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Pacific Northwest (PNW)











Innovation Everywhere

- Treatment options
- Frame technology
- Spectacle lens technology
- Contact lenses
- Diagnostic devices and tools
- Myopia control spectacle lenses
- Optical lab technology

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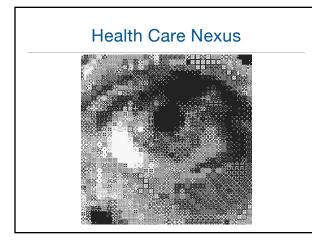
Eye Care Beyond 2022

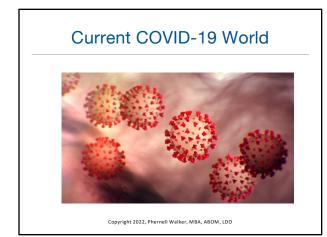
 $_{\scriptscriptstyle \rm \oplus}~$ Holistic patient care in a health care team approach

- Outcomes based vs. fee for service
- Reliance on technology
- Centralized data aggregated to give a complete picture of you
- Predictive analytics anticipate your health care needs

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Leverage Technology

- Doctors begin to embrace telemedicine
- Manufactures will begin to expand diagnostic equipment technology capabilities
- New technology will be introduced:
 - expanded home testing
 - agnostic data capture and share capabilities

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Telemedicine

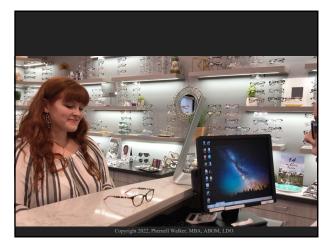
- Embrace remote health care (i.e. eye care, etc...)
- . Ability to care for patients from afar is necessary
- . Usage Codes G2012 & G2010 (synchronous and asynchronous modality)
- Digital Examinations 99421, 99422, 99423 (based on exam duration)
- $_{\rm e}~$ Medical codes with modifiers (GT, 95 and GQ) 99202, 99203, 99204, 99212, 99213 and 99214
- Appropriated \$8.3 billion dollars (i.e. lab testing, vaccine research, telemedicine services)
- " Waiver 1135 March 6, 2020 federal government removes obstacles to remote care
- . Relaxed HIPAA
- Expanded platforms for seeing patients
- Need to care for patients and public health supersedes privacy

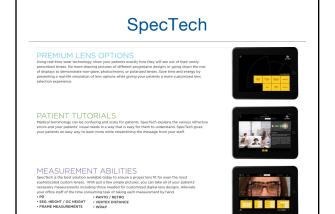
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- Medical (<u>"Non-refractive"</u>) telemedicine
- Fundus Photography
- OCT
- 。 OCT-A
- Eye Tracking Systems
- Dry Eye Management
- e AMD

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Fundus Photography

Advanced diagnostic imaging devices use DICOM (Digital Imaging and Communications in Medicine) format.

- DICOM allows for software assisted automated quantitate and qualitative measurements (based on modeling)
- Beyond 2022 we will begin to see software aid doctors in diagnosis using millions of comparisons in a matter of seconds in a centralized cloud data base

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A View Behind the Curtain

- OCT evaluates the structure of the retina-it provides an invivo analysis of both the retinal and choroidal anatomy
- OCT-A does not take replace standard OCT, but provides a different dimension
- OCT-A correlates with a patient's visual function by providing a functional analysis.
 - Reduced peripapillary perfusion correlates with focal defects on visual, RNFL and GCC thickness
 - Using them together, we get a structural and functional analysis side by side

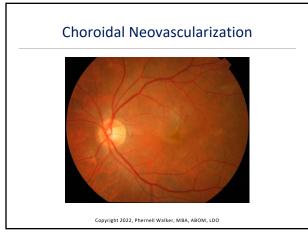
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A View Behind the Curtain

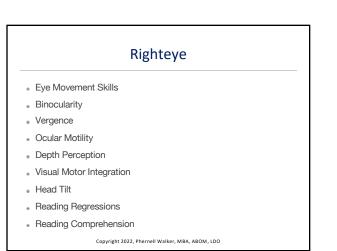
Dual-modality imaging system augments optical coherence tomography angiography to conventional **OCT** to quickly visualize blood-flow within the retina and layers of choroidal neovascularization (CNV).

- OCTA 3D view of all capillary beds of the retina
- Visualize the presence or absence of flow in the blood vessels in 3D
- Eliminates the need of histology slides in a lab
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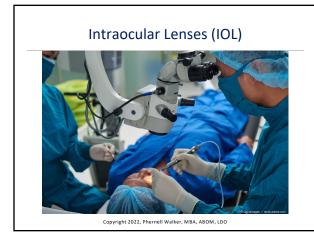




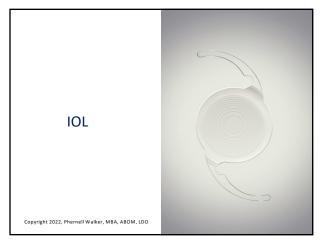


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	Head Movement	Grade Level E		
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	- / ·	Regressions/100 words (8)	41	15
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		Disparity Between Eyes (nm)	25	5
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AcrySof IQ PanOptix Trifocal IOL

- Advanced IOL technology allowing patients comfortable vision at distance, near and far
- PanOptix IOL intermediate focal point of 60 cm (more natural armslength) to reduce the need for intermediate and reading glasses post cataract surgery
- Availability spherical & toric
- Refractive power can be adjusted up to +/- 2.00 diopters sph. & 3.00 diopters of Cyl. The lenses can be irradiated using a near UV-light mounted to a slit lamp to change the lens' shape (lens polymerization)

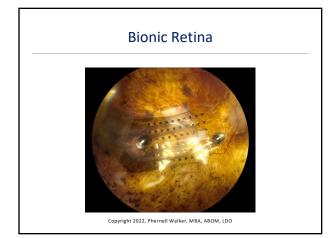
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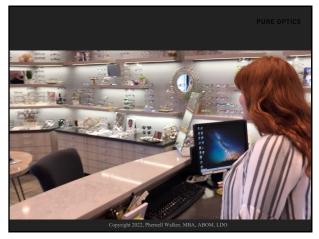
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Retinitis Pigmentosa Implant

- . Retina implants bring patients out of the dark
- . Delivering sight to RP patients and other conditions
- Beyond 20/20 we will see vision restored for many conditions

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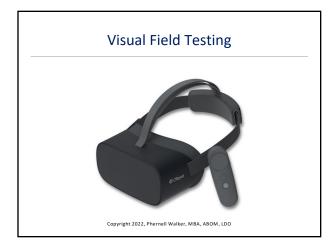




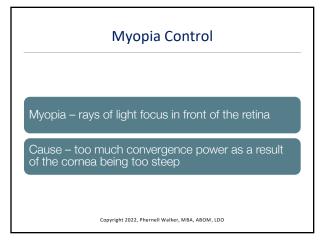


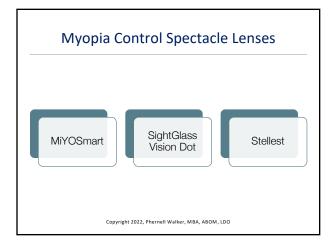
















MiYOSmart (D.I.M.S) Technology

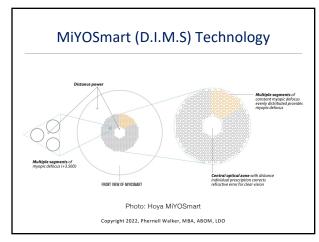
- Defocus Incorporated Multiple Segments
- Lenslets incorporate +3.50 D of myopic defocus in the periphery

Category	Availability
Power	Plano to -10.00 Sph. up to -4.00 D. Cyl.
Substrate	Polycarbonate
Index	1.586 _n
Design	Hundreds of small segments honeycomb structure
Central Clear Zone	9.4 mm

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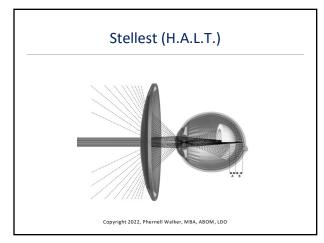
SightGlass Vision Dot Lenses

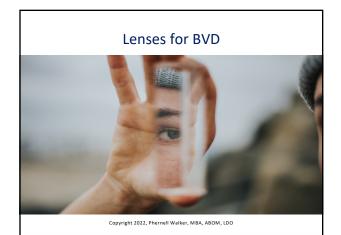
- Peripheral contrast modulation
- Uses diffusion optics technology
- Concept based on reducing the contrast detected by the retina
- Designed to slow axial elongation progression
- These lenses utilize thousands of light-scattering elements to reduce or diffuse light in order to reduce retinal contrast
- · Waiting for FDA approval

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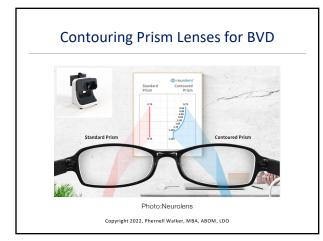
	Stellest (H.A.L.T.)		
Stellest (H.A.L.T.) – Highly Aspheric Lenslet Technology			
Category	Availability		
5	Disease do 00 Osta lum ta 100 D. Out		
Power	Plano to -10.00 Sph. up to -4.00 D. Cyl.		
Power Substrate	Plano to - 10.00 Spn. up to -4.00 D. Cyl. Polycarbonate		
Substrate	Polycarbonate		





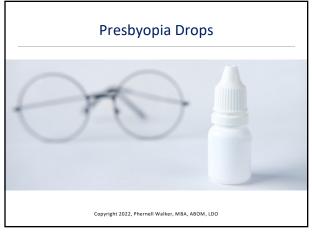
Binocular Vision Dysfunction Symptoms

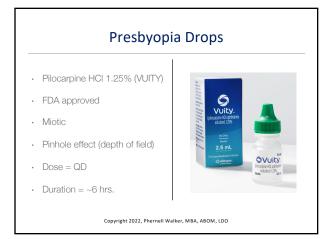
- Attention or concentration issues
- · Balance and mobility issues
- · Double vision
- Eyestrain
- · Headaches
- Poor hand-eye coordination
- · Reading or learning difficulties

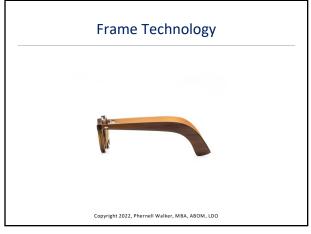






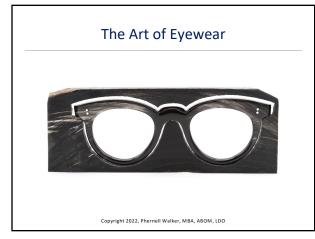












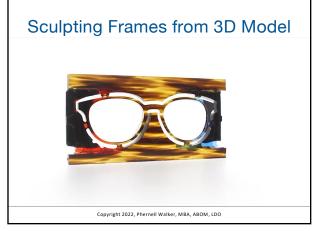


Picasso Inspired Design

- Sustainable plant based materials
- $_{\scriptscriptstyle \rm e}~$ Biometric designed frame is cut exactly to match the patient exactly
- 3D milled frames delivering a perfect fit zero adjustments needed
- $_{\scriptscriptstyle \Theta}$ $\,$ Eliminates stress as the curves are formed (wrap, temple angle, etc...)
- 100% customized
- Reduces waste by 80%

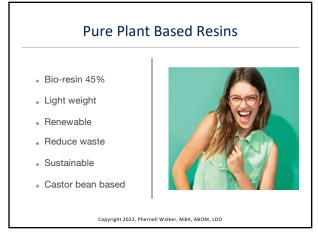
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Mirror - Mirror

PD - Binocular / Monocular / Distance / Near

- Pantoscopic
- Panoramic
- ⊕ BVD
- Box measurements
- . Measurements while wearing sun-wear
- No frame clips or prisms
- e PC or Mac driven

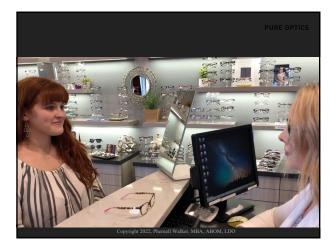
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People Want Choice

- Everyone wants the power of choice
- Our goal is to educate patients on their treatment options and allow them to decide
- Visualizing lenses can be difficult for the general public

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Optical Lab Technology

- Beyond 3D to 4D
- Measuring lens power lab computers are now measuring lens thickness to determine refractive power across thousands of reference points
- Ophthalmic lens accuracy- dioptric power is limited
- Lens thickness measured in hundredths of a diopter

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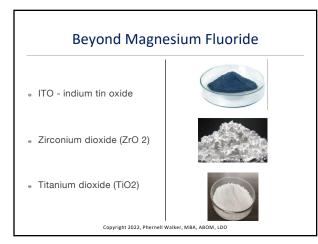
Thin Film Expansion

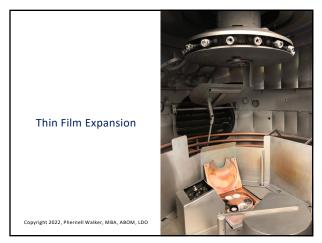
- Substrate matching
- "Glass-like" scratch resistance
- Lens encapsulation
- Trifecta heat resilience, hydrophobic and oleophobic
- Blue light blocking capabilities
- Nano optics each layer can respond to broader bands of light

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Take Aways

- **Opportunities** what can you do to better serve your patients, differentiate your practice, expand your scope and increase revenues? What provides for the best ROI?
- Unexpected becomes expected challenge your practice to use digital lenses, advanced thin films and photochromic on all patients. People want the best, deliver on their desire.
- Educate your team on these and other technologies on the horizon
- Lights, camera, action after answering the above, put a plan in place with a time-line and execute!

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