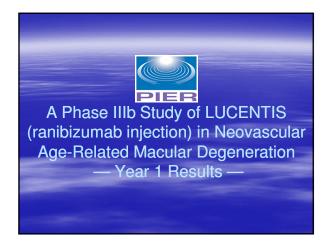
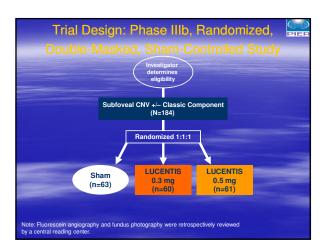
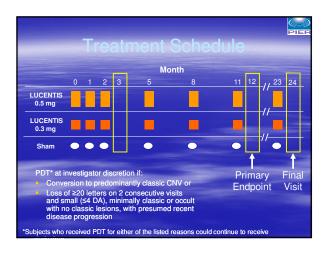
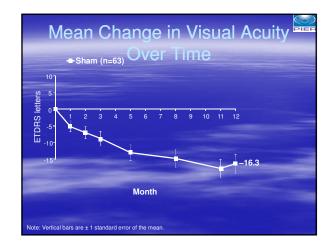
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Intravitreal Avastin:	
Phil Rosenthal MD:	
- CANIA studiu Intervence susstin for	
 SANA study: Intravenous avastin for bilateral CNV 	
50% of patients improved vision	
(33% = 3 or more lines)	
	1
Intravitroal Avactine	
IIII aviii cai Avasiiii.	
Over 30,000 patients world-wide treated	-
	-
	<u> </u>
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Intravitreal Avastin:	
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Over 30,000 patients world-wide treated	
Duration of action = 3-4 weeks	
	-

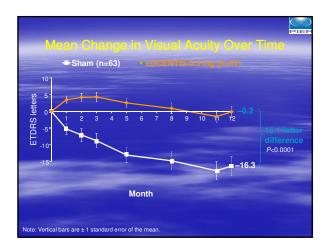
_	
Intravitreal Avastin:	
Over 30,000 patients world-wide treated	
Duration of action = 3-4 weeks	
• \$50-70/dose (vs \$2000)	
	-
	I
Disadvantages to Avastin:	
Off-label treatment	
Un-known long term sequelae	
 Possible increased risk of CVA/MI 	
1/400 the systemic dose	
	.
Another Problem with Lucentis:	
24 injections in 24 months	
• ? tolerability	

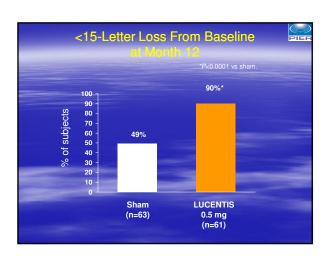


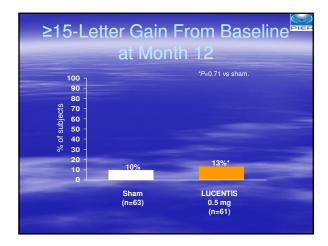










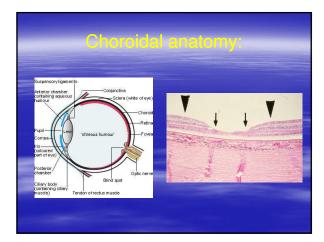


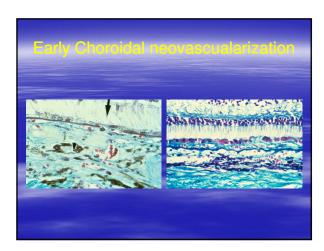
Intravitreal Lucentis: Patients treated with 24 injections over 24 months had a 30-35% chance of improving 3 lines of VA (? tolerable)

Intravitreal Lucentis: Patients treated with 24 injections over 24 months had a 30-35% chance of improving 3 lines of VA (? tolerable) Treatment with fewer than monthly injections results in lower "effect"

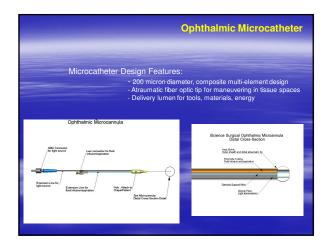
Intravitreal Lucentis:

- Patients treated with 24 injections over 24 months had a 30-35% chance of improving 3 lines of VA (? tolerable)
- Treatment with fewer than monthly injections results in lower "effect"
- Possible "more" local drug delivery

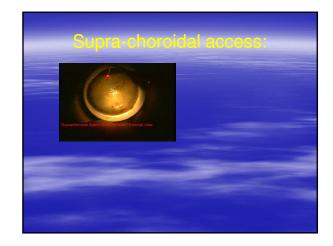


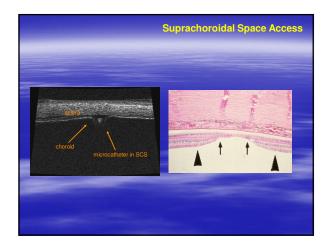






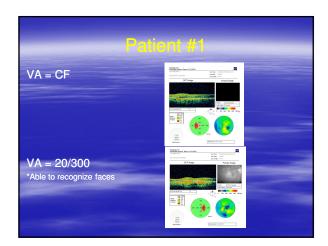


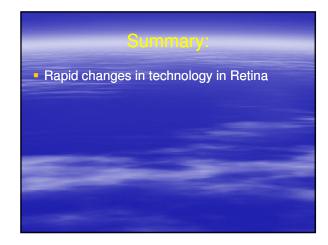




Supra-choroidal drug delivery:
2 patients enrolled to date (phase 1 trial)
All MUST have failed conventional treatments

Patient #1: 79 yo WF "fifth opinion" Failed PDT, Kenalog, and Avastin Recent VA loss from 20/50 – 20/300 20/300 - CF Other eye is HM (AMD)





Summary:	
Rapid changes in technology in Retina	
 Rapid changes in Optometry 	
Summary:	
Rapid changes in technology in Retina	
Rapid changes in Optometry	
Continuing Education	
"Eye on 2006" (Sat Aug 19, 2006)	
- 6 lecturers (plastics, lasik, Cat, glauc,retina)	
- 3.5 hours of OD CE credits	
- Registration waived (\$75)	
- Huntington Hospital (Pasadena, CA)	

Retina Institute of Californ

- Started Nov 05
- Tom Chang MD and Adam Martidis MD
- Mission: To raise the bar for the level of patient care provided in the field of Retina.

 - Technology

 - Patient care

 - Education/research

Offices in: Pasadena

Hacienda Heights

Claremont (*Jan 07)

Retina Institute of California

- Visit surgery center (Vitrectomy surgery)
 - 25 gauge surgery
 - teaching microscope
 - LCD viewing screen

- Visit our Office - Teaching scopes

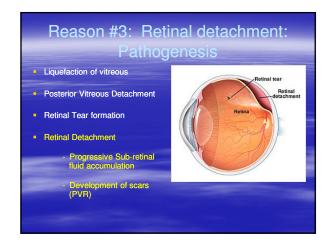
- Technology on steroids

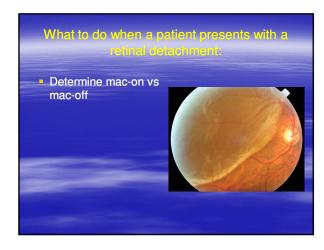
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Retina Institute of California: Visitor	
information	
Visit surgery center (Vitrectomy surgery)	
Electronic Medical Records	
Clinical trial patients (failed all other treatments)	
 www.retinainstituteca.com 	
• retina911@yahoo.com	
Thomas Vova	
Thank You!	

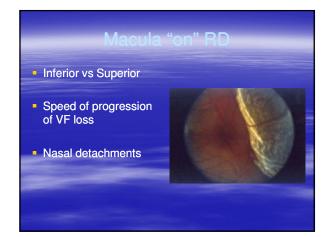
Reason #3: Retinal detachment	
Pathogenesis	
Treatment options	
Information for the VR surgeon	
Common myths	-
• Pearls	
Decree #0 Defined detections	
Reason #3: Retinal detachment: Pathogenesis	
Liquefaction of vitreous (loss of HA "glue")	
- Age - Myopia	
- Cataract surgery - YAG capsulotomy	
- Inflammation	-
B "0 B " 11 1 1	
Reason #3: Retinal detachment: Pathogenesis	
Liquefaction of vitreous	
Posterior Vitreous Detachment	
- Flashes and floaters - Presence of Weiss' ring	
- 3 week window of "activity"	
- Look for pigment in vitreous	
	-

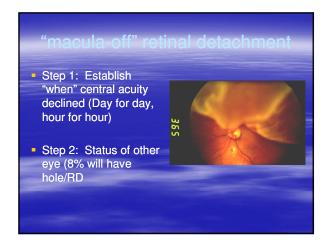


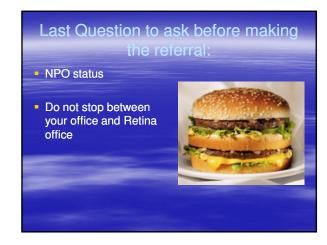


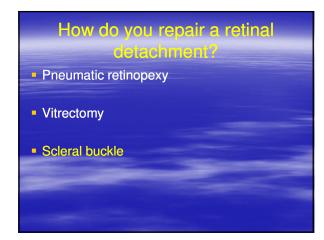






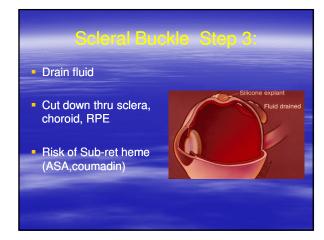


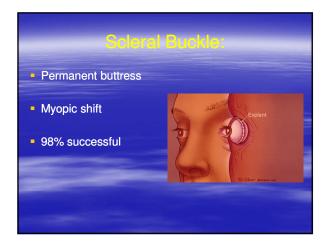












Scieral Buckle: Disadvantages Pain Time off work Myopic shift Lasik flap

Pneumatic Retinopexy: Office procedure No myopic shift Comfortable/less traumatic 85% success

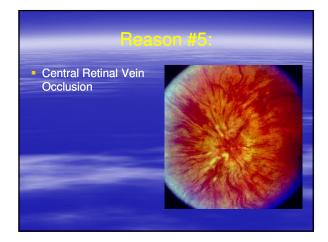
Vitrectomy for Retinal Detachment: Advantages: Less painful Rapid visual rehabilitation (25 Gauge) No effect of refractive error (ie LASIK pts)

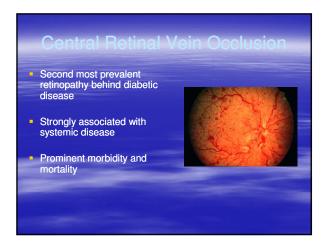


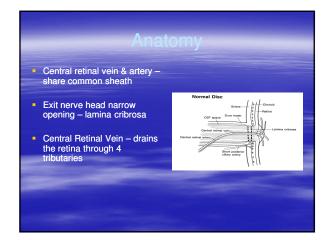


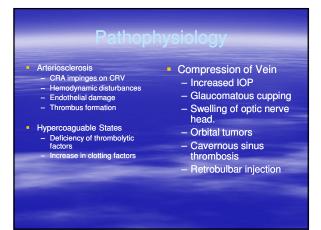


Things to communicate to the Patient: Day for day, hour for hour NPO and ASAP Re-dilate Refractive error











Warning signs: Age: Between 30 and 45 History of Vein occlusion in fellow eye History of Deep Vein Thrombosis, Repeated spontaneous Miscarriages

Special Tests	
Flourescein Angiogram	
- Non-Ischemic CRVO	
Diffuse capillary leakage	
Prolonged venous filling time	
- Ischemic CRVO	
Widespread capillary nonperfusion (greater than 10 DA)	
More pronounced prolonged venous filling time	
• ERG	
- Ischemic CRVO	
Diminished b:a wave amplitude ratio < 1.0	

CRVO:	
Non-Ischemic	80%
Ischemic	20%

