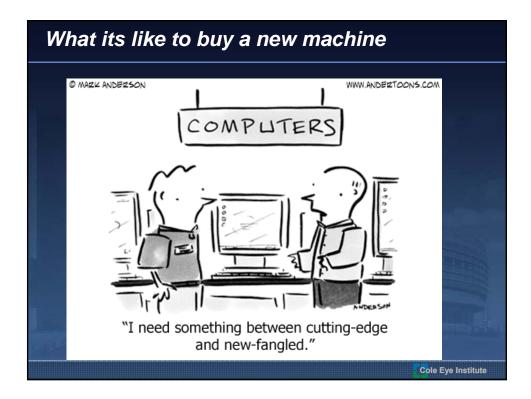


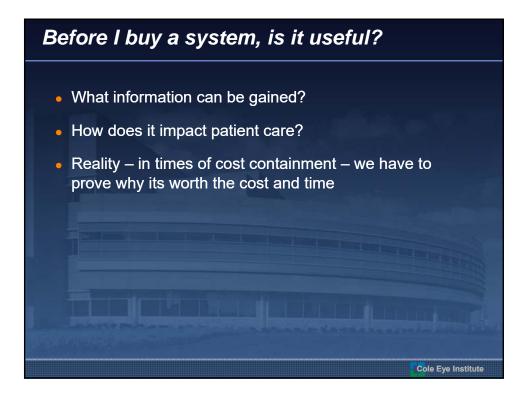
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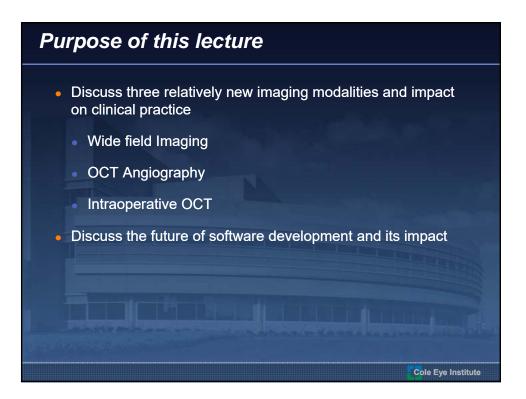


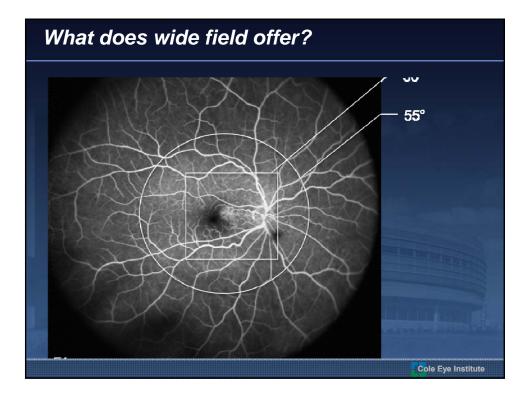




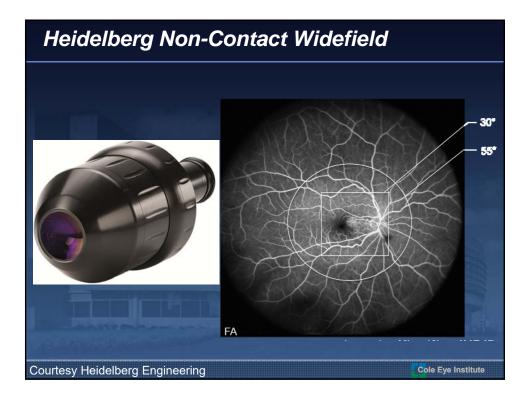


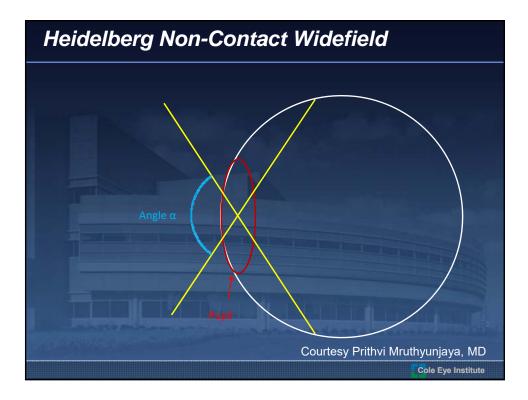


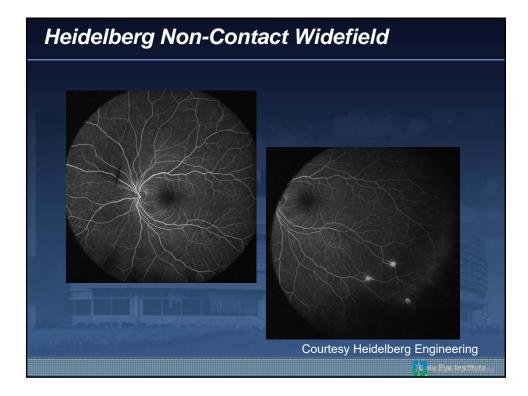


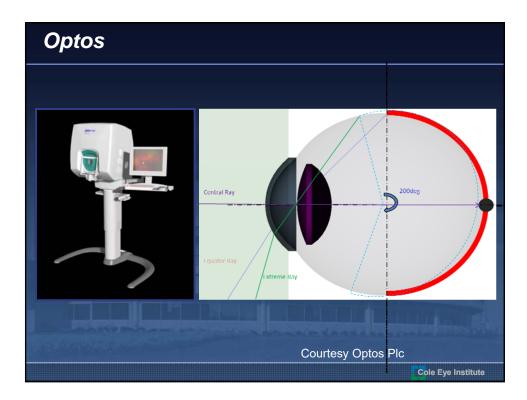


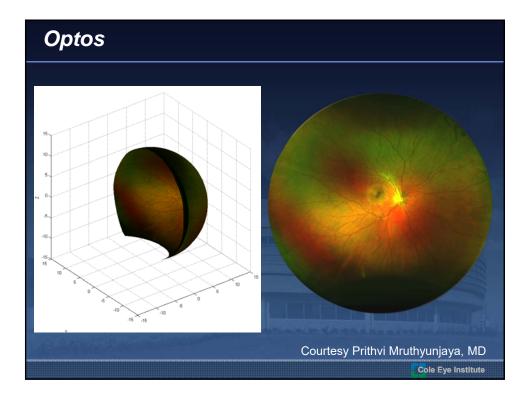


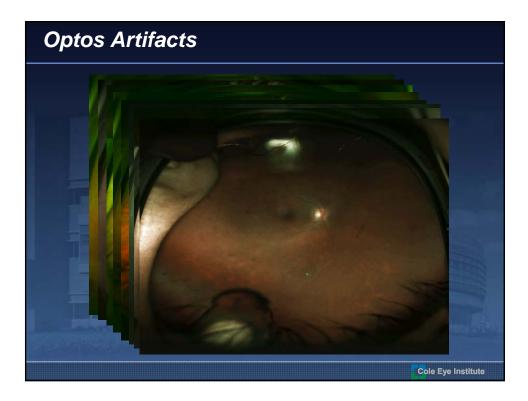


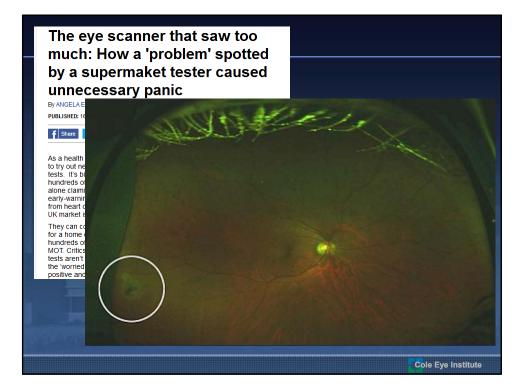


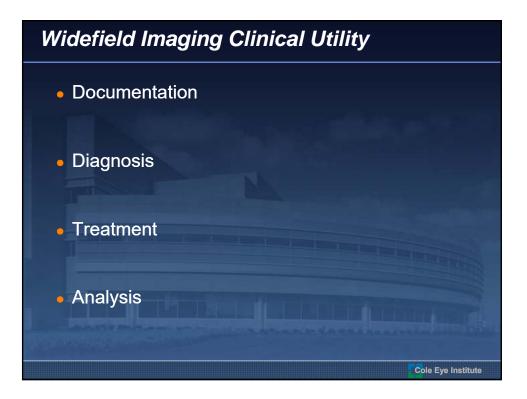




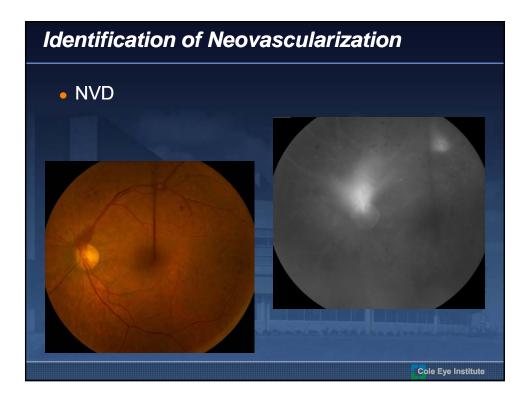


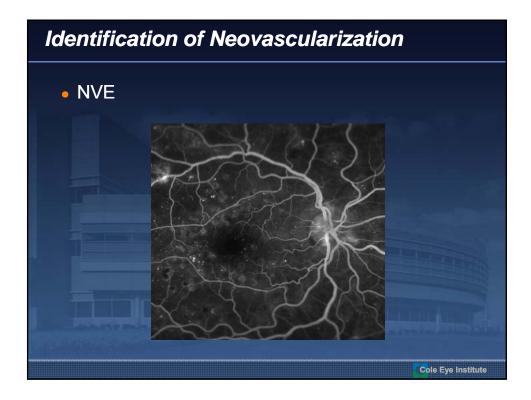


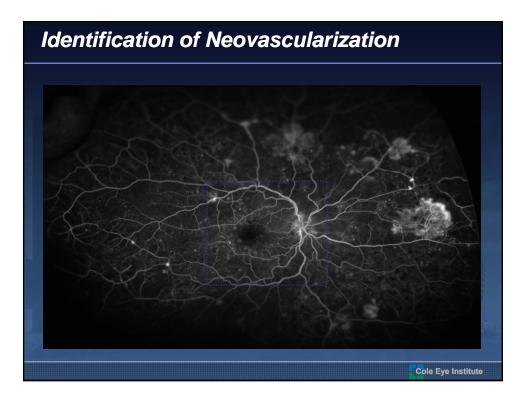


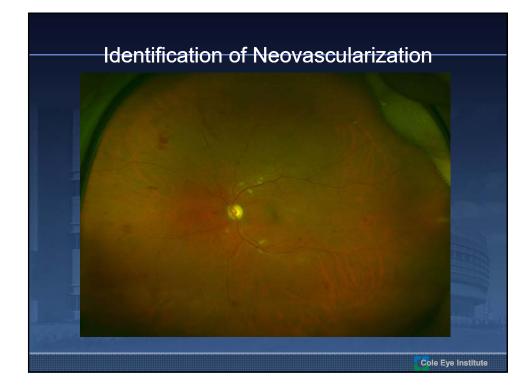


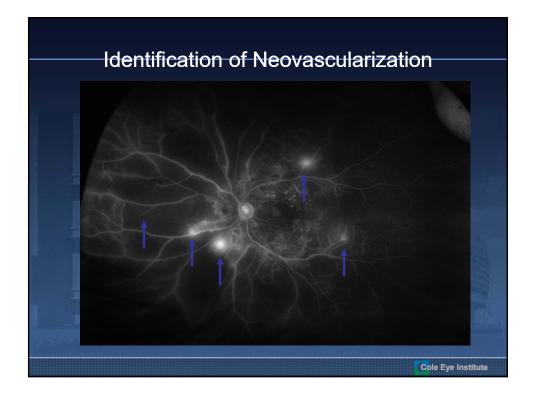


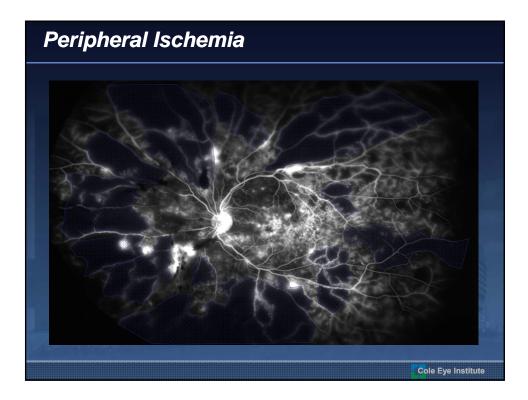


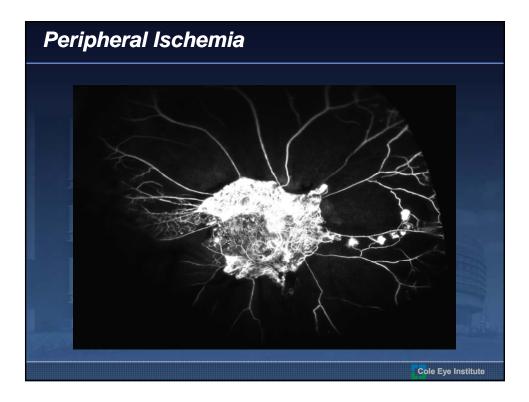




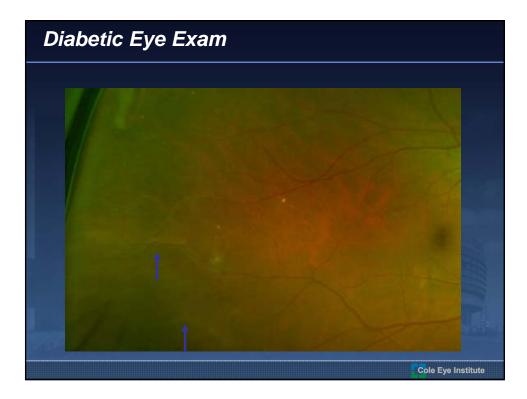








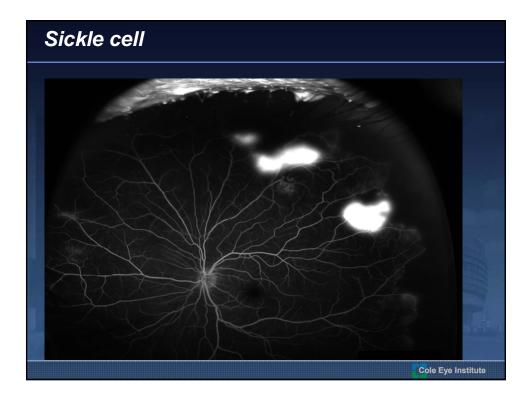


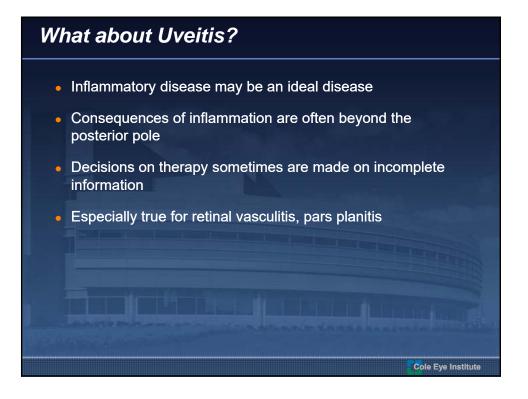


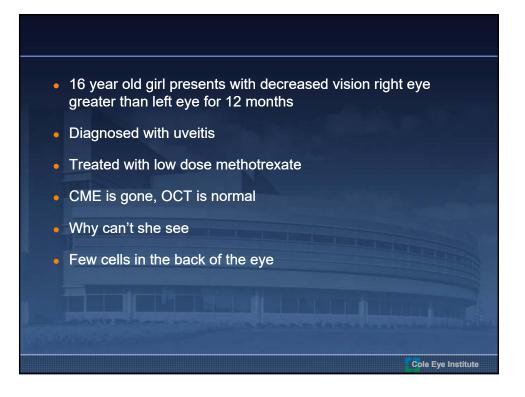


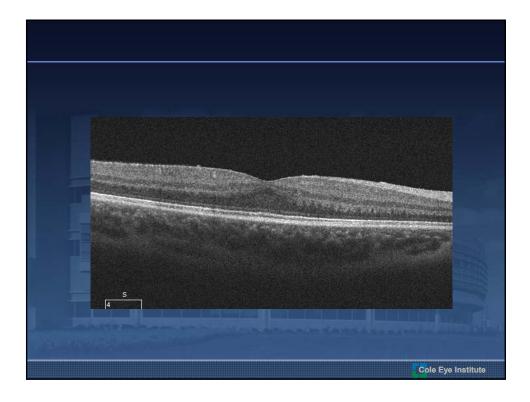






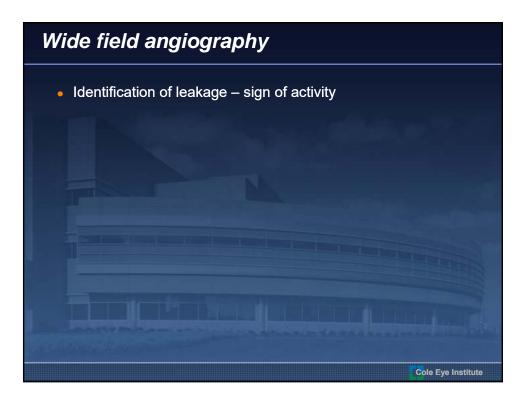


















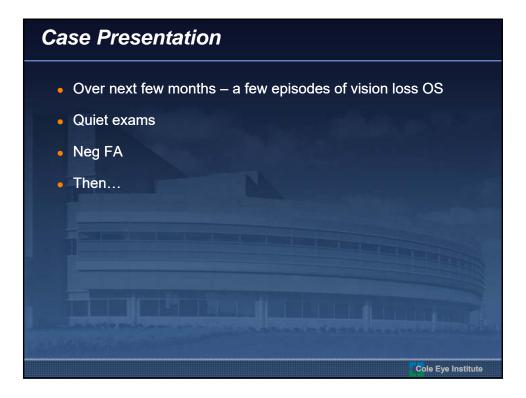


































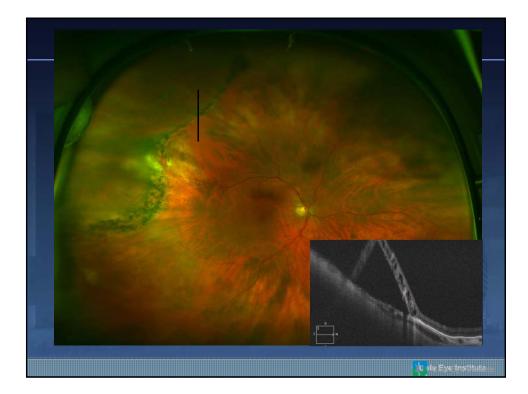


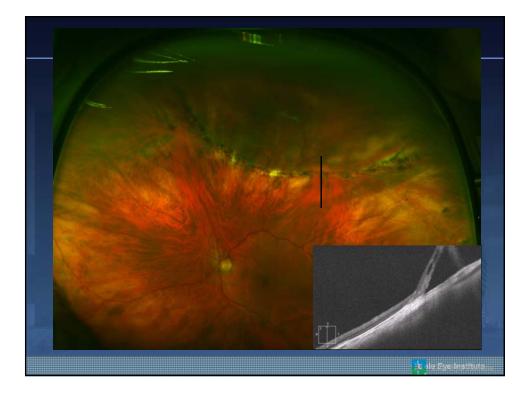




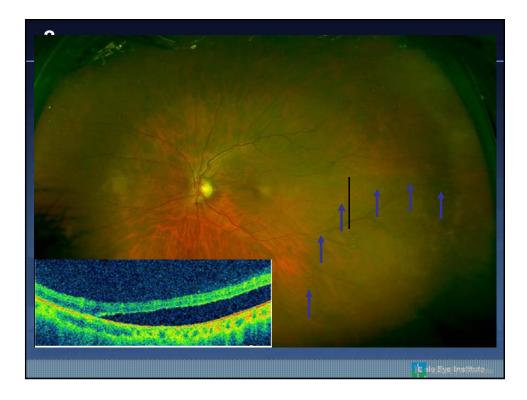


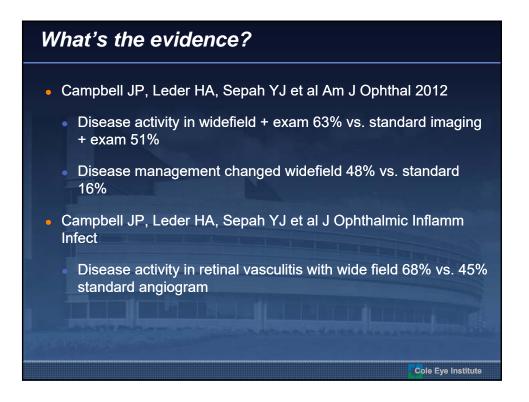
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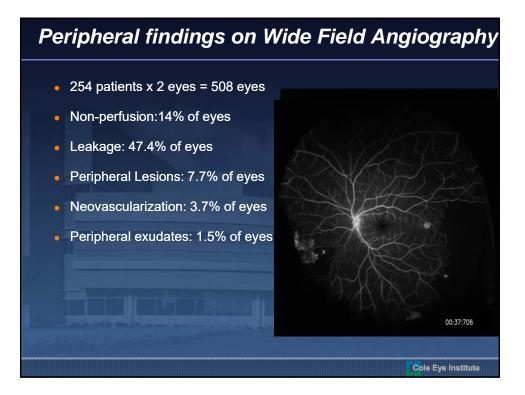


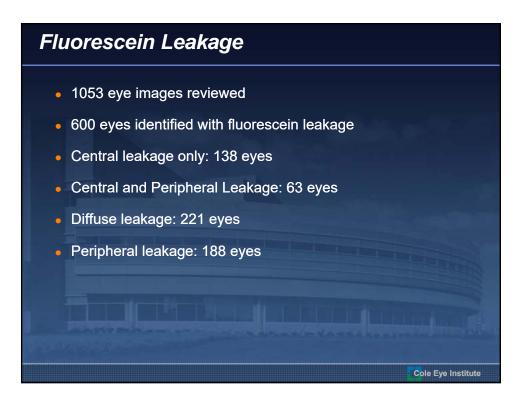


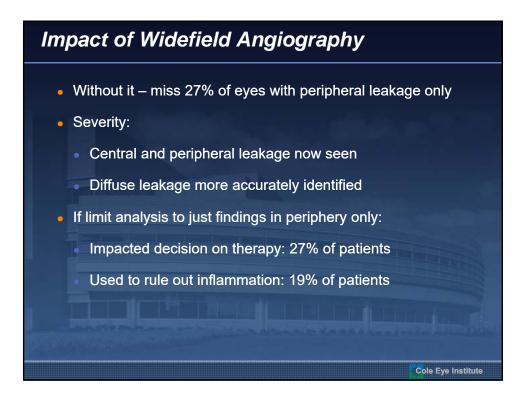


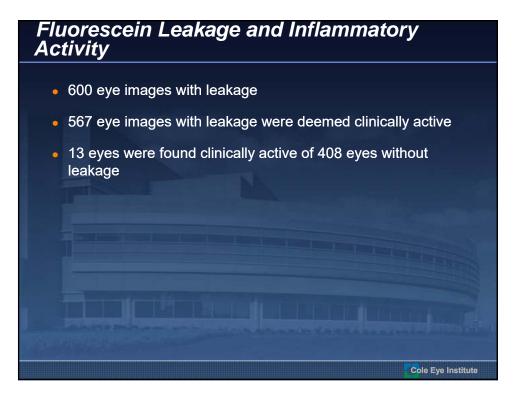












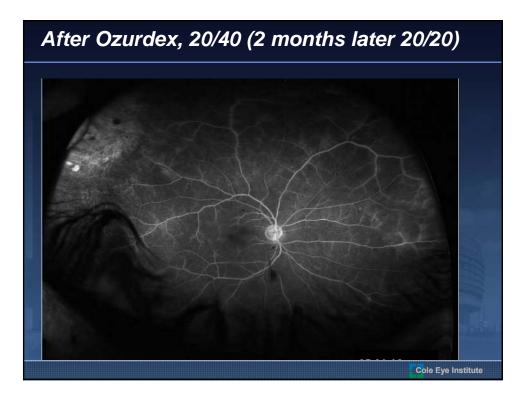
FA Leakage	Active Yes	Active No	
Yes	567	33	
No	13	395	

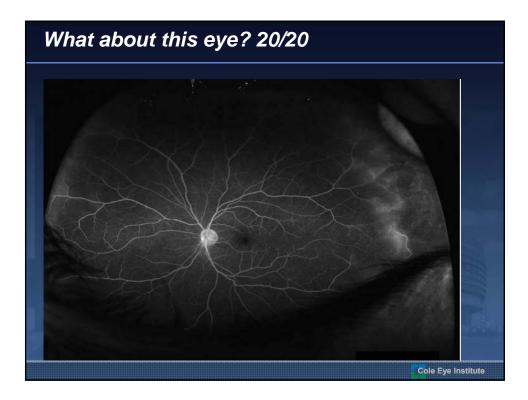
	Leakage on Widefield	No Leakage on Widefield
Mean AC Cell	.22*	.12
Mean Vitreous Haze	.54*	.15
* P < .005		

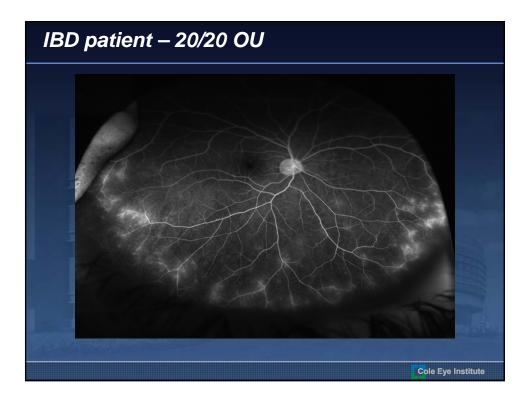


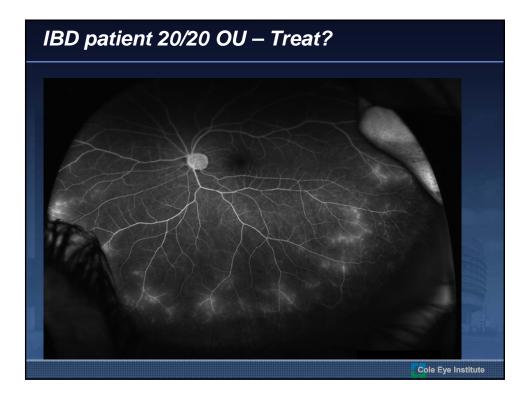
Vision Change in eyes with Baseline Leakage in Retisert Clinical Trials				
		No Leakage at 24	Months	
	Level	Change	P-value	
	Overall	-0.12 (-0.18,-0.07)	< 0.001	
	Retisert Implant Eyes	-0.17 (-0.23,-0.11)	< 0.001	
	Fellow Eyes	-0.05 (-0.15,0.05)	0.36	
	Standard of Care eyes	-0.19 (-0.39,0.00)	0.054	
and the second sec				
Srivastava et a	al ARVO 2012		Cole Eye I	nstitute

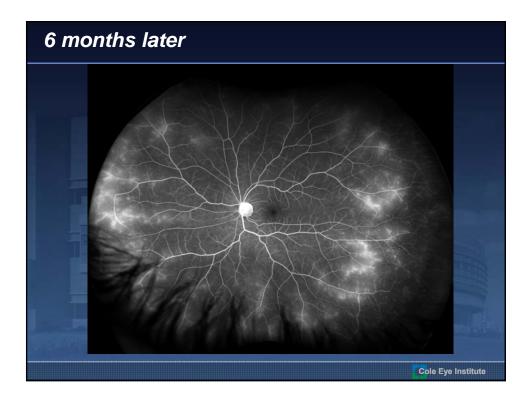


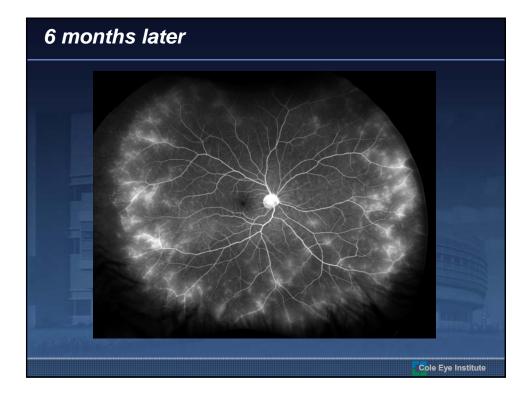


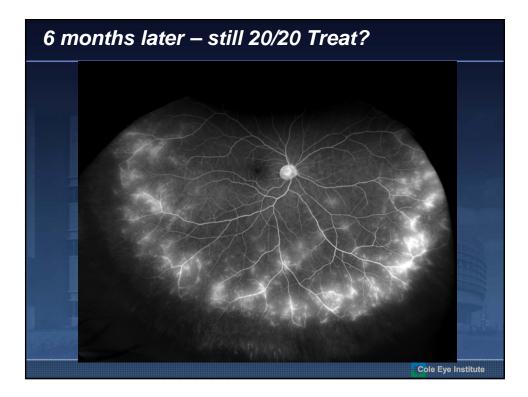


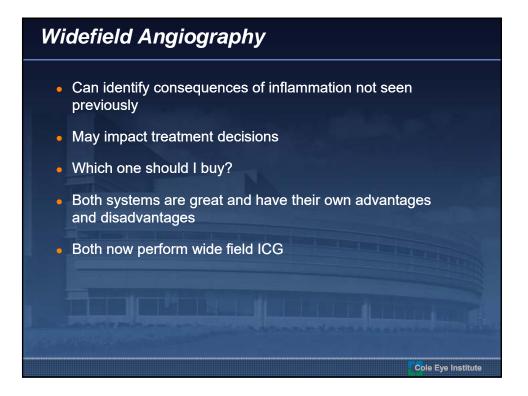


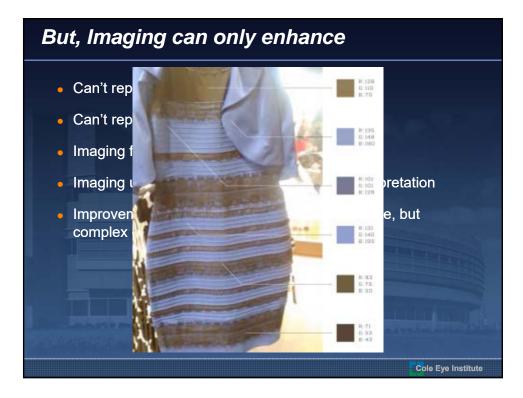


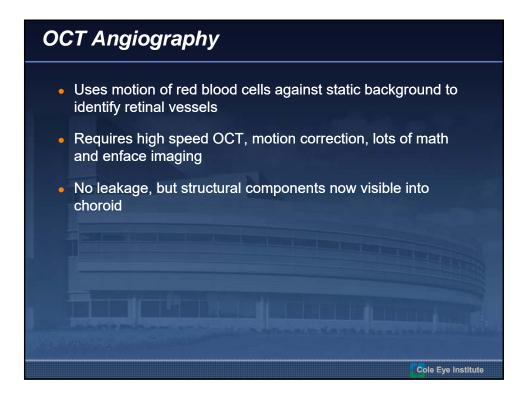




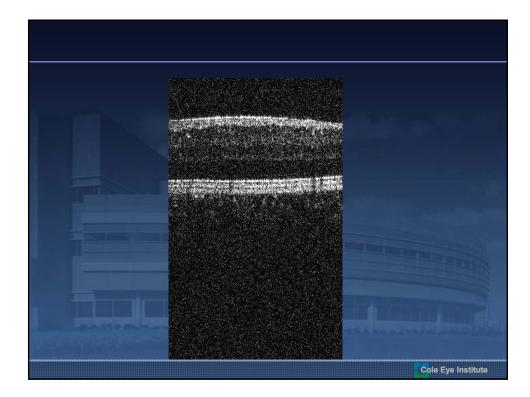


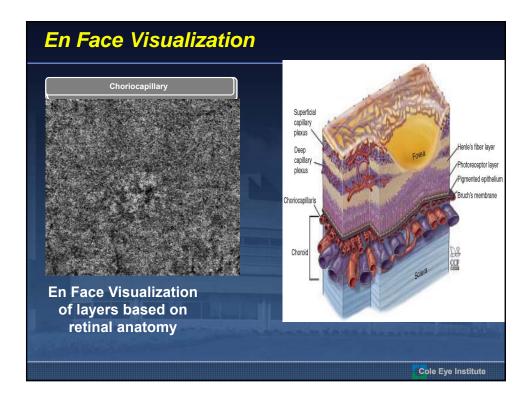


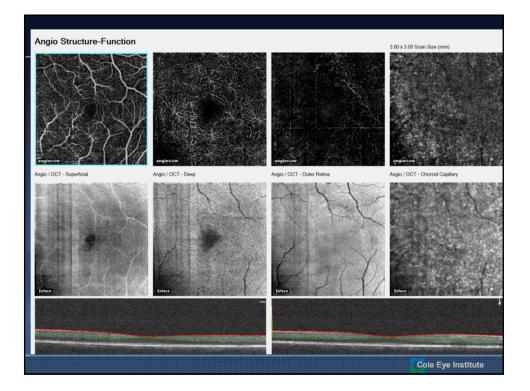




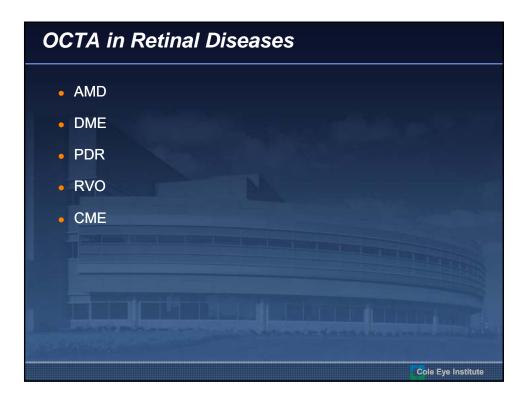


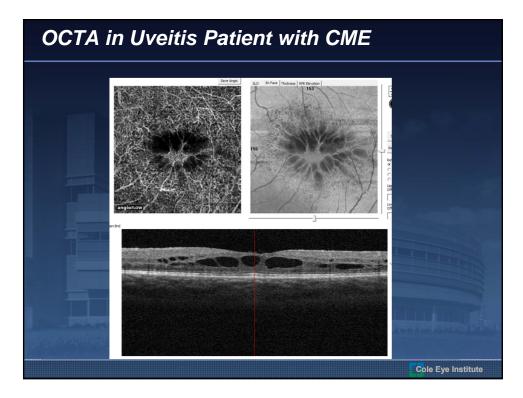


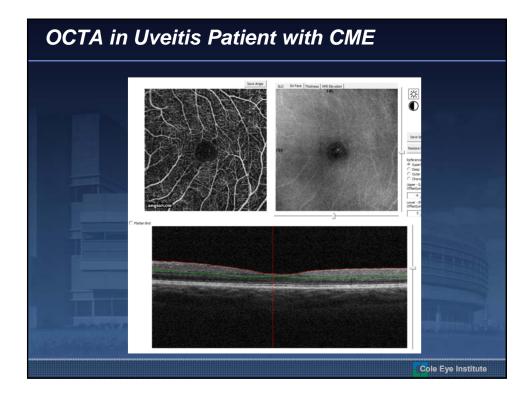


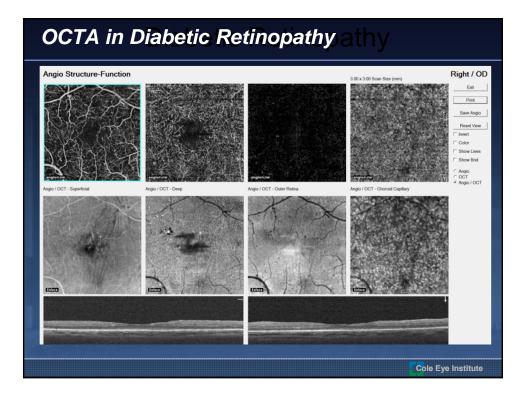


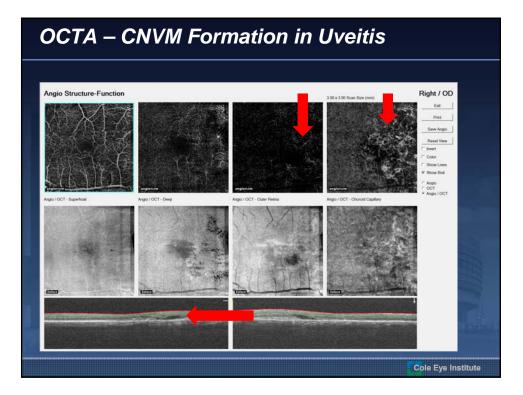
# <section-header> Potential Advantages Advantages No injection High magnification of macular flow characteristics With Enface technology – can analyze flow anatomy in a specific layer Disadvantage No information about leakage Limited quantitative tools (for now) Subject to imaging artifacts

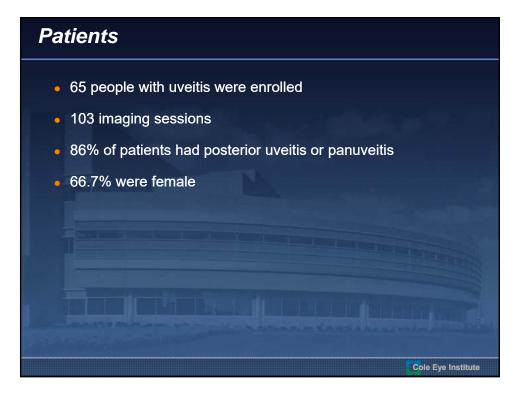


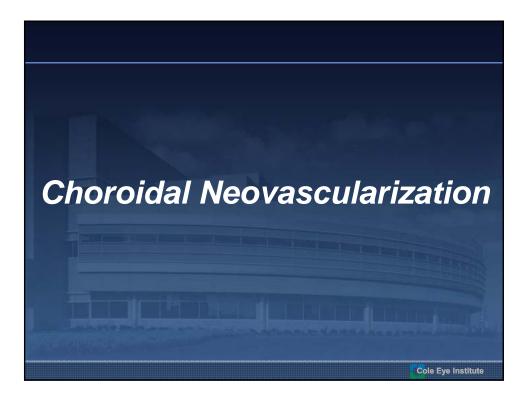


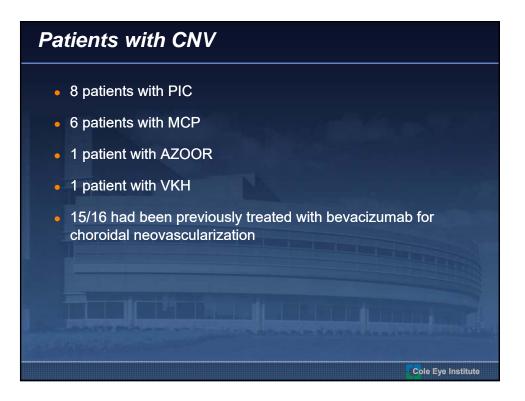


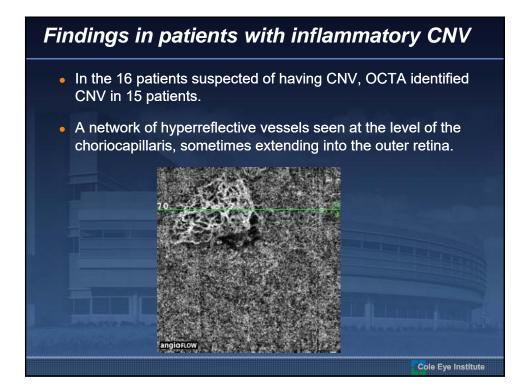


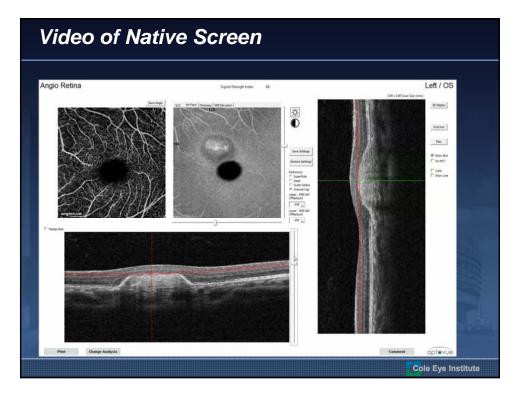


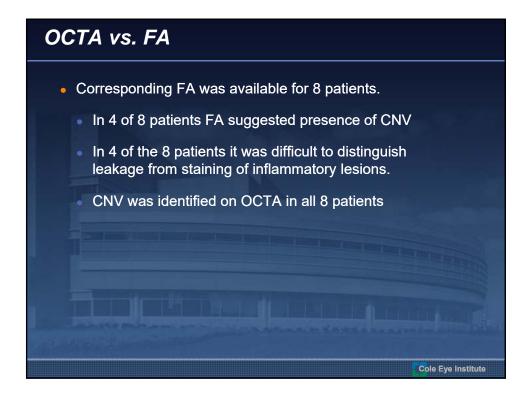


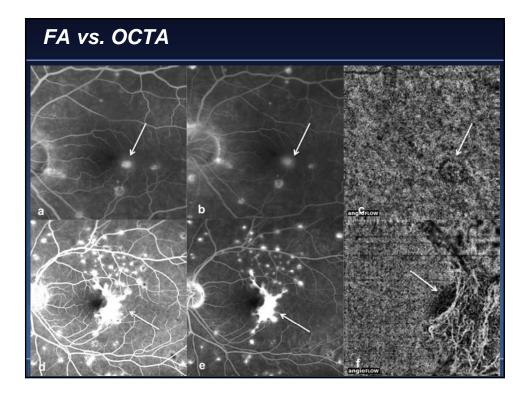


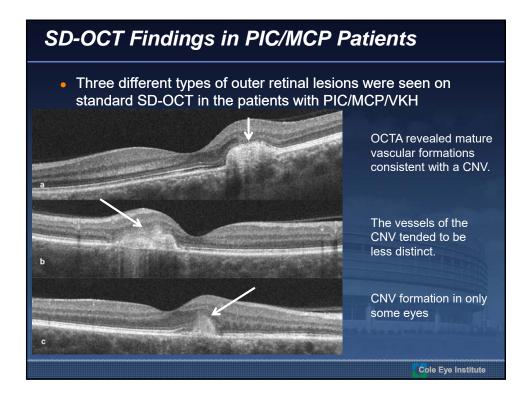


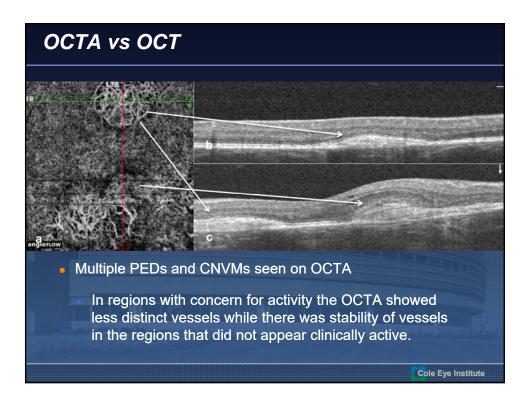


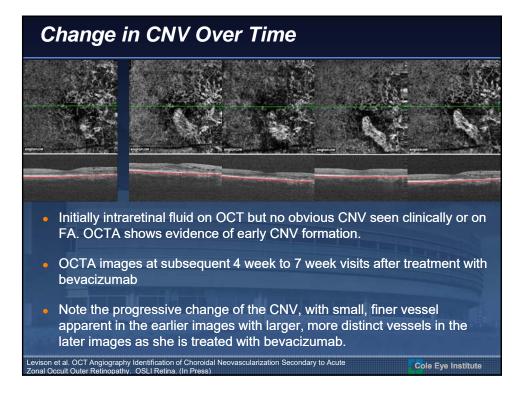


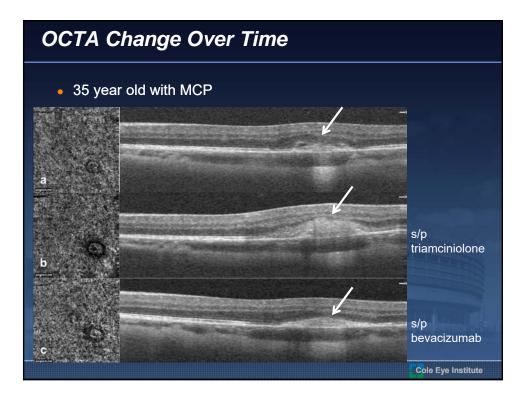


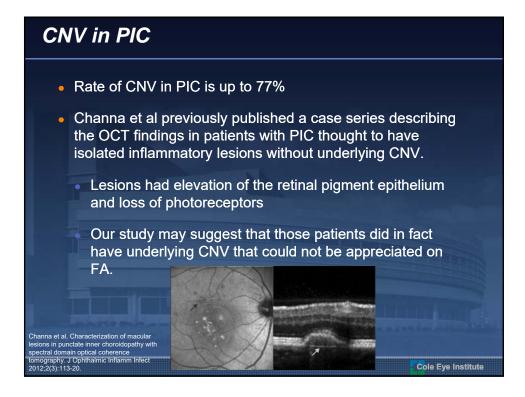


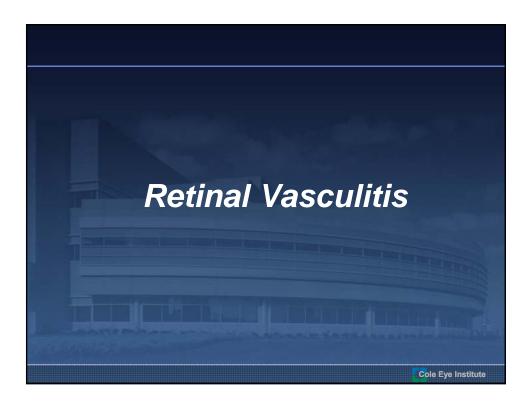


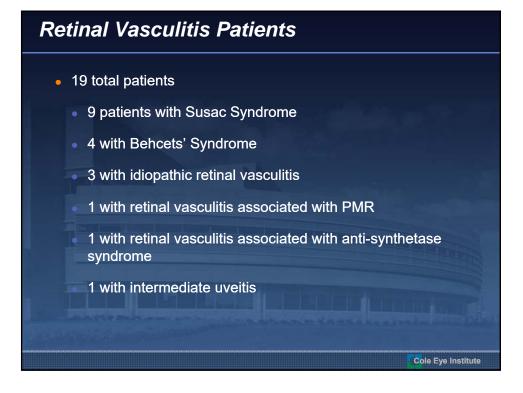


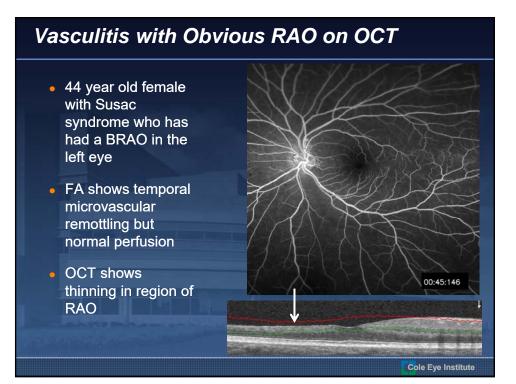


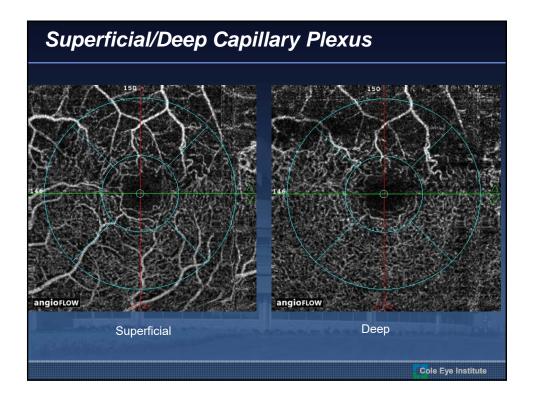


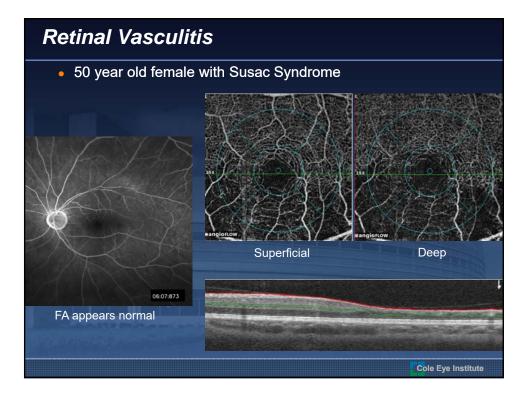


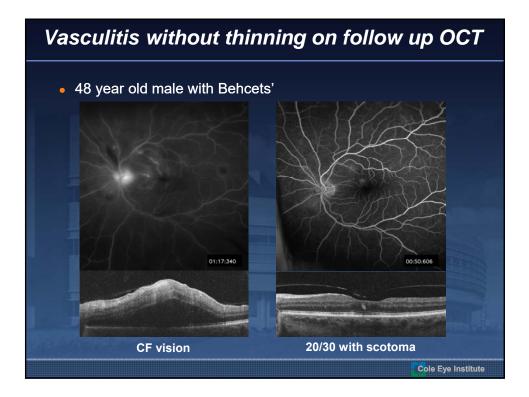


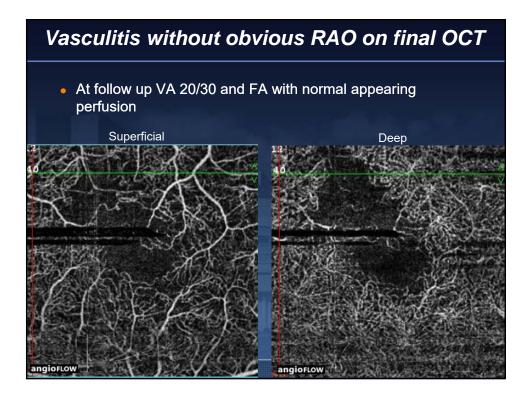


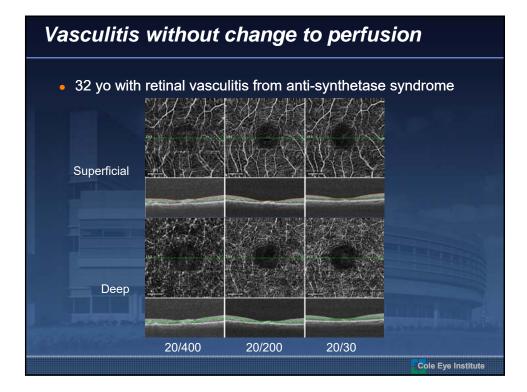


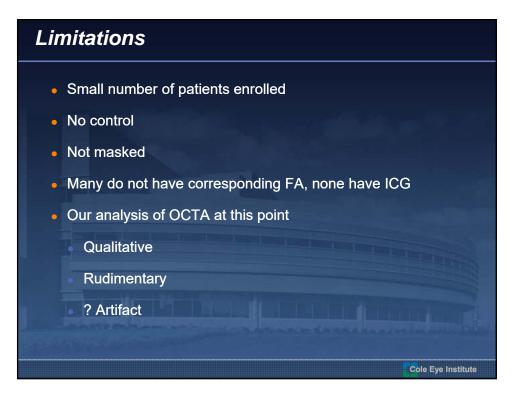




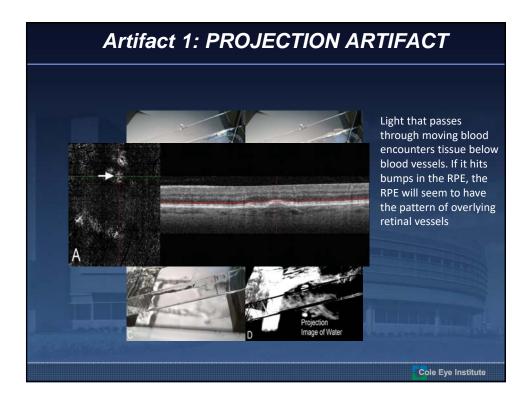


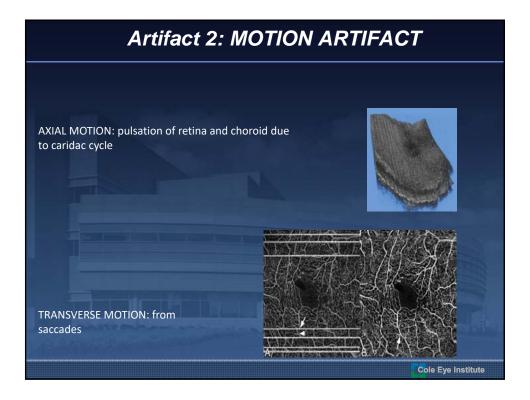


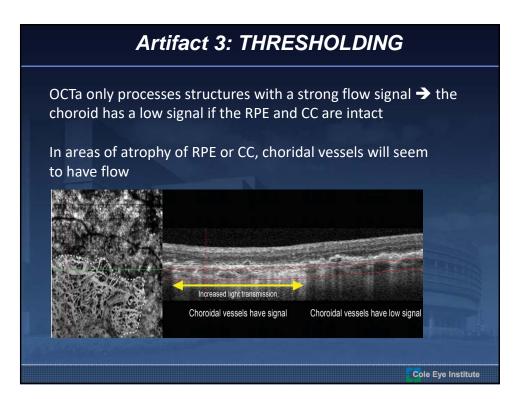




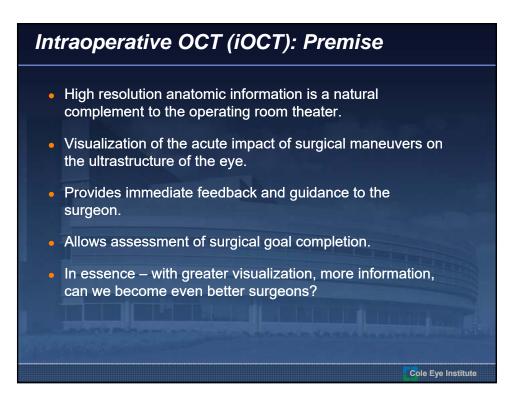


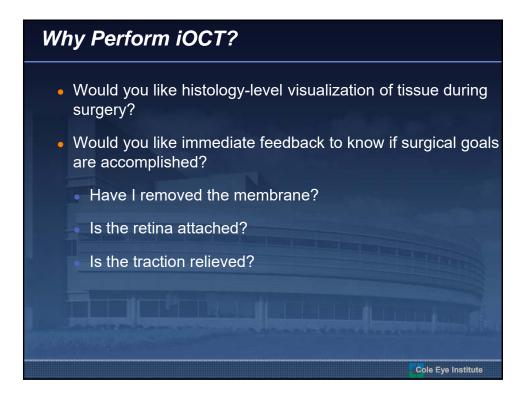


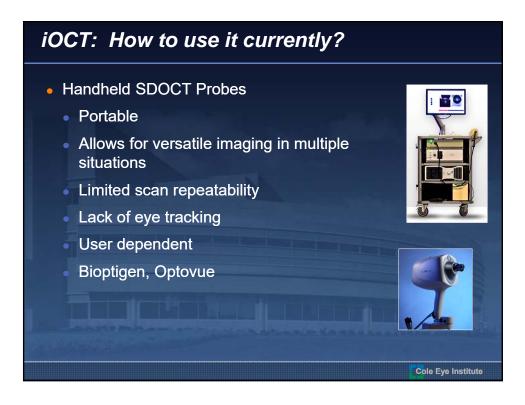




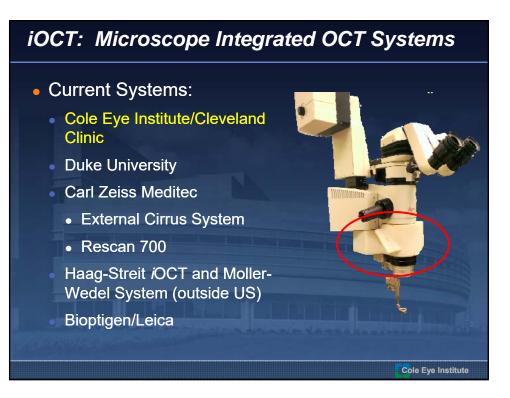








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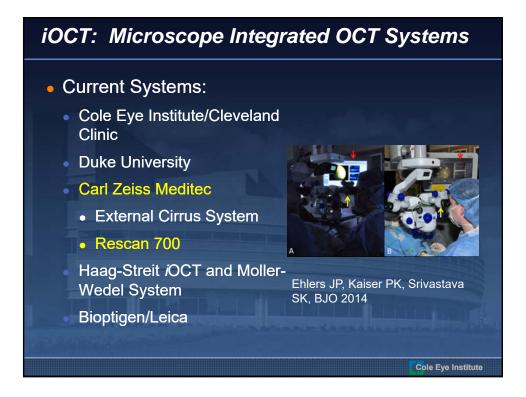


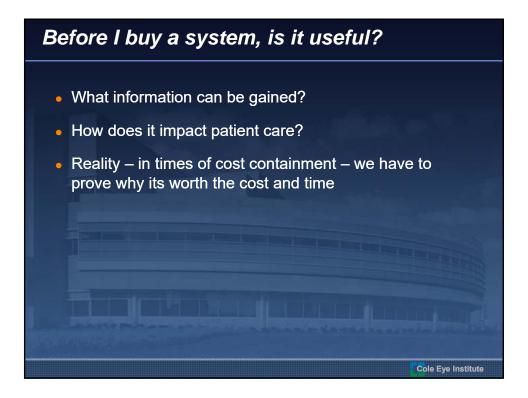
# iOCT: Microscope Integrated OCT Systems

- Current Systems:
  - Cole Eye Institute/Cleveland Clinic
  - Duke University
  - Carl Zeiss Meditec
    - External Cirrus System
    - Rescan 700
  - Haag-Streit *i*OCT and Moller-Wedel System
  - Bioptigen/Leica

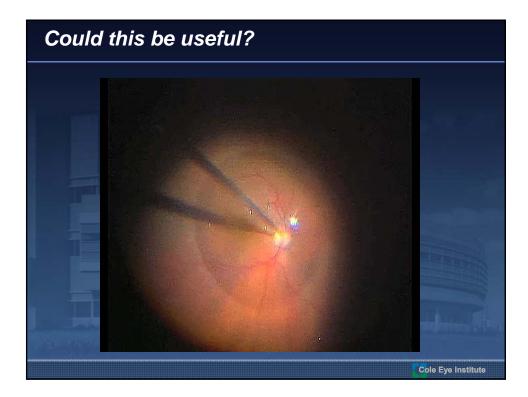


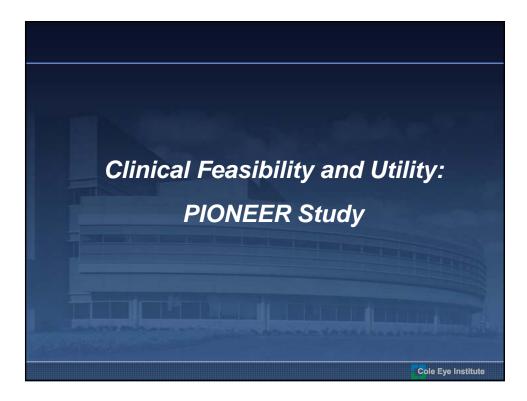
### Cole Eye Institute

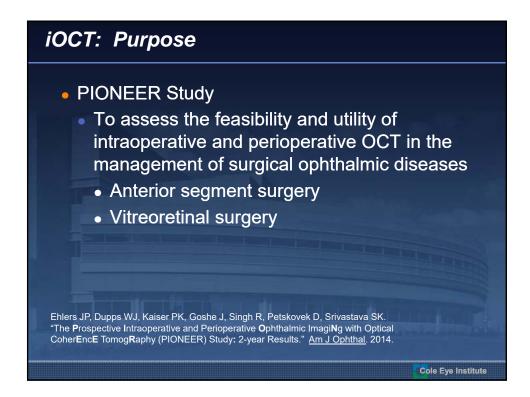












# **iOCT: PIONEER**

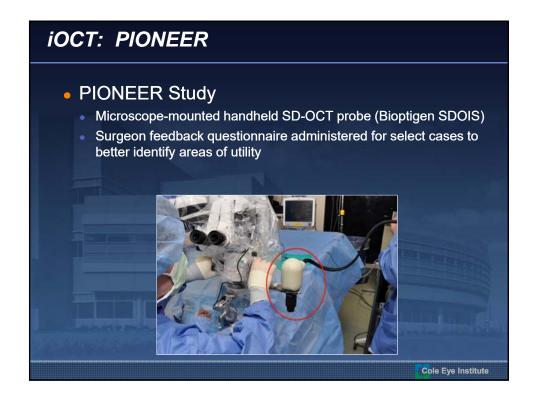
### PIONEER Study

- Cole Eye Institute Ophthalmic Imaging Center
- IRB-approved prospective single-center multisurgeon study for use of *i*OCT across ophthalmic surgery.

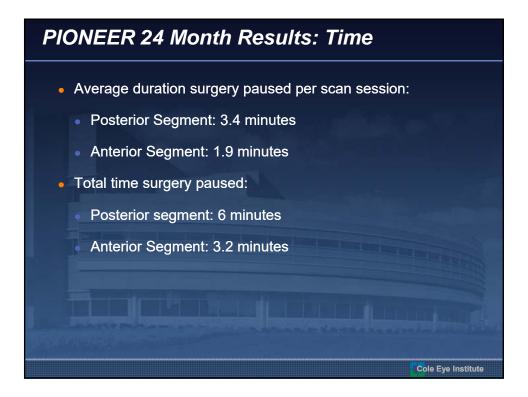
### Includes:

- 6 VR surgeons, 5 anterior segment surgeons
- iOCT research coordinators
- Standardized imaging protocol

Cole Eye Institute

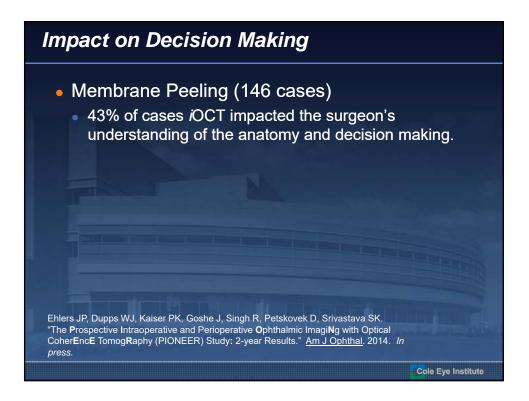


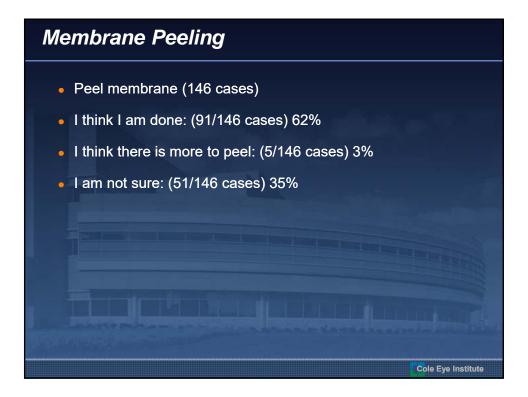
iOCT: 24-Month PIONEER Overall Results					
			Poster	-	
Enrollment	Enrollment 275				
Most Common Preoperative Diagnosis	Fuchs Cataract Bullous Keratopathy Failed DSAEK Keratoconus Other	82 (30%) 66 (24%) 32 (12%) 23 (8%) 16 (6%) 56 (20%)	ERM Macular hole Retinal detachment PDR Other	90 (35%) 58 (23%) 44 (17%) 32 (13%) 32 (12%)	
Most Common Procedures	DSAEK CE/IOL Femto CE/IOL DALK	135 29 37 19	PPV PPV/SB Other	253 15 3	
				Cole Eye Institute	

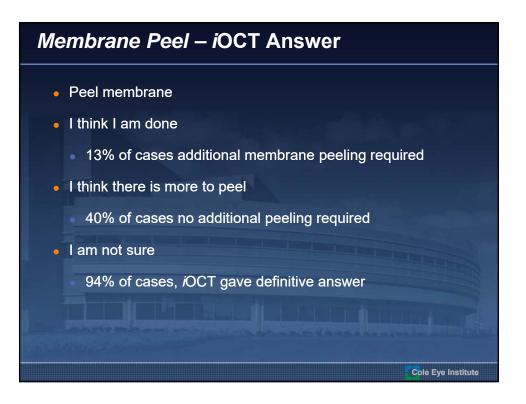


iOCT: 24-Month PIONEER Overall Results				
		Anterior	Posterior	
	Scan Sessions	2 (1-4)	2 (1-5)	
	Total Scans	4 (1-14)	10 (1-24)	
	Total Duration Surgery Paused	3.2 (0.4-17.8)	6.6 (1.0-26.7)	
	Duration surgery paused per scan session	1.9 minutes	3.4 minutes	
			Cole	Eye Institute

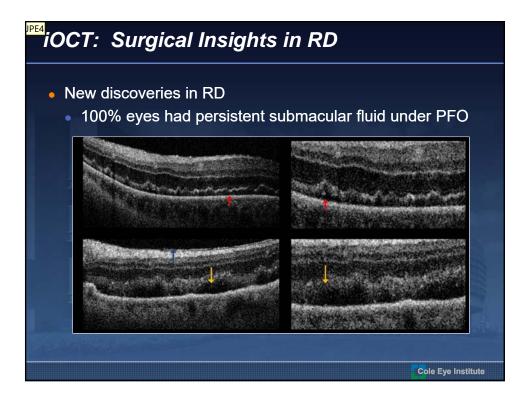
iOCT: PIONEER Adverse Events and Safety			
		Antonion	Destariar
		Anterior	Posterior
	Serious Adverse Events Endophthalmitis	1	0
A. A. S.	Other Adverse Events: Epithelial defect Elevated IOP Hypotony Fibrin Hyphema Vitreous hemorrhage	34 6 0 1 1 3	33 39 8 11 1 6
			Cole Eye Institute



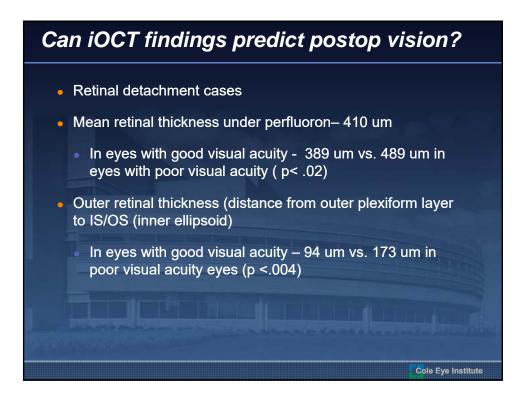


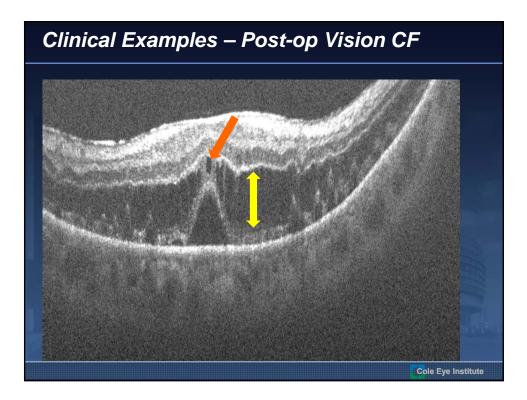


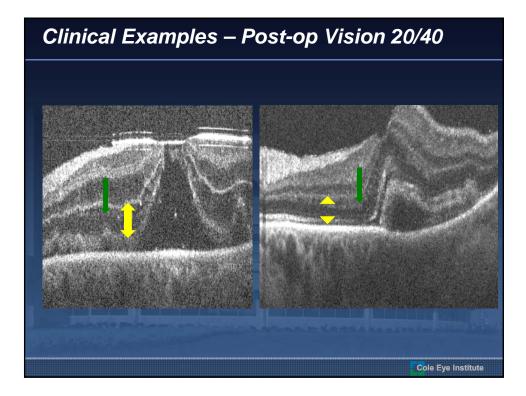




JPE4 Garbo for vitreous schisis VMT for butler Parsley for macula involving RD Justis P. EHlers, 10/16/2011







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## Now that we have an integrated systemshould I buy one

- Lets ask the same questions again
- Does it help?



