

Suncoast Seminar 2024 Schedule of Events

Saturday, April 27, 2024

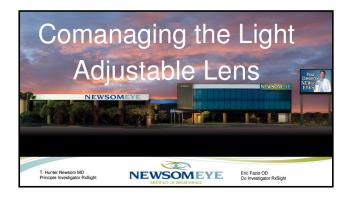
7:45 am – 8:15 am	Registration Continental Breakfast - sponsored by Eye Institute of West Florida Exhibit Hall open
8:15 am – 9:55 am	Co-Managing the Light Adjustable Lens (90938-PO) T. Hunter Newsom, M.D., Brian Szabo, D.O., and Eric Fazio, O.D.
9:55 am – 10:40 am	Break - sponsored by Updegraff Vision Exhibit Hall open
10:40 am – 12:20 pm	Emerging Trends in Macular Disease (TQ) (90790-TD) Sherrol A. Reynolds, O.D.
12:20 pm - 1:10 pm	Lunch - sponsored by St. Luke's Cataract & Laser Institute Exhibit Hall open
1:10 pm - 1:20 pm	Lighthouse of Pinellas Update
1:20 pm - 1:30 pm	F.O.A. Update
1:30 pm - 3:10 pm	Eye on Systemic Disease (TQ) (90791-SD) Sherrol A. Reynolds, O.D.
3:10 pm - 3:30 pm	Break - sponsored by Sight360
3:30 pm - 5:10 pm	The ODs Role in Diabetes (TQ) (86739-TD) Sherrol A. Reynolds, O.D.

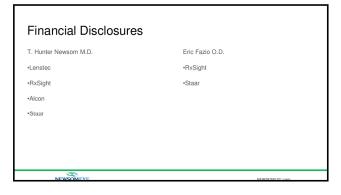
Sunday, April 28, 2024

7:30 am - 8:00 am	Registration Continental Breakfast - sponsored by Next Vision Instruments
8:00 am - 9:40 am	Neural Pearls (TQ) (89379-NO) Joe Sowka, O.D.
9:40 am - 10:00 am	Break – sponsored by Suncoast Seminar
10:00am - 11:40 am	Prevention of Medical Errors (89825-EJ) Joe Sowka, O.D.
11:40 am – 12:00 pm	Break – sponsored by Suncoast Seminar
12:00 pm - 1:40 pm	Florida Jurisprudence (89275-EJ) Joe Sowka, O.D.

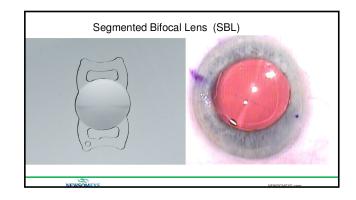




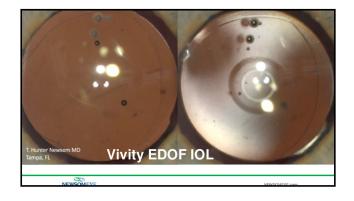




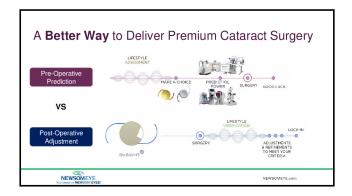




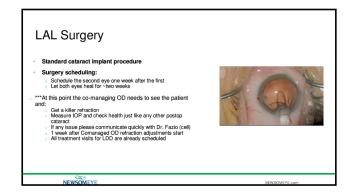
2024 SUNCOAST SEMINAR

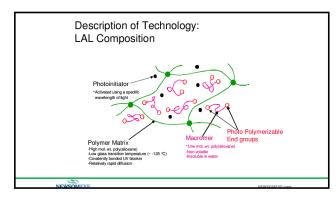


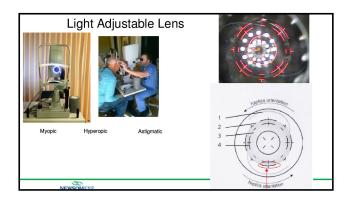


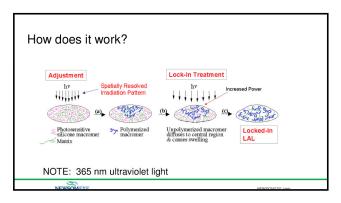


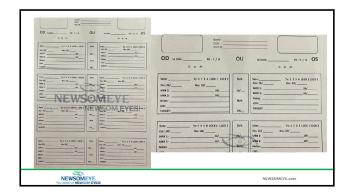


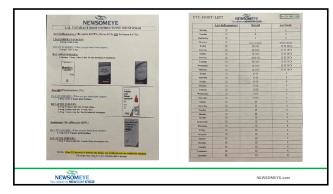




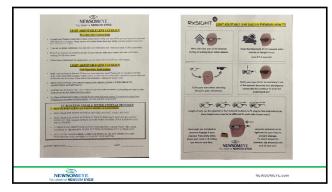




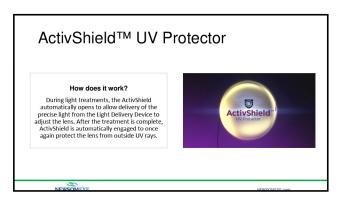




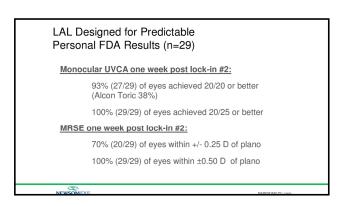


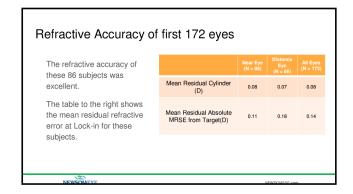


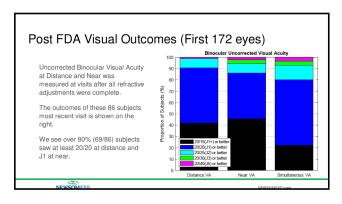


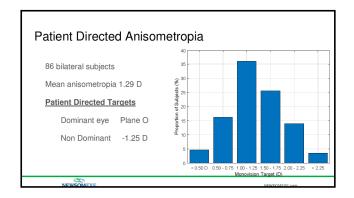


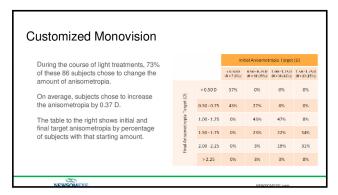
Patient Selection Any patient that desires the best quality of vision Post Refractive Surgery / Type A personality Understands and willing to commit to the process Compliance with UV Glasses Pupils dilate to 6.5 mm No h/o herpes keratitis











It's all about the Method

Conventional Cataract Surgery 1st Eye, 2nd Eye 1 week Later

3 weeks post op 1st Eye back to Comanaging OD for Quality MRX—MUST HAVE

Do not discuss Monovision

First we get the distance than we get the near

As we give you more near you will lose some distance

Any routine post op concerns patients directed to Comanaging OD

4 Weeks post op 1st Eye back on Weekly basis for 3-5 Adjustments (Avg 4)

First 3-4 visits adjustments, Last visit is Lock In

NEWSOMEVE

EWSOMEYE

Adjustment Method for Custom Distance

Initial surgical outcomes target hyperopic outcome of +0.75

1st adjustment takes patient from +0.75 to +0.25

Initial treatment of +0.50 of hyperopia gives EDOF into the lens.

"First we give you distance vision than the next adjustments we give you Near"

2nd Adjustment patient directs if you keep distance or add more near.

"How is your distance vision, computer vision, and distance vision?"

"We always take from the distance to add to the near!!"

NEWSOMEY

Adjustment Method for Presbyopia

Initial surgical outcomes target hyperopic outcome

Dist eye target +0.75 ----- 1st adjustment target for +0.25

Initial treatment of +0.50 of hyperopia gives EDOF into the lens.

"First we give you distance vision than the next adjustments we give you Near"

2nd Adjustment patient directs to add more near, stay the same, or push distance

"How is your near vision, computer vision, and distance vision?"

"We always take from the distance to add to the near!!!"

NEWSOMEV

NEWSOMEYE com

Medication Schedule

Antibiotic- tid x 1 week

Steroid- tid x 3 weeks and ad until adjustments completed

NSAID- qd until all adjustments completed

NEWSOME

Late Adjustments

If patients desire to adjust distance or near eye

A "Late Adjustment" can be performed after 3-6 months post op

Corneal surgery (Lasik) or piggyback IOL

Very rare

Relieves patient's anxiety about IOL being "LOCKED IN"

<u>@</u>

WSOMEYE com

Summary

Light Adjustable Lens is the most accurate IOL in the world

Moving away from "20/Happy" to "20/Perfect"

Corrects distance and near vision

Best option for Post Refractive IOL

(D)

Thank You!!



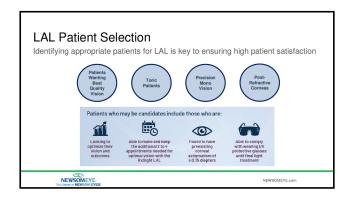


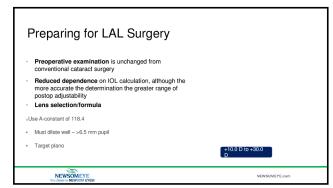
LAL Co-Management – What it Takes

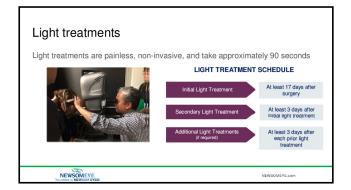
- Dr. Newsom has laid out the data and the details of just how good the results can be for this technology
- But how do we get there as Ods co-managing?
- The work for this lens is definitely AFTER the surgery to get the results NOT before.
- What do we need to know and do to be successful?
- We are going to go over everything you should do and know in pre and post-op care.

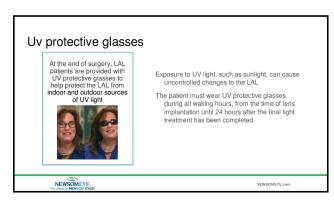
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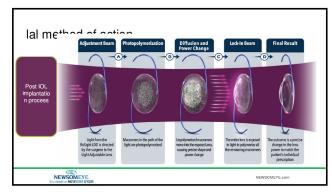


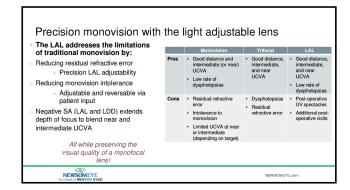


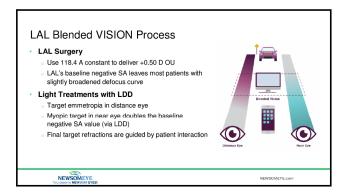










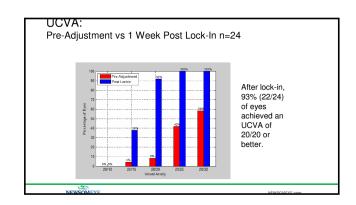


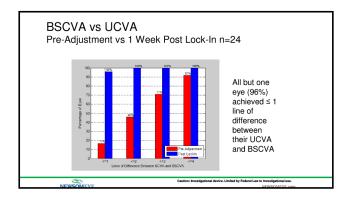
Refractive Accuracy (24 LAL eyes)

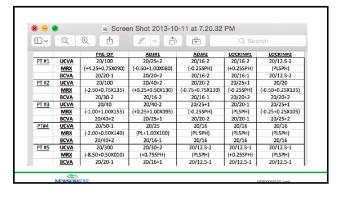
*67% (16/24) of eyes are within
0.25D of the target MRSE of plano at
1 week post-lock-in.

*100% (24/24) of eyes are within
0.50D of the target MRSE of plano at
1 week post-lock-in.

*NEWSCALEYE

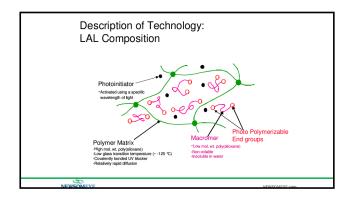


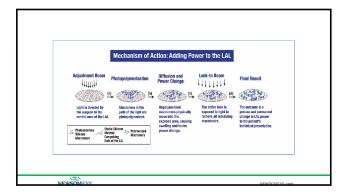












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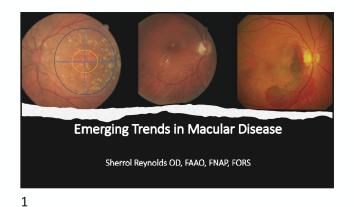


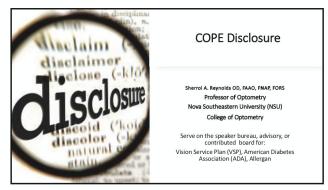


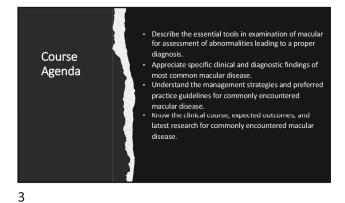


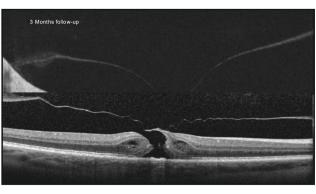


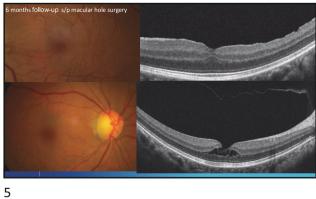


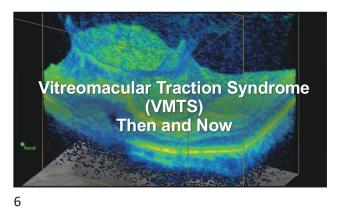


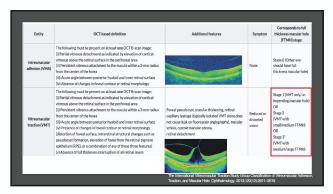


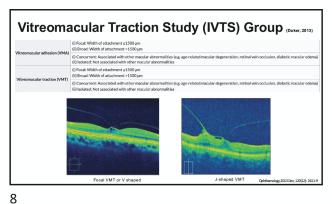












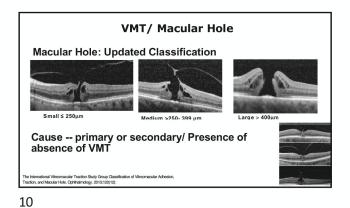
Predictors of Vitreomacular Traction Release

• VMT- Classified by the degree of inneronly versus both inner and outer retinal involvement

• Spontaneous resolution

• 10–32% of VMT with only inner retinal distortion are more likely to have spontaneous resolution of traction compared with those who had both inner and outer retinal distortions.

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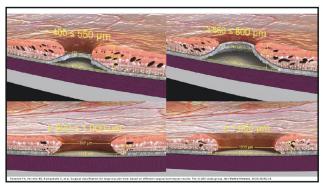
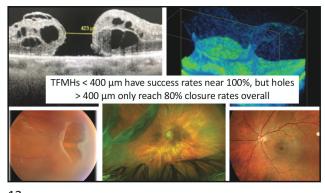
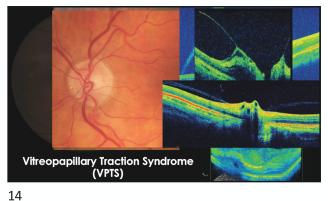
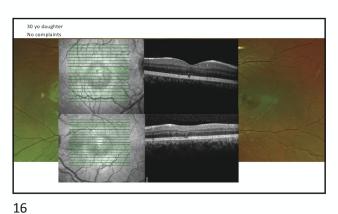


TABLE 3. MEAN BCVA GAINS BASED ON SURGICAL Technique (logmar)					
Large	X-Large	XX-Large	Giant		
-0.5293	-0.4248	-0.3858	NA		
-0.3602	-0.3778	-0.2338	-0.2694		
NA	-0.4748	-0.3441	-0.5664		
-0.4902	-0.5177	-0.5342	-0.3497		
0.2202	-0.3561	-0.4633	-0.4178		
	-0.5293 -0.3602 NA -0.4902	Large X-Large -0.5293 -0.4248 -0.3602 -0.3778 NA -0.4748 -0.4902 -0.5177	IQUE (LOGMAR) Large XX-Large XX-Large -0.5293 -0.4248 -0.3858 -0.3602 -0.3778 -0.2338 NA -0.4748 -0.3441 -0.4902 -0.5177 -0.5342		

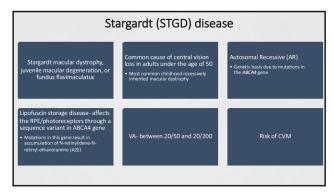


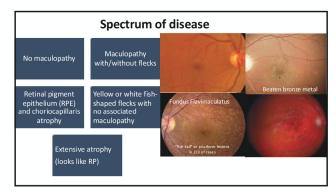




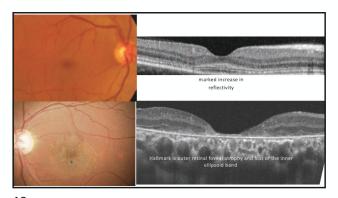


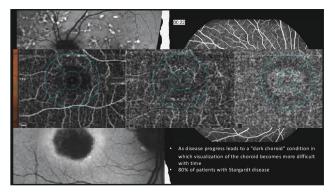
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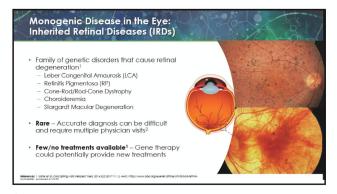




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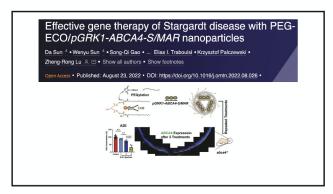


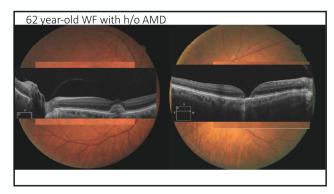






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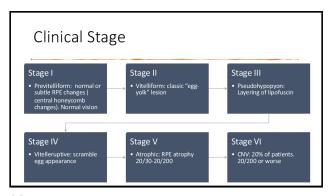


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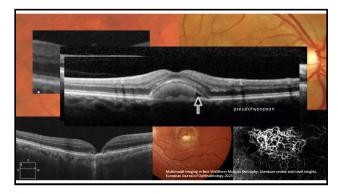
Adult-onset Macular Vitelliform Dystrophy (AVMD)

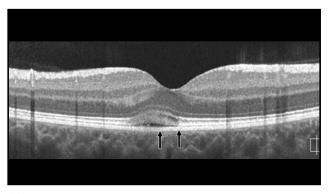
- Adult-onset foveovitelliform macular dystrophy (AFVD)
- Autosomal dominant (AD) disease
- Bilateral vitelliform (egg-like) lesions in the macula
 - closely resembles Best's disease
 - Bestrophinopathies
- BEST1 mutation/ PRPH2
 - Lipofuscin deposits in the RPE layer
- Abnormal electrooculogram (EOG)
- Risk of CVM

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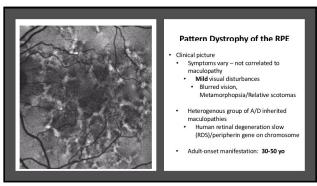


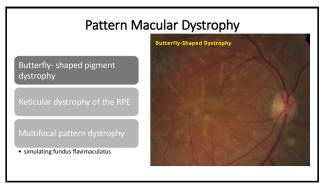
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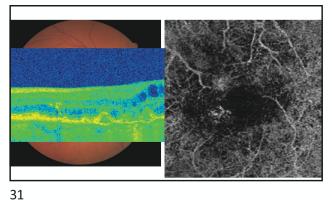


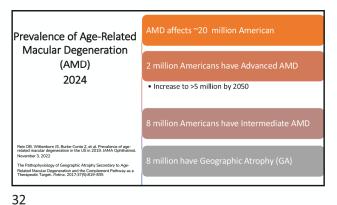
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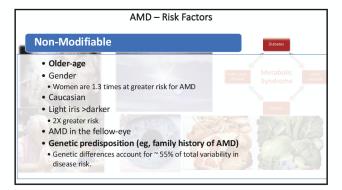


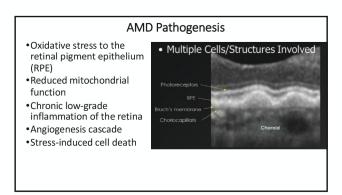


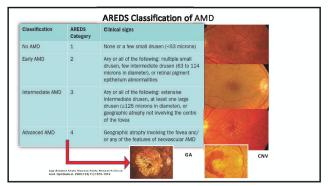
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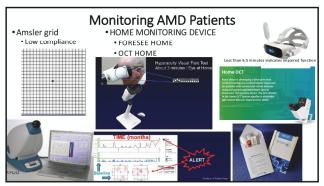


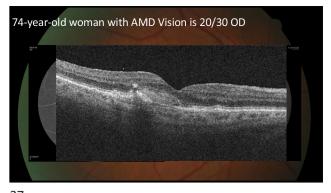












SD-OCT: AMD High Risk Features

Loss of RPE integrity
Disruption of Photoreceptor
Intraretinal Hyper-reflective foci overlying druse (pigment migration)
Hypo-reflective foci within druse ('softening of drusen)

37 38



6 months follow-up with compliant of metamorphopsia OD

39 40

Current ARMD TreatmentOptions • Photodynamic therapy – used Rarely – PCV, chronic leaking growing lesions with scars • Macugen – used "maybe never" very ineffective but still available • Avastin – used with step therapy and for cost reasons • Lucentis • Eylea • Beovu – used rarely – unresponsive CNV • Vabysmo – increasing usage due to improved duration and efficacy • Susvimo – rarely used – new technology – few trained surgeons • Biosimilar Lucentis – usage will start soon and be dictated by insurance

Latest Treatment

Anti-Vegf Biosimilars

*A biosimilar is a biological product that is approved based on data showing that it is highly similar to a biological product already approved by the FDA (reference product) and has no clinically meaningful differences in terms of safety, purity and potency (i.e., safety and effectiveness) from the reference product, in addition to meeting other criteria specified by law.

Currently, 2 FDA approved Ranibizumab Biosimilars

Byooviz (Samsung) approved Sept 2021

Cimerli (Coherus) approved Ct 2022

Many in development

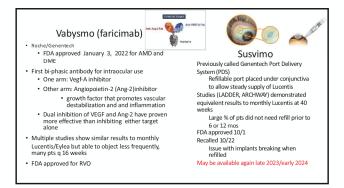
Ranibizumab ≈ 5

Affilibercept ≈ 8

Bevacizumab ≈ 1 Outlook Pharmaceuticals

Bevacizumab ≈ 1 Outlook Pharmaceuticals

Brown Figure 1 Amount 1 Popular 1 Popular 1 Popular 2 Popular 2 Popular 3 Popular 3





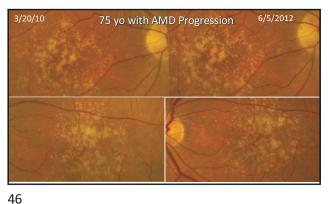
The Results of the 10 Year Follow-on Study of the Age-Related Eye Disease Study 2 (AREDS2)

Purpose: To assess the long-term effects of adding lutein/seasanthin and omega-3 fatty acids to the Age-Related Eye Disease Study (AREDS) supplements on age-related macuid regeneration (AMD) progression and adverse side-effects.

Conclusion: The 10-year Follow-on study replicated the findings of the randomized clinical trial at 5 years. Lutein/seasanthin, when compared with beta-carotene, had an incremental beneficial effect on progression to late AMD. Beta-carotene doubled the risk of lung cancer, providing support for Lutein/seasanthin as a replacement of beta-carotene in the AREDS2 supplements

Methods: Pre-ARIESZ climical frair analomely assigned puricipans with bilateria intermedials ARD or in the ARD in one ye for little intermedials that or intermedials are also income part for intermedial scale or placetos. Scenetoley renderination also evaluated unjuried poises of head-actions (in x-15 mg) and x-10 S w. 80 mg). As the end of the crimical trial, a follow-up study was conducted with 6-monthly depicture calls to the surviving ARIESZ participants from the end coordinating evener to collect outcome data and adverse events in the germanizing for an additional Systam. Medical record were obtained from treating physicians to validate any self-exported diagnosis or treatment of lax ARIA ortications at side effects. ARIESZ supplementa-tional contributions of the contribution of the contribution of the contributions of the c

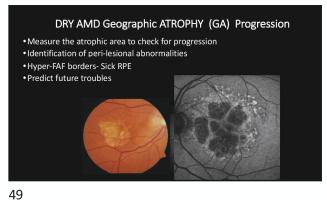
Results: 6360 study eyes (3887 participants) were analyzed and 3047 (48%) progressed to late AMD. The main effects of lutein/zeaxanthin vs. no luteinzeaxanthin and of omega 3 fatty acids vs. no omega 3 fatty acids resulted in hazard ratios of 0.91 (95% Ct: 0.89-0.99) (p=0.03) and 1.00 (0.92-1.09) (p=0.91), respectively. When the lutein/zeaxanthin main effect analysis was restricted to those randomized secondarily to beta-carotene, the HR was 0.90 (0.69-92) (p=0.003). On direct analysis of lutein/zeaxanthin vs. beta-carotene, the HR was 0.85 (0.74-0.98) (p=0.026). For the comparisons of low vs. high zinc and no beta-carotene vs. beta-carotene, the HRs were 1.04 (p=0.48) and 1.04 (p=0.50), respectively. For those randomized to beta carotene, the odds ratio (OR) of developing lung cancer was 1.92 (1.11-3.31)(p=0.02) while the OR for those randomized to lutein/zeaxanthin was 1.19 (0.82-1.73)

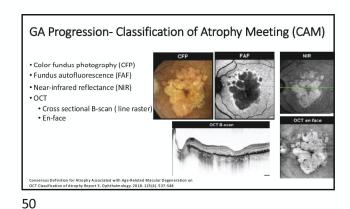


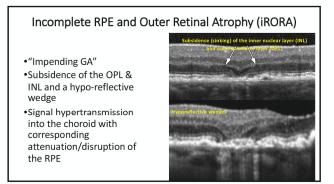
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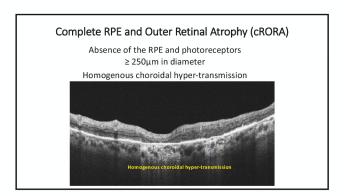


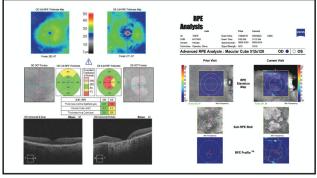
Geographic Atrophy (GA) 8 million worldwide Nearly 1 million in the U.S. 1 in 29 people over 75 • 1 in 4 over 90 ~20% of legal blindness in the U.S

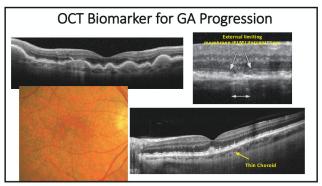


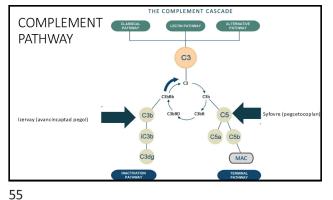


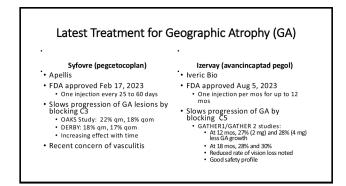


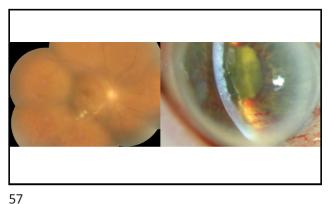


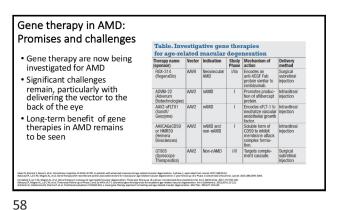


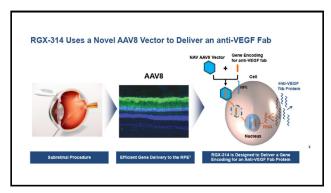


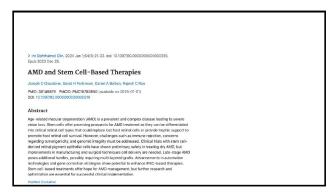










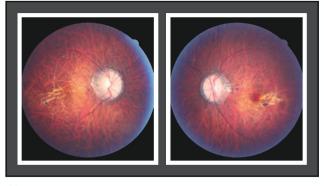


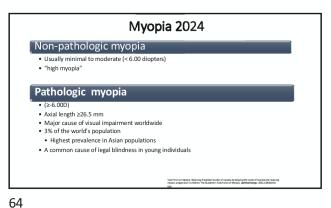
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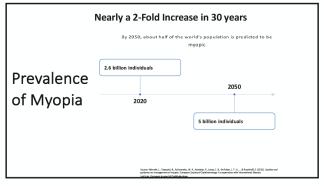


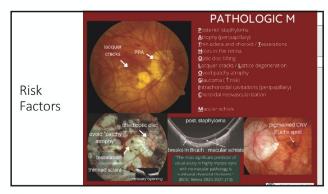
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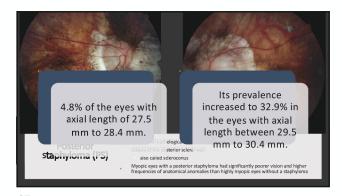


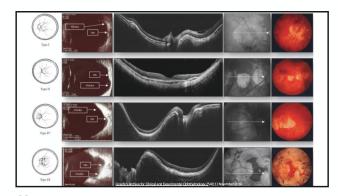
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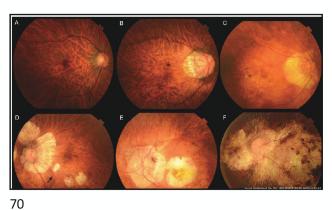


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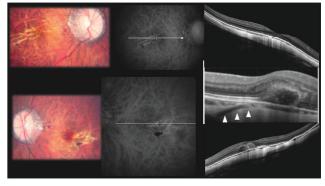


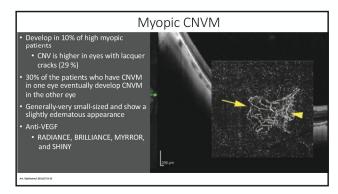


Tessellated fundus
 Diffuse choroidal atrophy
 Patchy choroidal atrophy
 Macular hemorrhage

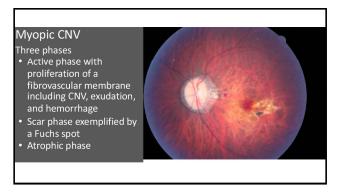


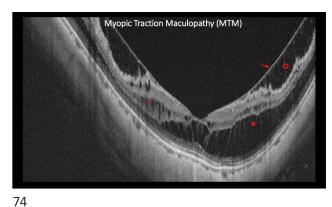
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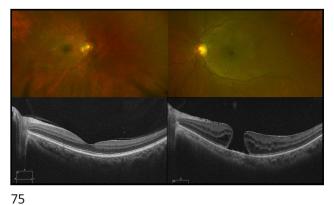


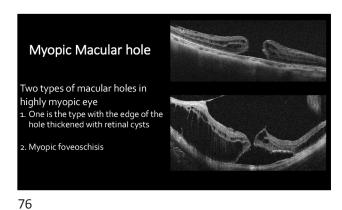


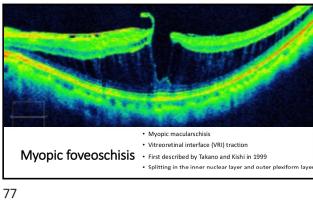
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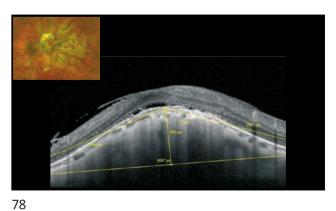


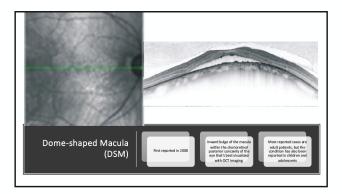


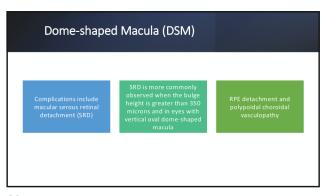


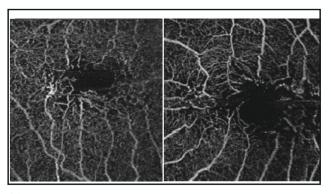


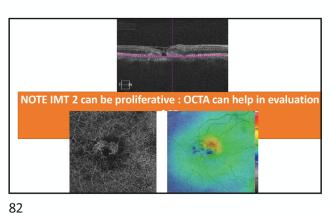












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Macular Telangiectasia

- Poorly Understood Degenerative Retinal Disorder
- Chronic, usually Slowly Progressive Neurodegeneration
 - Perifoveal Capillary Abnormalities
 - Vascular inflammation and capillary alteration
 - Loss of outer nuclear and ellipsoid zone
 - Cystic cavitation-like changes resulting in macular thinning and macular hole formation
 - Atrophic changes start in the outer retina leading to intraretinal loss formation of partial or full-thickness macular holes differ from VM interface
 - May result in the choroidal neovascular formation
- Risk Factors
 - Genetic
 - Association with Diabetes, HTN, Obesity

Macular Telangiectasia

• Subtypes

• Type 1

• Congenital, Unilateral, maybe a variant of Coat's Disease (Developmental Anomaly)

• Type 2 (AKA Mac Tel type 2)

• Most common, bilateral

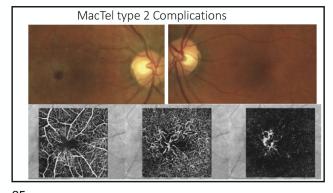
• Genetic- Reported cases in families including identical twins

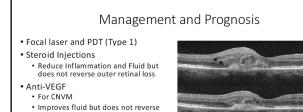
• Age: 30-60

• Type 3

• Rare and poorly understood retinal vascular disorder

• DDX: RVO, DR, Radiation Retinopathy, AMD

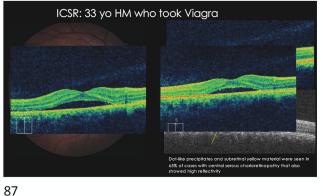




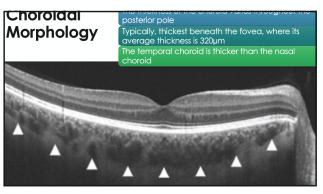
outer-retinal loss • Ciliary neurotrophic factor (CNTF) • Under Investigation

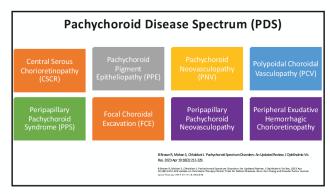
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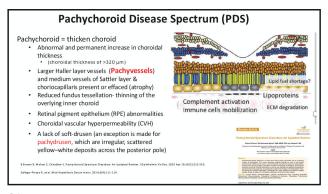


Fourth most common retinopathy **Central Serous** Classification Chorioretinopathy Isolated or multifocal RPE or serous detachment(s)
 Bullous serous retinal detachment (CSCR) Chronic CSCR Etiology Type A personality-catecholamine release, which increases choroidal permeability
 Psychological stress and depression, sleep apnea, medications (steroids, MEX inhibitors, pseudoephedrine, Methylenedioxymethamphetamine (MDMA) or ectsasy, slidenafil), H. pylori infection, HTN, endocrine disorders





89 90





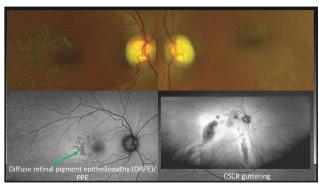
Pachychoroid Disease Spectrum (PDS)

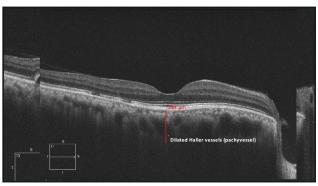
- Choroidal vascular congestion/ attenuation
 - · Thickened sclera
 - · Lengthened intrascleral course of vortex veins
- Physiologic Factors
- Excess choroidal interstitial fluid/choroidal vascular hyperpermeability (CVH)
- Precapillary arteriolar hypertension
- Altered intravascular osmolality (serum proteins (albumin))
- Pharmacologic agents
 - Corticosteroids
- Phosphodiesterase (PDE) inhibitors
- Alterations in interstitial tissues in the choroid

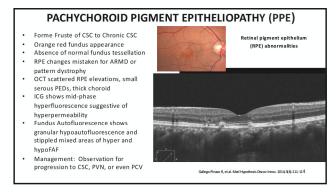
E Brawn K, Mohan S, Chhaolani J. Pachycherold Spettrum Disorderic An Updated Rovine J. I Ophthalmic Vis Rel. 2023 Apr 39;18(2):222-221
Gallego-Pinzos R, et al. Med Hyp othesis Discov Innov. 2014;14(1):11-11.4.

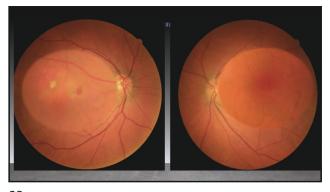


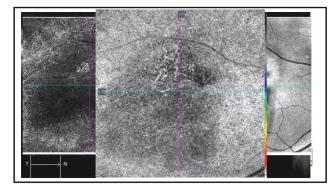
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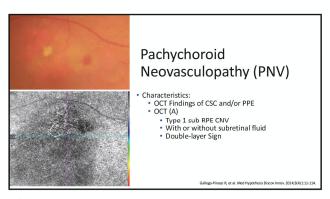






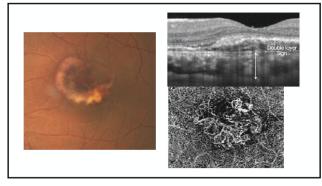




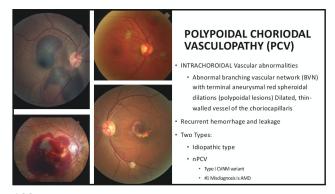


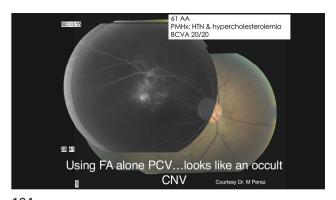
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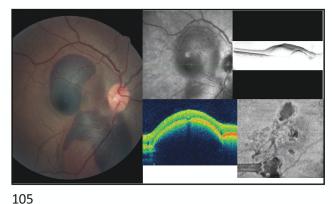


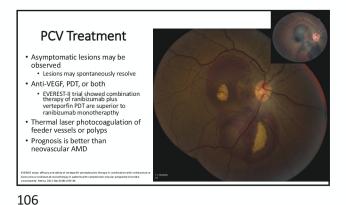


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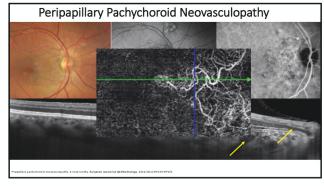




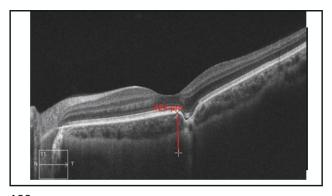


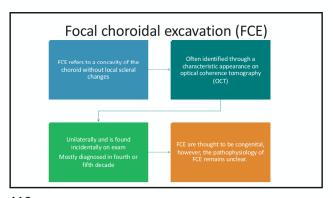


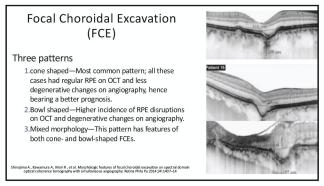
Peripapillary Pachychoroid Syndrome (PPS) Hyperopic refraction and short axial lengths (39% less than 23 mm) Patients with PPS may have choroidal folds (77%) Small cup-to-disc ratio More commonly in males and is usually bilateral

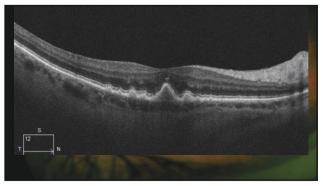


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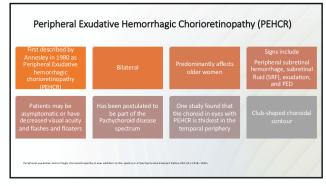




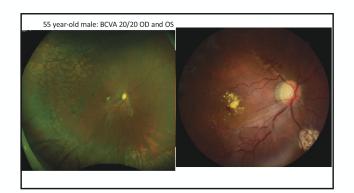


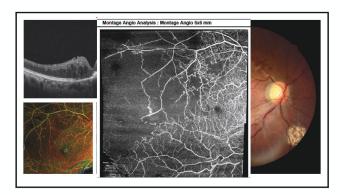
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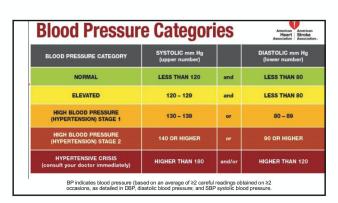




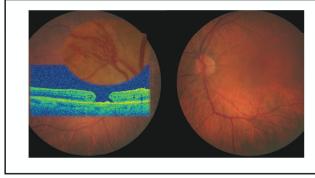


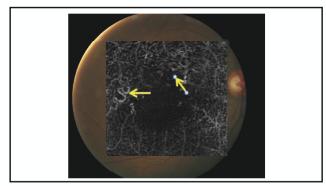




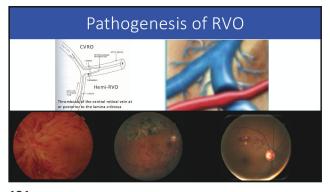


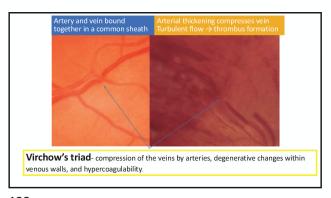
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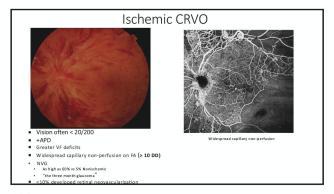


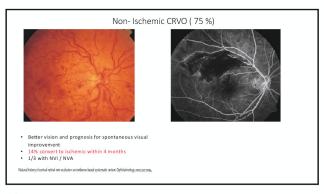


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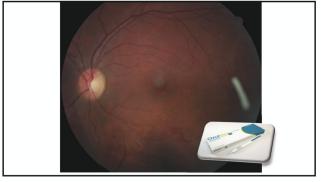


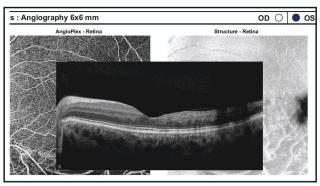






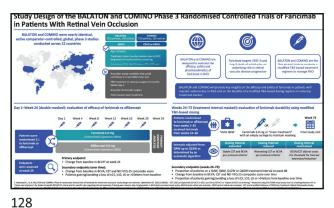
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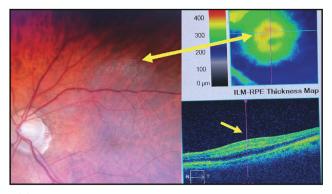


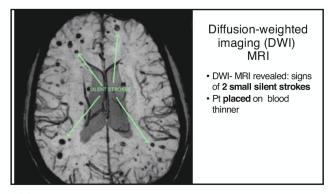


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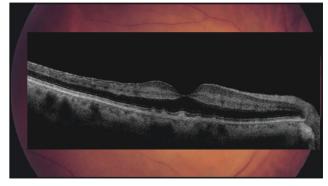


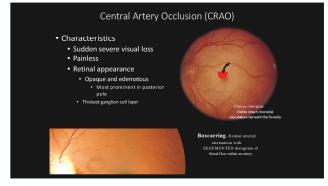




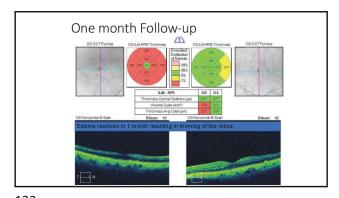


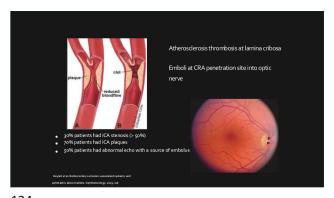
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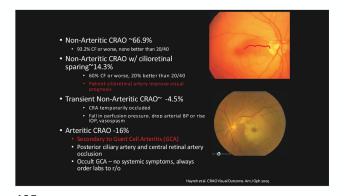


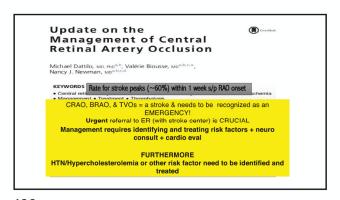


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Retinal Artery Occlusion Emergent Stroke Evaluation

CRAO, BRAO, & TIAS = a stroke & needs to be recognized
as an EMERGENCY!

Silent POSITIVE DWI-MRI strokes are seen in:

- >555% of CRAO

- °31% of BRAO

- °31% of BRAO

- °31% of BRAO

- °31% of BRAO

Especially during the next week to month

Rate for stroke peaks ("60%) within 1 week s/p RAO
onset

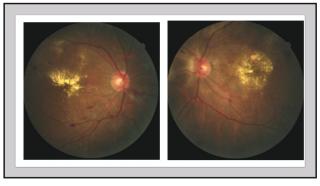
Urgent referral to ER (with stroke center) is CRUCIAL

Management requires identifying and treating risk
factors + neuro consult + cardiology evaluation

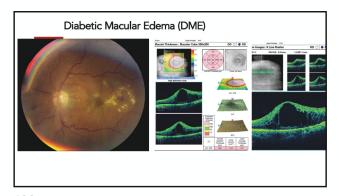
Refinal and ophthalmic artery exclusion greaters in Condentendous 2000 1279(1) 1279-1279-1278

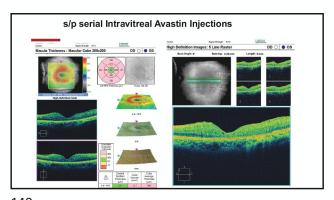
Refinal and ophthalmic artery exclusion greaters in Condentendous 2000 1279(1) 1279-1279-1278

Refinal and ophthalmic artery exclusion preferred practice pattern [published correction appears in Condentendous 2000 1279(1) 1270, 1279-1278.

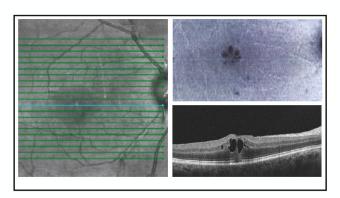


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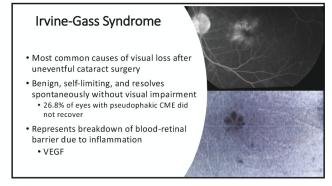








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Pseudophakic Cystoid Macular Edema

- RTCX 3-4 weeks to determine improvement
- Persistent CME
 - steroid injection
 - Anti-VEGF drugs
 - Surgical therapy
 - Pars plana vitrectomy (PPV)

