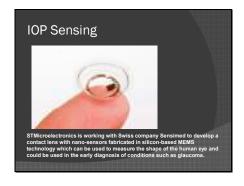
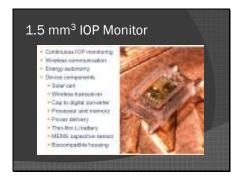


Slide 2

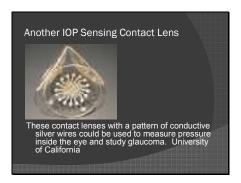




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Slide 5





Photochromic contact lenses Nano sized tunnels that can fill with dye Faster response than photochromic spectacles

Slide 8

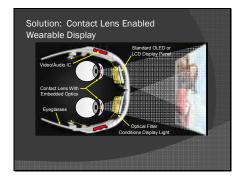






Slide 11

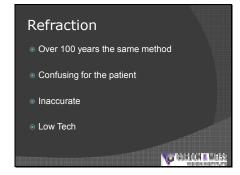






Slide 14





Slide 16







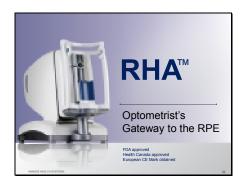
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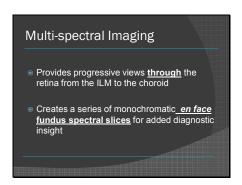
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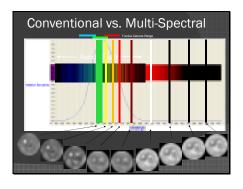




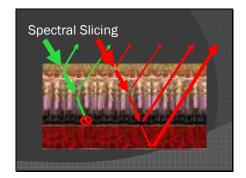


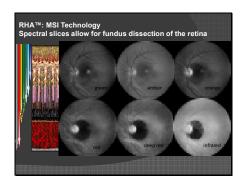
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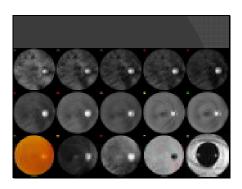




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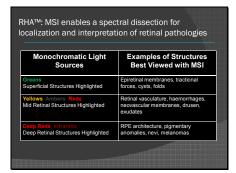


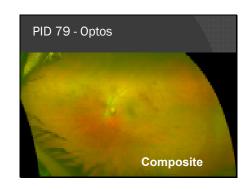


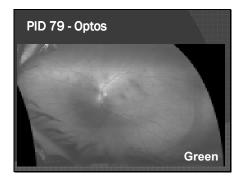


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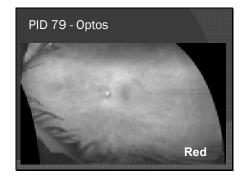
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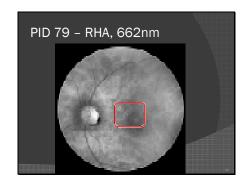


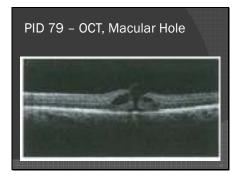




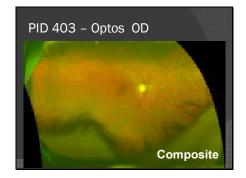
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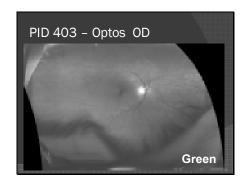


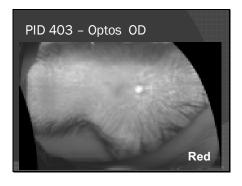




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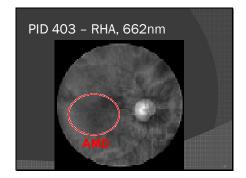


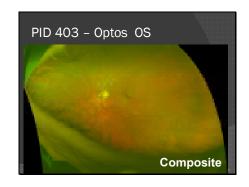






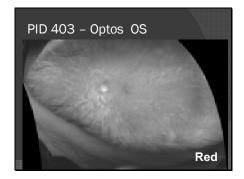
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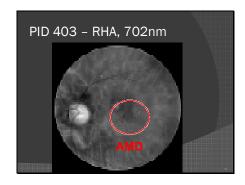




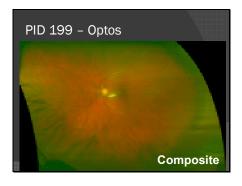


Slide 40



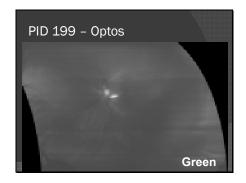


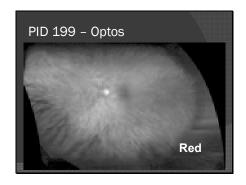
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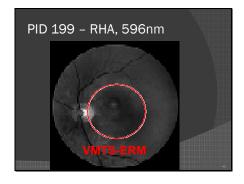


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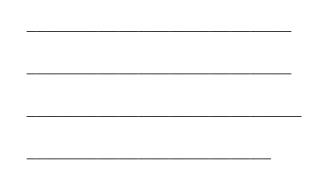
Slide 43







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Return on Investment To date, 18% of my patients screened on the RHA have had suspect areas of interest to pursue further. This has drastically increased the utility of my OCT and I am now selling 4 times more nutriceuticals. Dr. David Geffen

Slide 47



Ted	chnology Overview	
	lutionary tear collection n-invasive	
	es access to untrained users (CLIA waiver) egrates into technician workflow	
	l lab-on-a-chip s than 50 nL required	
Platfo assay	orm for rapid electrochemical biomark vs	er
• Sam	nple-to-Answer in less than 30 seconds	

4~ 40	

Tears as an *in vitro* Diagnostic Platform

- Tears are an ideal matrix for non-invasive testing
- Derived from blood
- · Largely acellular
- Tears known to have thousands of proteins & genes
- Potential for many ophthalmic & non-ophthalmic
- Biomarker normalization using osmolarity
 - Fundamentally corrects for tear film instabilities
 - More accurate reporting of proteins, genes, metabolites
 - Combines multiple markers & payments on a single chip

Slide 50

Tear Hyperosmolarity- the Central Mechanism Causing Ocular Surface Inflammation, Cell Damage and Symptoms in Dry Eye Disease DEWS Report, 2007 International Stimulates a cascade of inflammatory events

Inflammatory tear cytokines and MMPs
Apoptotic cell death
Reduced and altered tear mucins
Reduced lubincation
Up-regulation of HLA-DR expression on surface cells
Disruption of epithelial junctions
Intra-cytoplasmic changes in surface cells
tracks sevently of disease inearly and tracks
response to therapy and is tightly linked to tear film instability

Slide 51

Using Tear Osmolarity in the Diagnosis of Dry Eye Disease

- Normal subjects have a tight band of variability
 Patients with mild/moderate DED show variability
- - Am J Ophthalmol 2011 May



Slide 53

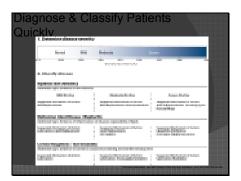


Historical Diagnostic Tests	
Pt questionnaire	
Schirmer Test	
Tear meniscus height	
 Tear break-up 	
NaFl	
 Lissamine Green or Rose Bengal 	
 Phenol thread test 	
 Interferometry (not practicle in clinical setting) 	

 -		

Osi	molarity in	the Diagno	osis of
Dry	Eye Disea	ase	
	Clinical Test	PPV	
	Osmolarity	87%	
	Schirmers	31%	
	TBUT	25%	
	Staining	31%	
	Meniscus Height	33%	
Disease • 45 years pe • Osmolarity	is the "gold stand eer reviewed resear has been added to ker of Dry Eye, indic	ch definition of Dry E	, /e

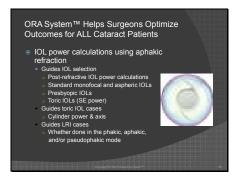
Slide 56





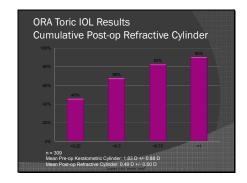


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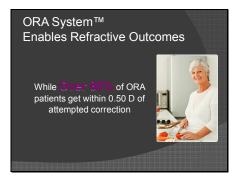




Slide 61







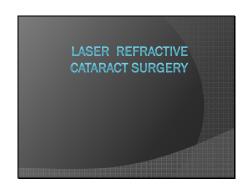
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What to Expect After Surgery - Day One

The vast majority of patients will be seen by the surgeon at day one, but if not:

Look for a quiet anterior chamber
Continue prescribed therapy
(e.g., antibiotics, steroids, NSAIDs)
Check ocular surface

Slide 65

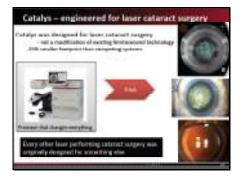






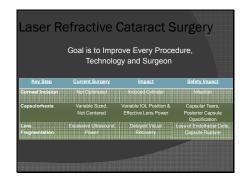
Slide 68







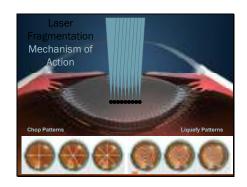
Slide 71



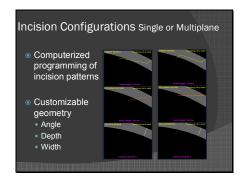
L	enSx® Laser Integrated OCT
	Image-guided Laser Refractive Cataract Surgery
•	Intuitive touch screen Graphic User Interface - for easy customization of all surgical parameters
•	Real-time video imaging for 3D visualization - guides the surgeon while docking - for optimal surgeon control
•	True image-guided surgical planning - enables the surgeon to precisely program size, shape, location of each incision

Traditional Lens Fragmentation Initial phaco technique divides the nucleus into quadrants (Divide and Conquer) Endothelium effects Variations on this technique were developed to reduce phaco power Chop, Quick Chop, Stop and Chop, Flip, etc. Difficult to perform Lens density dependent

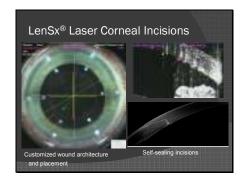
Slide 74



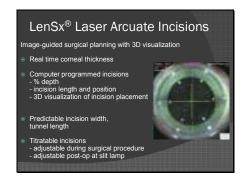
Manual Clear Corneal Incisions
Wound architecture limited by hand-held instruments, manual incisions - imprecise tunnel length and geometry
Frequently require stromal hydration to seal
Can result in cascading intraoperative difficulties - fluid control, anterior chamber maintenance
Recent literature suggests an increased incidence of post-op infection ¹
Incisions may be unstable at low IOPs ²
Then M. Bichtreck. Neuroth Dt. Woe MY Gwell O. Gwell PM. McDonell Jr. Acute protein frames belowing parter largery a systematic reverse the lixerate wide of proteining settlings in 15th 15th 2016. Belower A. Sale W. Protein FA. McDonell PJ. Operatios of creat acuters discovered security after a consultation and using printed coherence temography in the early postsper also period. J Refeat Sing 2008 Jan 24(1):46:9.



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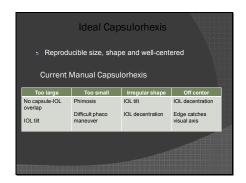






Slide 80





Reproducible, Precise Circular Shape and Diameter Capsulotomy Enables Image-Guided Centration of Capsulotomy

Slide 83

Effective Lens Position (ELPo) Assumed value, from empirical data (A constant and surgeon factor) A significant source of IOL power error, (Norby, 2008) key to post surgery refraction (Hill, 2009) Size of capsulorhexis effects ELPo (Cekic, 1999)

The state of the s	
Patient Expectation	
LenSx [®] Laser technology provides the patient:	
Perceived benefits of a laser procedure Computer controlled precision Procedural predictability	
 A comprehensive, advanced technology approach to lens replacement surgery 	
 A truly premium, value-added surgical experience 	

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Practice Performance LenSx® Laser technology provides the surgeon: Known benefits of femtosecond technology Improved accuracy of all incisions Predictability at every step True image-guided intraocular surgery Opportunity to create optimal wound architecture Precise capsulotomy design for every IOL Astrong value proposition A message that easily resonates with patients and staff

Slide 86

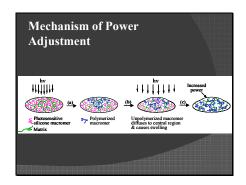


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Why the Light Adjustable Lens? Predictable correction of residual refractive error after lens implantation for optimal distance vision Spherical and cylindrical errors up to 2D Customized presbyopia solutions for near and intermediate vision Adjustable Monovision Customized Near Add Asphericity Control

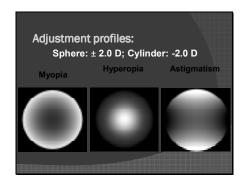


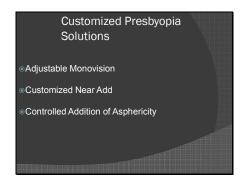
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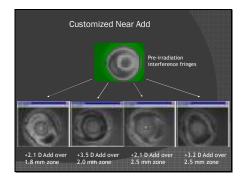




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Slide 94	Control of Asphericity	
	Induction of positive or negative spherical aberration to increase depth of focus	
	aberration to increase depth of focus	
Slide 95	CONCLUCION	
	CONCLUSION The Calhoun Vision Light	
	Adjustable Lens	
	Predictably achieves excellent distance acuity	
	distance acuity	
	A variety of entions to systemize	
	A variety of options to customize near and intermediate	
	uncorrected acuity	
Slide 96		
Silue 90		
	THANK YOU	