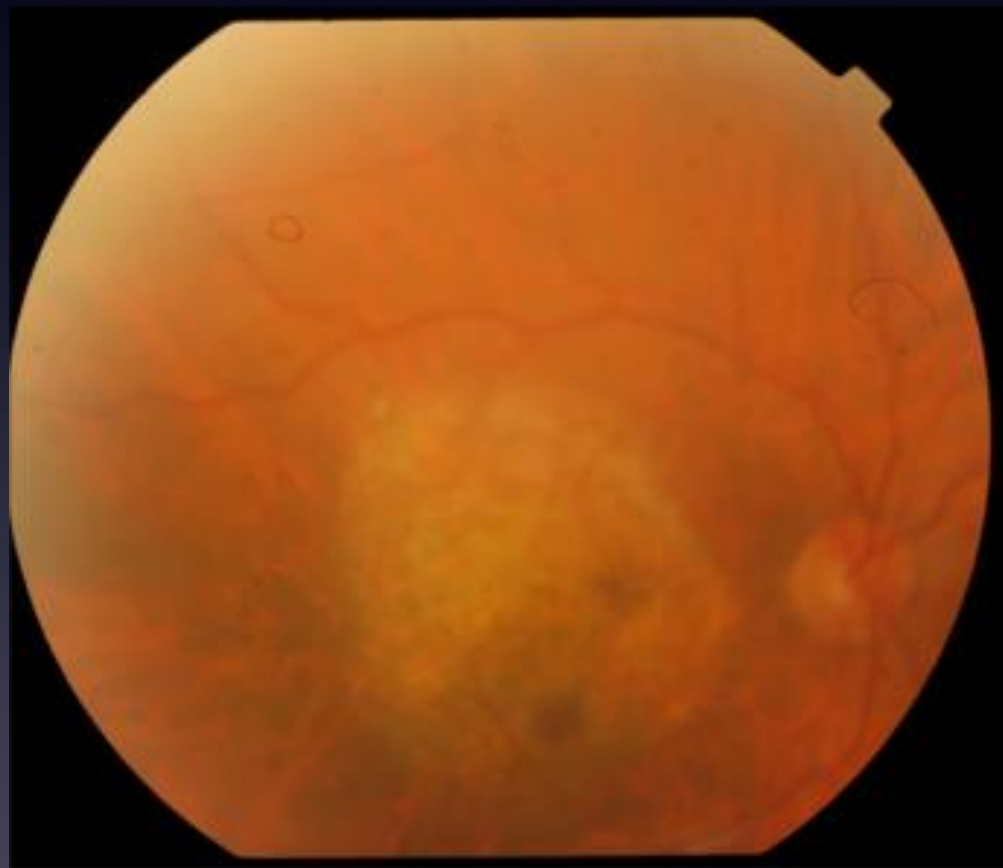


Last visit: VA: 0.4

Large Bullous Hemorrhagic Retinal Detachments

- Retinotomy-Choroidal patch graft
- Macular translocation

69y old M, having injections for ARMD
VA: R: CF 2m, L: HM (for the last 2
days)

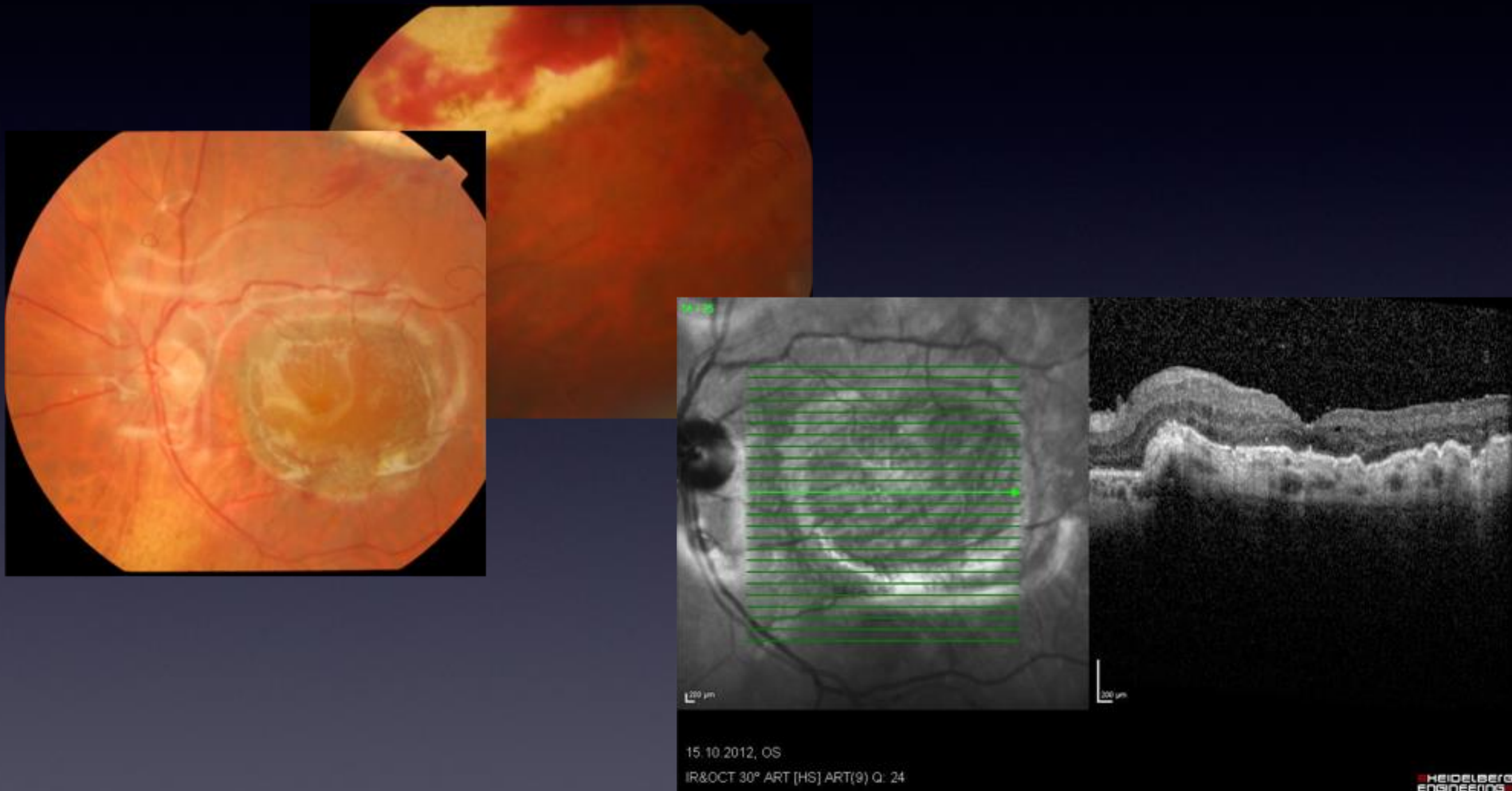


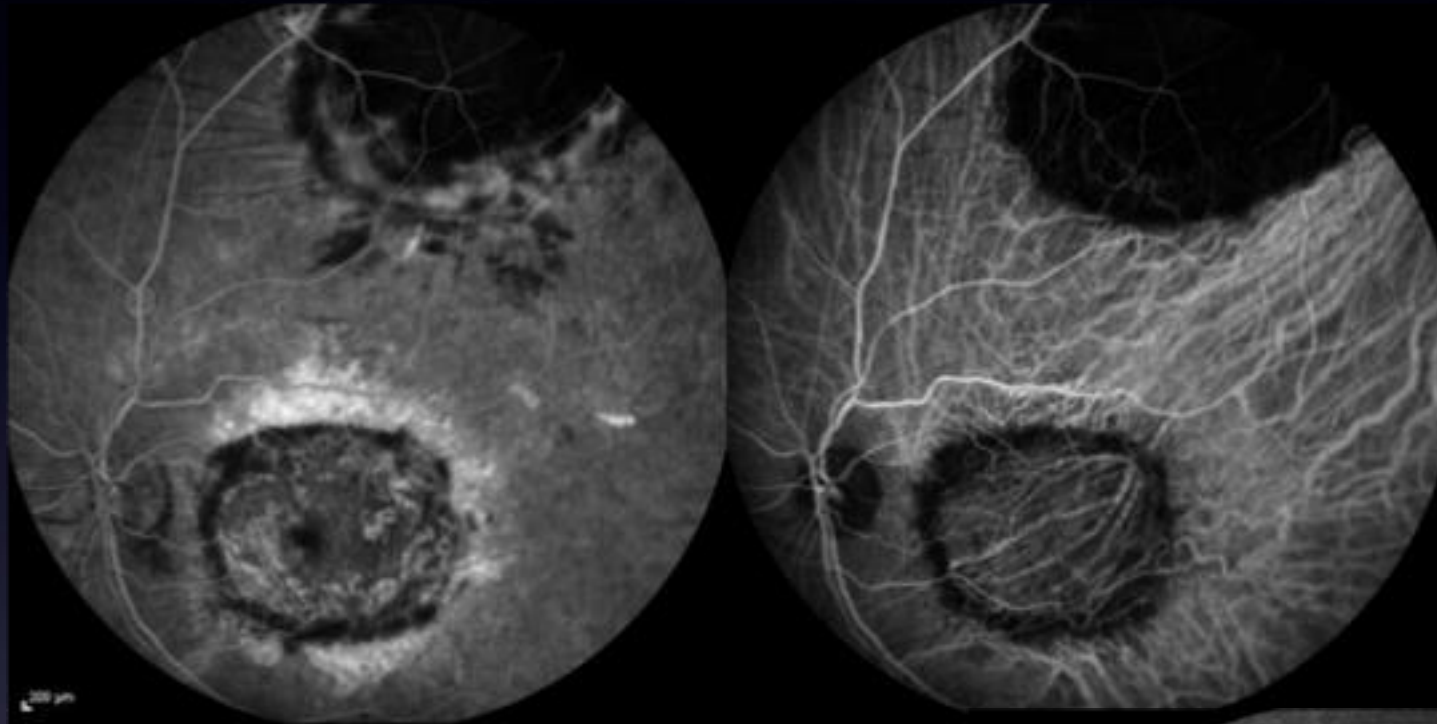
video

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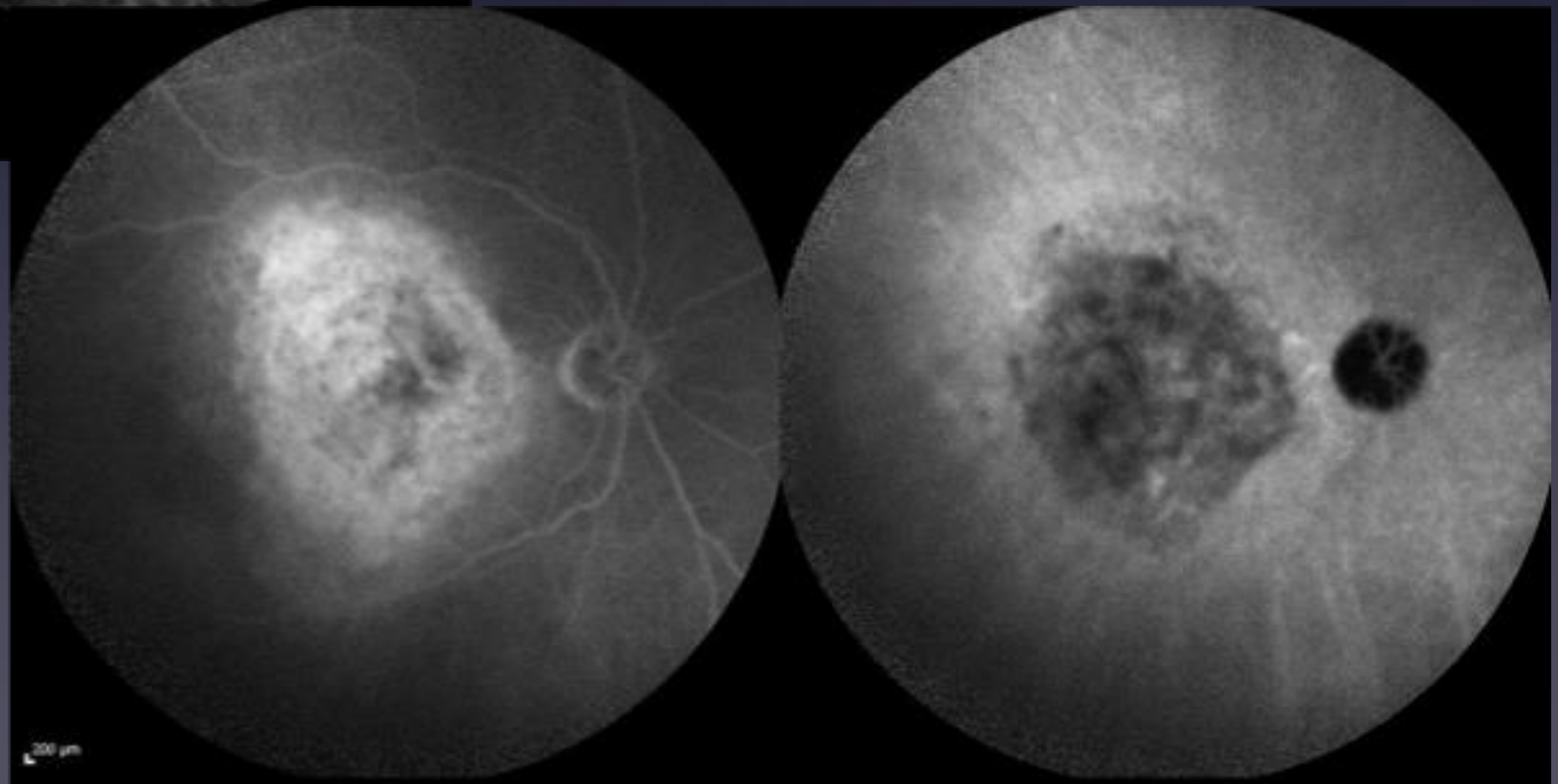
Postop 1st month: VA: 0.1





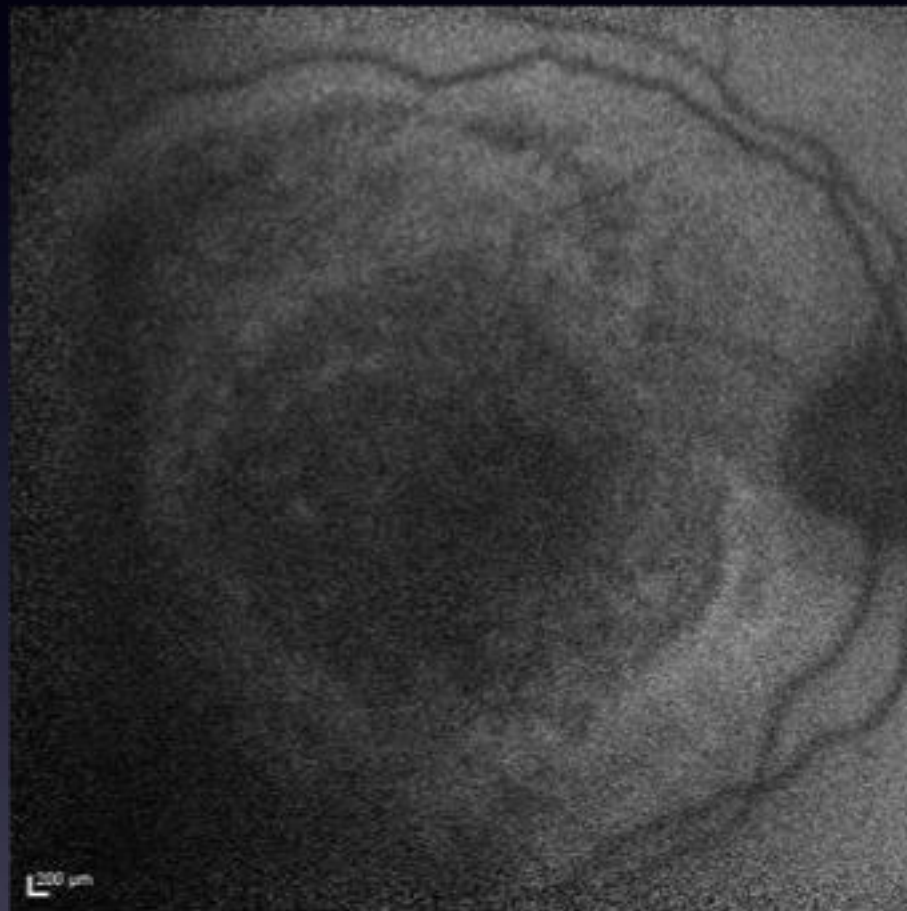
200 µm

15.10.2012, OS
FA&ICGA 1:25.19 55° ART(16) 1:25.14 55° ART(16)



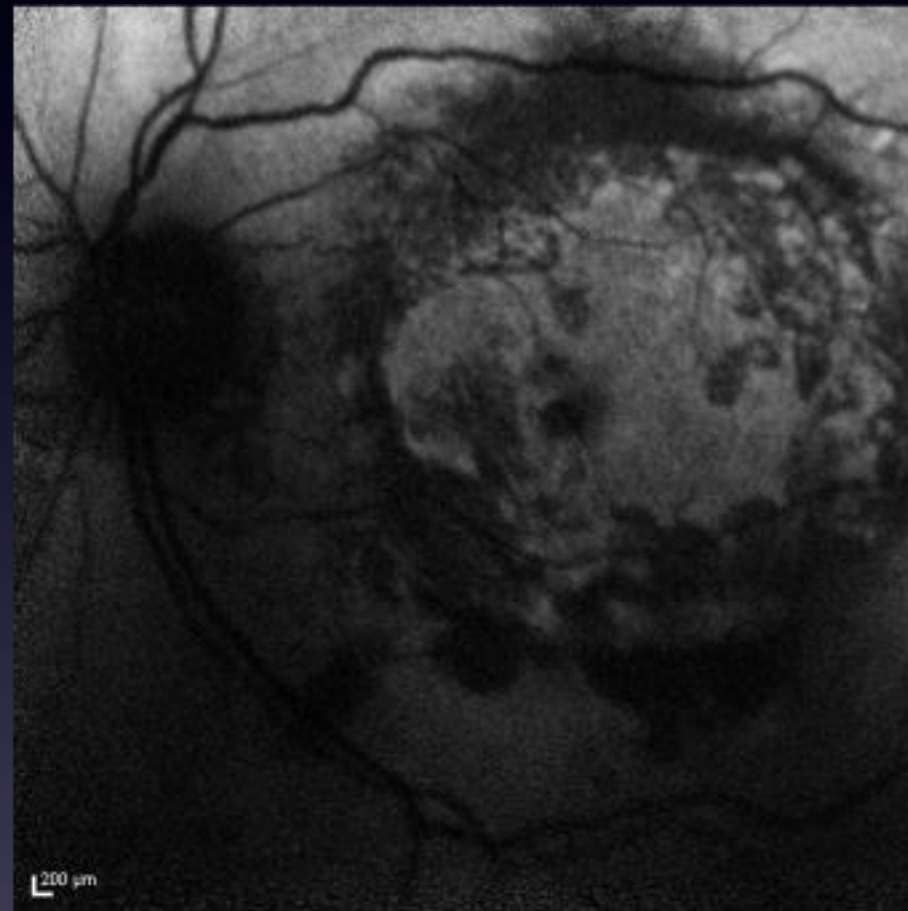
200 µm

Postop 7th month:
VA: 0.2, near reading: 20/30



15.10.2012, OD
AF 30° ART(10)

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15.10.2012, OS
AF 30° ART(17)

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Medicine is a science of Art!



THANK YOU.....