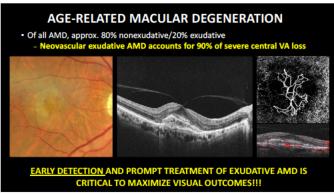


AGE RELATED MACULAR DEGENERATION Leading cause of blindness in the developed world in persons >50yo Characterized by drusen, RPE abnormalities, geographic atrophy (GA), choroidal neovascularization (CNV) Prevalence of AMD is expected to ↑ to 22 million by the year 2050 • # of cases of advanced AMD is expected to ↑ from 1.7 million in 2010 to 3.8 million in 2050

4

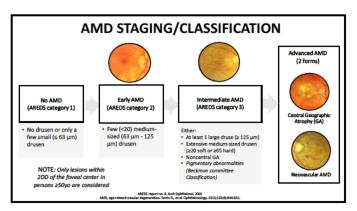
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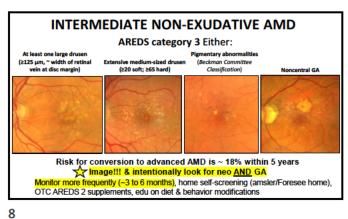
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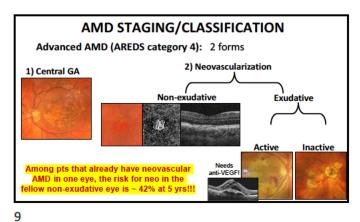


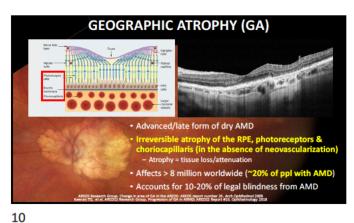
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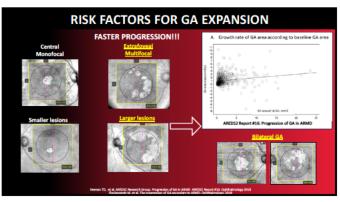
RISK FACTORS FOR AMD Age of end-stage AMD according to smoking stat Genotype/family HX of AMD Most sig modifiable risk factor for AMD (odds ratios = 2.35-3.12 current vs never) S HAVE EARLIER ONSET END-STAGE AME HTN &Heart Disease High BMI/Obesity - (mild assoc)
Hypercholesterolemia (high dietary cholesterol intake esp saturated fats and cholesterol Diet low in omega 3, vitamins/minerals, carotenoids, antioxidants



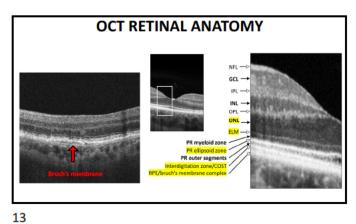


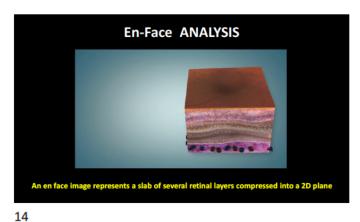


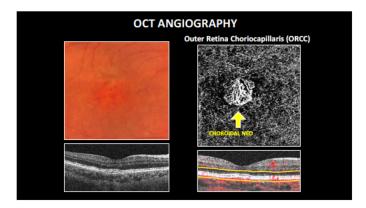


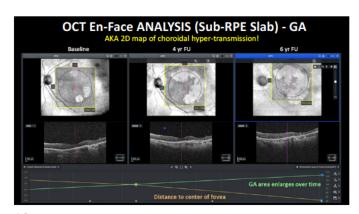


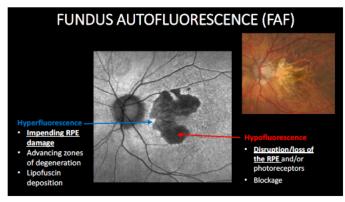
AREDS 2 Development of Central GA in Eyes Where Non-central GA was Present at Baseline (Kaplan-Meier plot) central GA (%) 70 60 Little benefit of AREDS 50 supplements on GA 40 30 do ↓ risk of exudative conversion in eyes with ntermediate stage AMD!) 20 10 2 3 Years after randomization GA enlargement is "RELENTLESS and often results in rapid central vision loss!" In eyes with incident non-central GA, 4-year risk of central involvement was 57%. In the original AREDs study, the median time from any GA diagnosis to foveal involvement was 2.5 yrs Seeman TD, et al. ASEDIC: Research Group. Progression of GA in ARMO: ASEDIC: Report ESS. Ophthalmology 2018
Oil, et al. the pathophysiology of GA secondary to ASEDIC the complement pathway as a therapeutic target. Refina 20







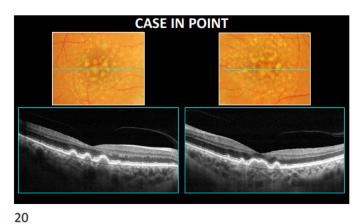


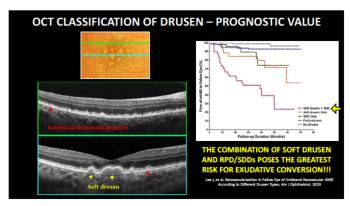


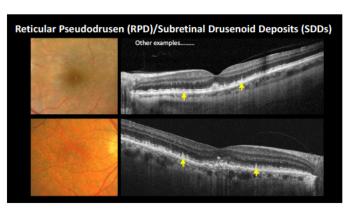
UTILITY OF IMAGING IN AMD DETECTING HEMORRHAGE! · Detecting and morphologically characterizing - Detecting/monitoring nonexudative CNVMs activity (esp fluid!) · Determining whether PED is vascularized Guides anti-VEGF therapy Subclassification of CNVM types Monitoring GA area Predicting GA expansion Visualization of reticular pseudodrusen/subretinal drusenoid deposits (SDDs) Detection and monitoring of GA

17 18



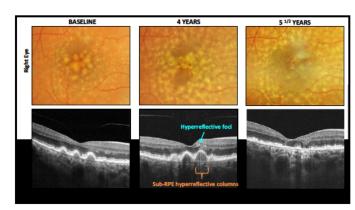


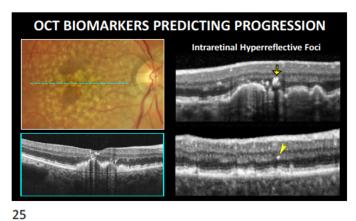


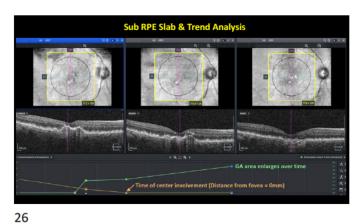


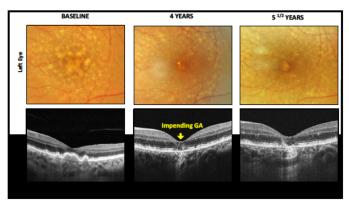
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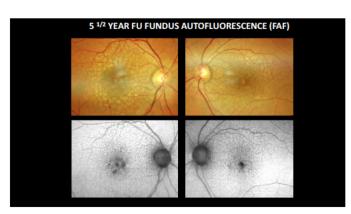


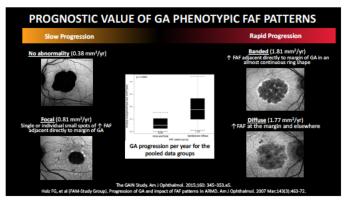


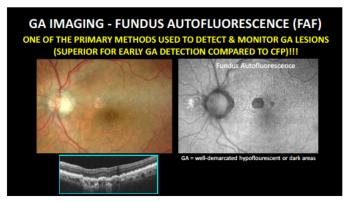


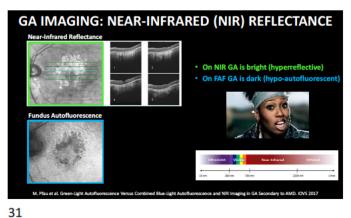


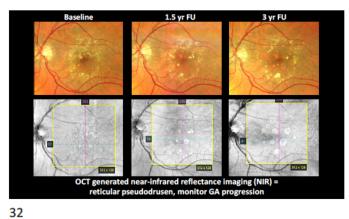


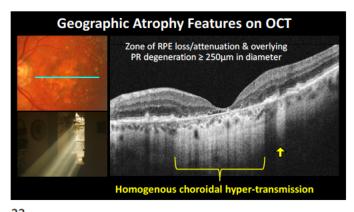


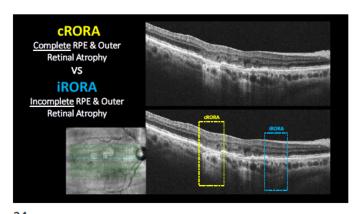




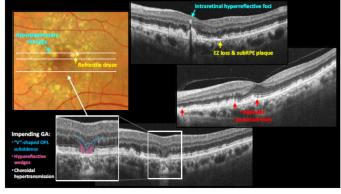


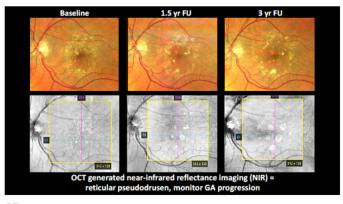


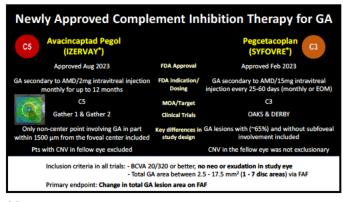


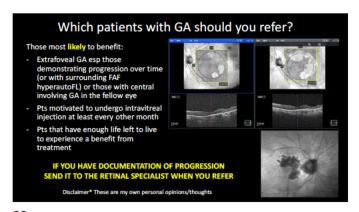


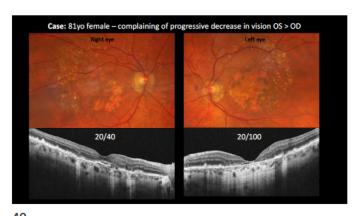




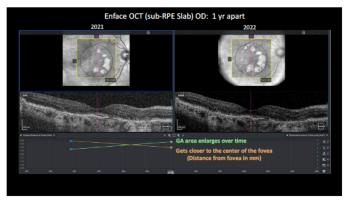


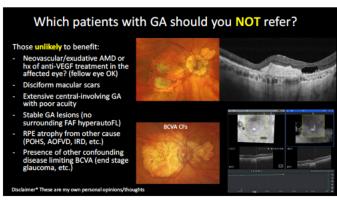




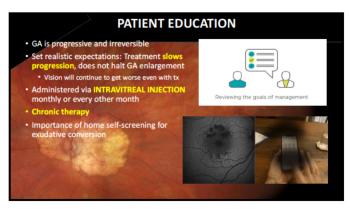


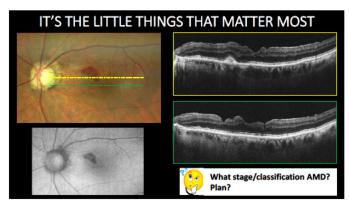
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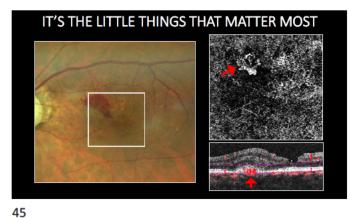


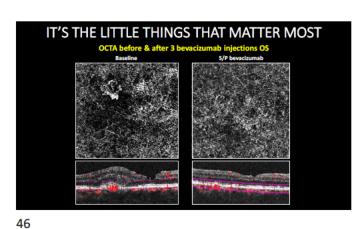


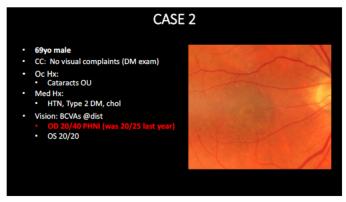
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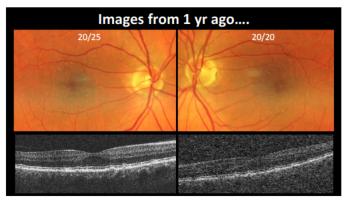




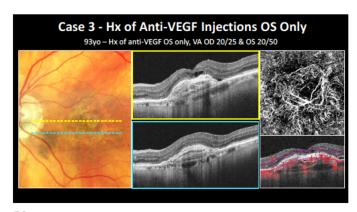


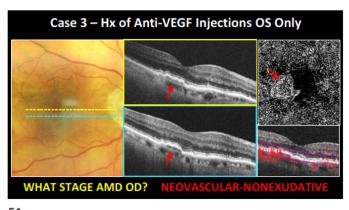


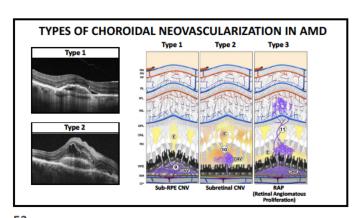




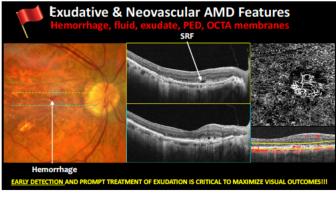


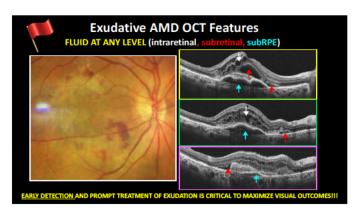


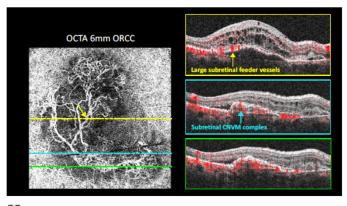


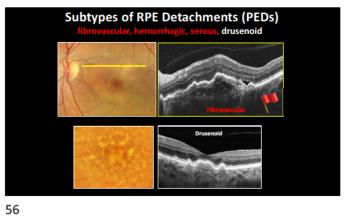


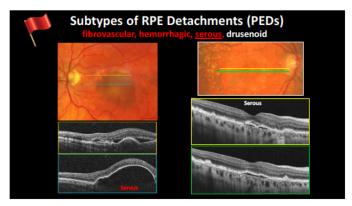
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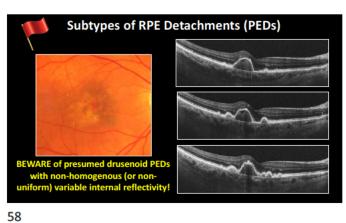




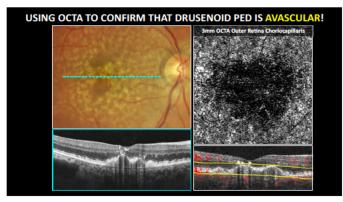


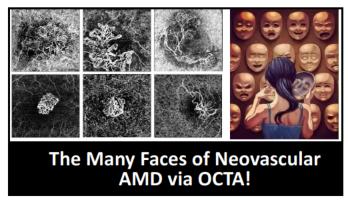




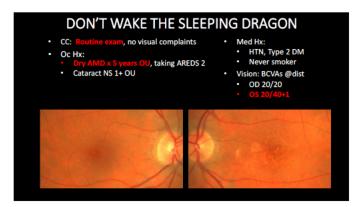


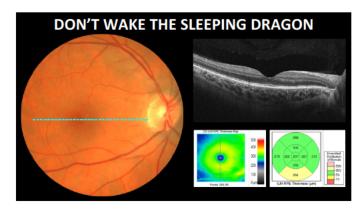
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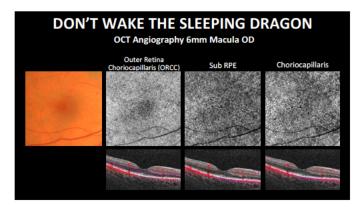


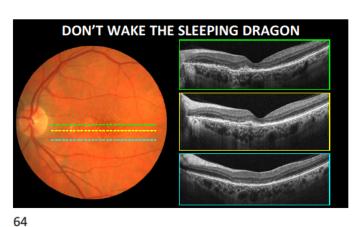


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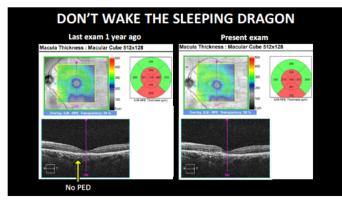






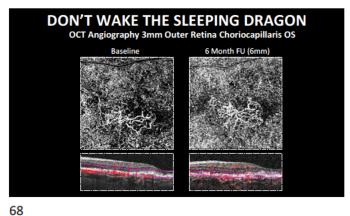


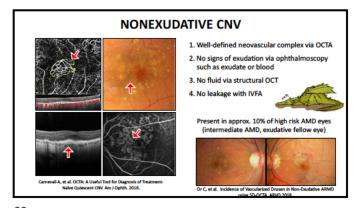
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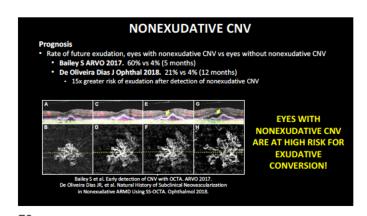












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