

**STATE BOARD OF OPTOMETRY**

2450 DEL PASO ROAD, SUITE 105, SACRAMENTO, CA 95834
P (916) 575-7170 F (916) 575-7292 www.optometry .ca.gov



Continuing Education Course Approval Checklist

Title:

Provider Name:

☒ Completed Application

Open to all Optometrists? ☒ Yes ☐ No

Maintain Record Agreement? ☒ Yes ☐ No

☒ Correct Application Fee

☒ Detailed Course Summary

☒ Detailed Course Outline

☒ PowerPoint and/or other Presentation Materials

☐ Advertising (optional)

☒ CV for EACH Course Instructor

☒ License Verification for Each Course Instructor

Disciplinary History? ☐ Yes ☒ No

Cashiering and Board Use Only			
Receipt #	Payor ID	Beneficiary ID	Amount
1-3322	5394304	5394304	\$750

BUSINESS, CONSUMER SERVICES, AND HOUSING AGENCY

GOVERNOR EDMUND G. BROWN JR.



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CONTINUING EDUCATION COURSE APPROVAL APPLICATION

\$50 Mandatory

Pursuant to California Code of Regulations (CCR) § 1536, the Board will approve continuing education (CE) courses after receiving the applicable fee, the requested information below and it has been determined that the course meets criteria specified in CCR § 1536(g).

In addition to the information requested below, please attach a copy of the course schedule and topical outline of the subject matter. Applications must be submitted 45 days prior to the course presentation date.

Please type or print clearly.

Course Title <u>"Taste of the Islands CE"</u> <u>Buried Treasure: Connecting the Dots</u> <u>to treating Binocular misalignment</u>	Course Presentation Date <u>8:00 AM - 4:30 PM</u> <u>04/30/2017</u>
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Course Provider Contact Information

Provider Name <u>Coastal Vision Medical Group</u> <u>Gina</u> <u>Valdemar</u> (First) (Last) (Middle)
Provider Mailing Address Street <u>243 S. Main St. #100</u> City <u>Orange</u> State <u>CA</u> Zip <u>92660</u>
Provider Email Address <u>gina.valdemar@coastal-vision.com</u>
Will the proposed course be open to all California licensed optometrists? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Do you agree to maintain and furnish to the Board and/or attending licensee such records of course content and attendance as the Board requires, for a period of at least three years from the date of course presentation? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

Course Instructor Information

Please provide the information below and attach the curriculum vitae for each instructor or lecturer involved in the course. If there are more instructors in the course, please provide the requested information on a separate sheet of paper.

Instructor Name <u>Gary</u> <u>Lovcik</u> (First) (Last) (Middle)
License Number <u>8273 TP6</u> License Type <u>OD</u>
Phone Number <u>(714) 746-9679</u> Email Address <u>gina.valdemar@coastal-vision.com</u>

I declare under penalty of perjury under the laws of the State of California that all the information submitted on this form and on any accompanying attachments submitted is true and correct.

Signature of Course Provider

Date

3-17-17



March 23, 2017

State Board of Optometry
2450 Del Paso Road, Ste. 105
Sacramento, CA 95834

RE: Late submission of CE course approval-Taste of the Islands 8 Hour CE-April 30, 2017:
Five Retinal Diagnoses You Don't Want to Miss; Cataract Surgery in Patients with Corneal Pathology;
Buried Treasure: Connecting the Dots to Treating Binocular Misalignment; Patient-reported
Outcomes with Lasik: Interpreting the PROWL study; What We Know about Topography Guided
Refractive Surgery: Case Studies in Clinical Practice; Do You See What I See?; Crosslinking for Corneal
Ectasia: The Evolution of Sclera Lenses; Blink and You'll Miss It: Dry Eye in the Cosmetic Patient; Is the
Symphony Toric Lens the Answer for Every Eye Condition; Should My Glaucoma Patient with a
Cataract have a MIGS Surgery; Vitreous: Friend or Foe; Is it Cancer? The Optometrist Role in the
Diagnosis and Management of Periocular Skin Cancer; Oral Presentations of Systemic Disease: Case
Presentations; Glaucoma Management: What Should I do Next?

Dear Practice and Education committee,

I am writing this letter in regards to late submission for the multi-course symposium titled "Taste of the Islands CE" scheduled for presentation on 04/30/2017. We are short of the 45 day submission request, and wanted to include a letter for late submission with our CE approval application.

We continue to work diligently to get all required items to the board needed for CE approval in a timely manner. Due to multiple speakers at the upcoming CE, we had difficulty obtaining all the lectures to meet the submission requirement timeline and would appreciate your consideration of our continuing education approval request.

Please feel free to reach out to us with any other questions. We look forward to continued relations with the State Board of Optometry and the practice and education committee.

Sincerely,

Gina Valdemar
Affiliate Relations and Education Director
Coastal Vision Medical Group
ginavaldemar@coastal-vision.com

Schedule of Events:

7:00 am-7:50 am	Registration & Breakfast	
7:50 am-8:00 am	Dan B. Tran, MD	Welcome & Opening Remarks
8:00 am-8:25 am	Timothy You, MD	5 Retinal Diagnoses You Don't Want to Miss
8:25 am-8:50 am	Jennifer Lee Wu, MD	Cataract Surgery in Patients with Corneal Pathology
8:50 am-9:15 am	Gary Lovcik, OD	Buried Treasure: Connecting the Dots to Treating Binocular Misalignment
9:15 am-9:40 am	Elizabeth Hofmeister, MD, MC, USN	Patient-reported Outcomes with LASIK: Interpreting the PROWL Study
9:40 am-10:05 am	Dan B. Tran, MD	What We Know about Topography Guided Refractive Surgery: Case Studies in Clinical Practice
10:05 am-10:30 am	Madhu Agarwal, MD	Do You See What I See?
10:30 am-11:00 am	Break	
11:00 am-11:50 am	Jennifer Lee Wu, MD	Crosslinking for Corneal Ectasia
11:50 am-12:15 pm	Justin Kwan, OD, FAAO	The Evolution of Sclera Lenses
12:15 pm-12:40 pm	Jeffrey Joseph, MD	Blink and You'll Miss It: Dry Eye in the Cosmetic Patient
12:40 pm-1:50 pm	Lunch/Luau	
1:50 pm-2:15 pm	Dan B. Tran, MD	Is the Symphony Toric Lens the Answer for Every Eye Condition?
2:15 pm-2:40 pm	Betsy Nguyen, MD	Should My Glaucoma Patient with a Cataract have a MIGS Surgery?
2:40 pm-3:05 pm	Raj Rathod, MD, MBA	Vitreous: Friend or Foe
3:10 pm-3:35 pm	Jeffrey Joseph, MD	Is it Cancer? The Optometrist's Role in the Diagnosis and Management of Periocular Skin Cancer
3:35pm-3:40 pm	Lisa D. Garbutt, MD	Ocular Presentations of Systemic Disease: Case Presentations
4:00 pm-4:25 pm	Betsy Nguyen, MD	Glaucoma Management: What Should I Do Next?
4:25 pm-4:30 pm	Closing Remarks/Raffle	

*At time of print, pending CA Board of Optometry approval. Topics and speakers are subject to change.

**Taste of the Islands 8 hour CE
(3 of 15 lectures)**

Course Title: Buried Treasure: Connecting the Dots to Treating Binocular Misalignment

Course Presentation date: 4/30/17

Speaker: Gary Lovcik, OD

Target Audience: This lecture is intended for optometrist seeking continuing education

This lecture will begin by introducing the lecture attendees to the findings from the Vision Council (2016) report regarding Digital Vision Syndrome. It will discuss the percentage of the population are affected by this diagnosis. The lecture will continue by covering the trigeminal nerve and how it is connected to the symptoms of digital vision syndrome. It will then cover some scientific background about saccadic eye movements, peripheral and central vision processing and how misalignments are related to digital vision syndrome and the trigeminal nerve stimulation. The lecture will cover the limiting factors that optometry has had to treat these problems at current start, and then move on to discuss a new proprietary way to measure and treat binocular misalignment; SightSync and neuroLens. The lecture will then cover case studies where symptomatic patients were measured in the SightSync and prescribed neurolenses. The outcomes and patient reported post-symptoms will be discussed.

CE Credit: .50 CE Units

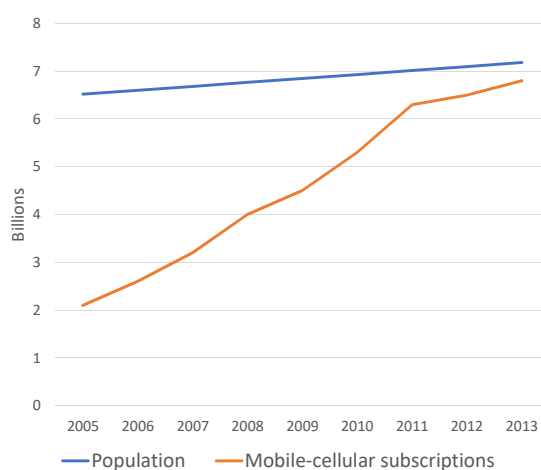
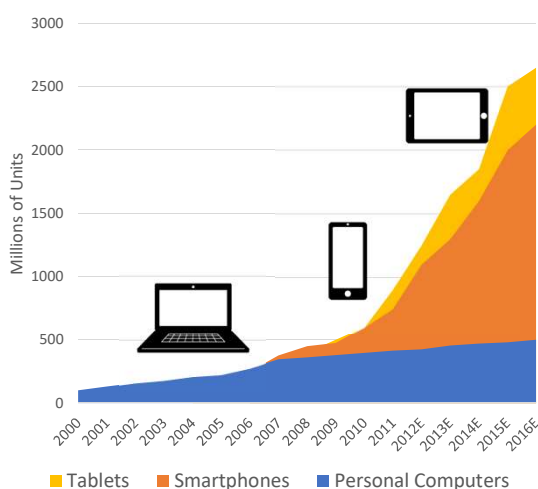
Buried Treasure: Connecting The Dots To Treating Binocular Misalignment

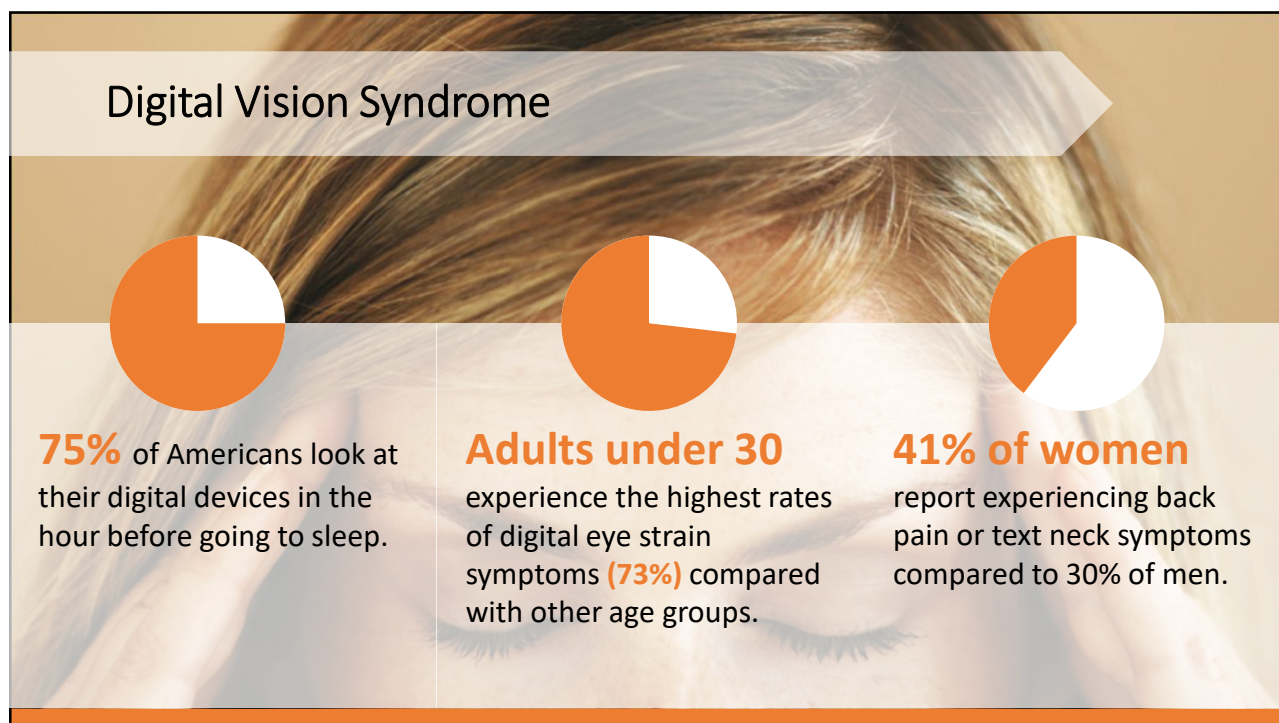
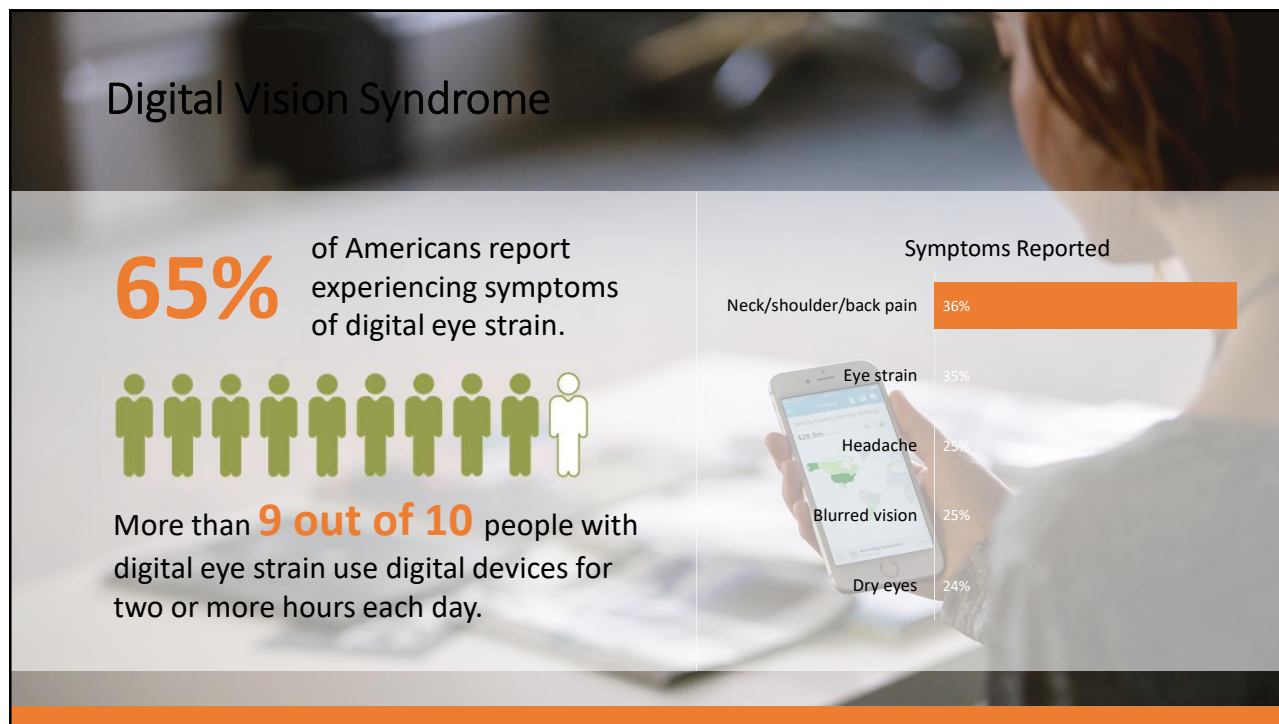
- I. What Is The Problem?
 - a. Digital Vision Statistics (our population)
 - b. Symptomatic Patients
- II. The Trigeminal Nerve
 - a. Stimulation of the trigeminal nerve causes symptoms
- III. Present research on saccadic and smooth pursuit eye movements
 - a. Peripheral and central vision processing
 - b. How misalignments lead to digital vision syndrome symptoms
 - c. How the trigeminal nerve is effected
- IV. Optometry has had limiting factors for diagnosing and treating
 - a. Current testing for binocular misalignment
 - b. Current treatment options for digital vision syndrome
- V. The SightSync: proprietary measuring device
- VI. neuroLenses: the progressive prism difference
- VII. Present Case Studies
 - a. 22 cases
- VIII. Study data on Convergence Insufficiency
- IX. Patient Survey Data
 - a. Does the solution work?
 - b. Are patients willing to recommend this as a treatment option?
- X. Practice Impact of adding SightSync and neuroLens technology to your practice
 - a. Present data from Economic white paper
- XI. References

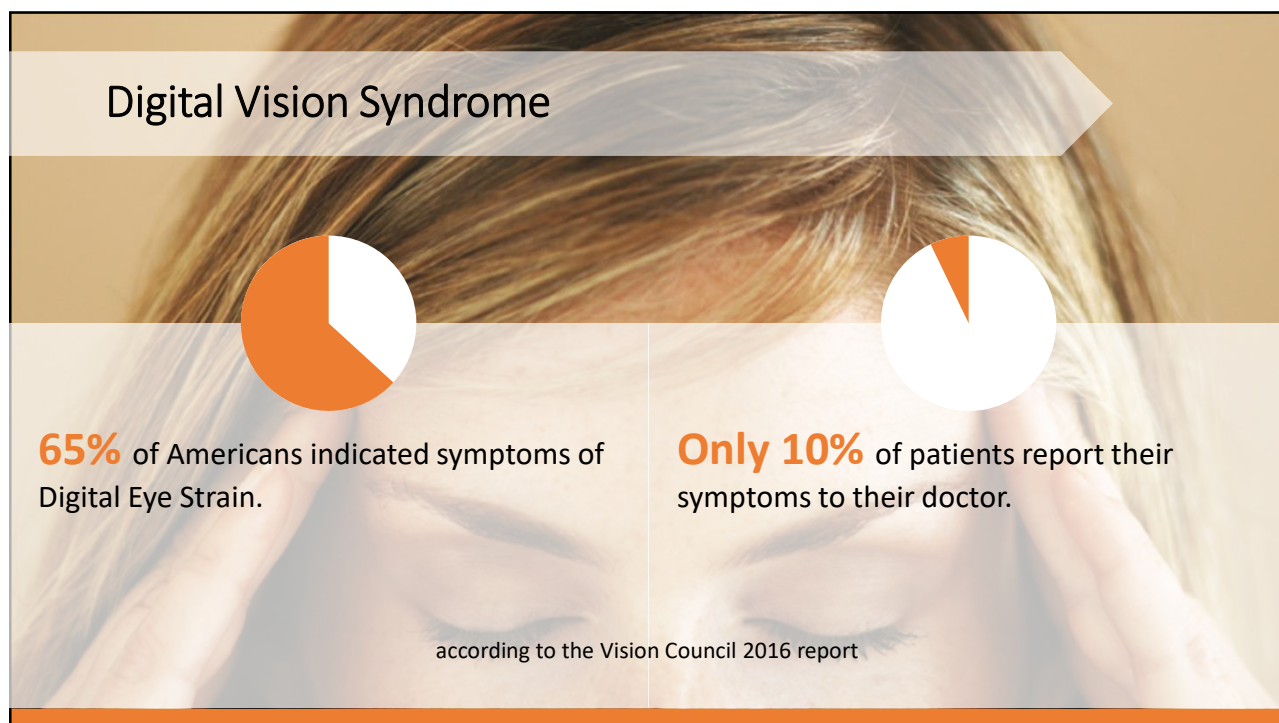
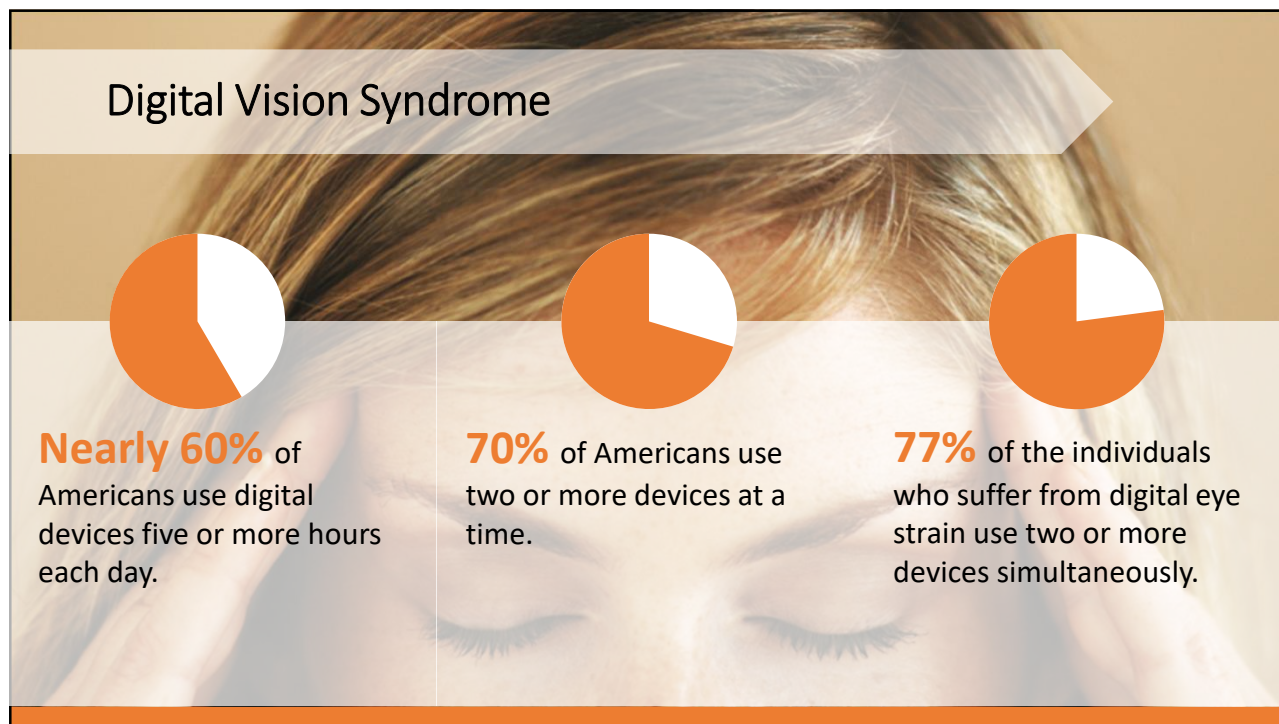
Buried Treasure: Connecting The Dots to Treating Binocular Misalignment

Gary Lovcik, OD
Anaheim Hills Optometric

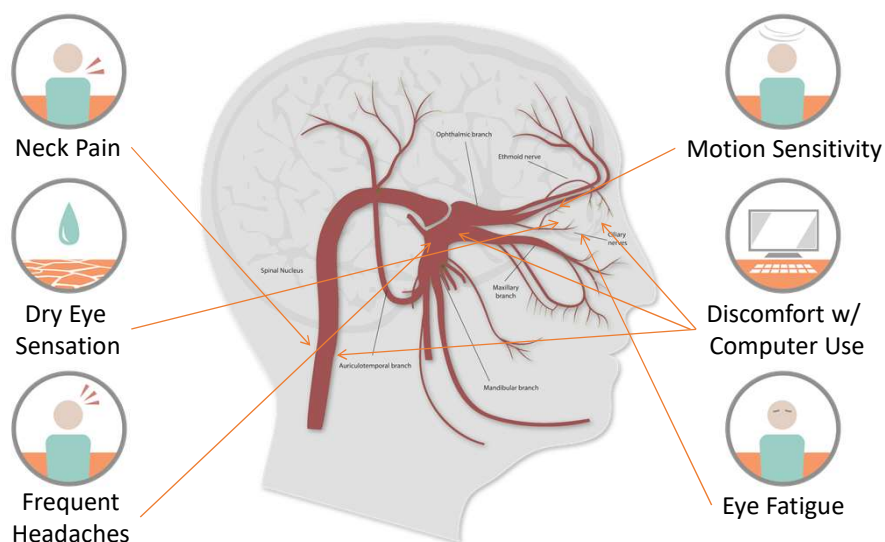
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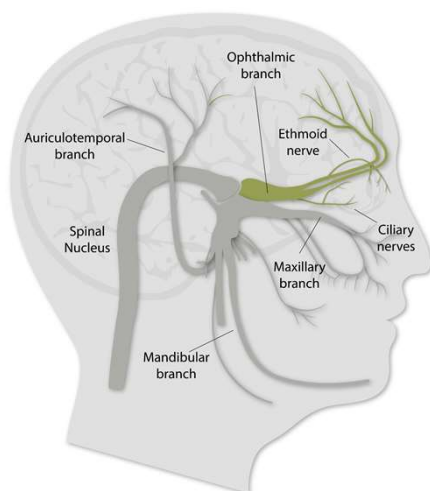




Trigeminal Nerve Stimulation



Trigeminal Nerve Stimulation



- Tired eyes
- Dry eye sensation
- Light sensitivity
- Fatigue w/ near work
- Neck/Shoulder pain and stiffness
- Frequent headaches

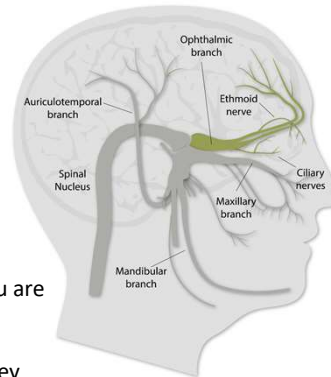
Trigeminal Nerve Stimulation

Tired eyes

- Do you or your eyes feel fatigued/tired at the end of a long work day?
- Do your eyes feel better in the morning compared to the end of the day?

Dry eye sensation

- Do your eyes and/or contacts tend to dry out when you are working at a computer or reading?
- Do your eyes dry out more as the day goes on? (Are they worse in the evening vs. the morning?)



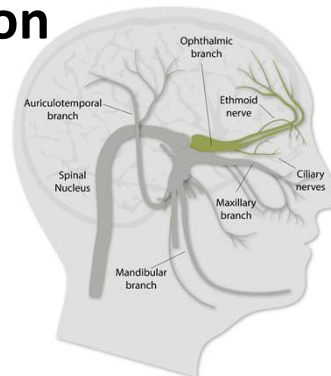
Trigeminal Nerve Stimulation

Light sensitivity

- Do you have problems with driving at night?(headlights, glare, etc.)
- Do fluorescent lights in a large building bother you?

Fatigue with near work

- Do you feel like you are more productive at work in the morning vs. the afternoon?
- Do your eyes get tired, burn, or get red easily when you work at a computer for long hours?



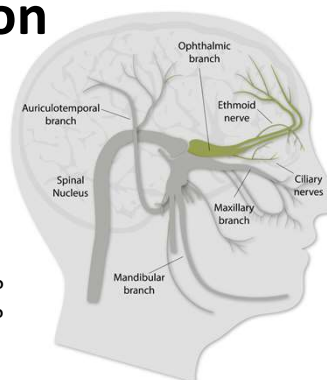
Trigeminal Nerve Stimulation

Neck/Shoulder pain and stiffness

- Does your neck get stiff and sore when you work at a computer or read?
- Do you get frequent massages/chiropractic adjustments? How effective are they and how long does the relief last?

Frequent headaches

- What time of day are your headaches the worst?
- Are your headaches worse at work than they are at home or on weekends?



SACCADIC AND SMOOTH PURSUIT EYE MOVEMENTS AND THEIR RELATIONSHIP TO PERIPHERAL AND CENTRAL VISUAL PROCESSING

- The visual system is constantly faced with two conflicting demands. The first is the need to move objects of interest from the peripheral retina to the central retina in order to bring images into sharper focus. The second is the need to hold objects still, so they can be better visualized (Godlove, 2013)
- As a visual image moves across The retinal surface, the time needed for the visual cortex to convert light energy into a high quality neural impulse is reduced, resulting in visual blur. Primates in general have been shown to be relatively slow in transducing light information at the retinal level (Carpenter, 1988)
- Saccadic eye movements provide extremely quick readjustments of eye position. The primary function of saccadic movements is to shift objects of concern from the peripheral retina to the area of central vision. Smooth pursuit eye movements then take over, stabilizing images, thereby allowing visual processing in the occipital cortex to provide greater clarity.
- Smooth pursuit eye movements track more slowly and compensate for motion of the visualized object, thereby reducing blur (Krauzlis, 2004). Smooth pursuit movements, therefore, are more of a "gaze-holding" than a "gaze-moving" eye movement (Godlove)
- The coordination and synchronization of the saccadic and smooth pursuit eye movements, therefore, would appear to be critical, if the eye is to provide an effortless transfer of images from the peripheral to central vision.

HOW MISALIGNMENTS OF PERIPHERAL AND CENTRAL VISUAL TRACKING SYSTEMS TRACKING LEAD TO THE SYMPTOMS OF DIGITAL VISION SYNDROME

- It has long been known that mid-peripheral fusional mechanisms play an important role in maintaining central fixation and that imbalances between mid-peripheral and central tracking systems can be a source of ocular discomfort (Burian, 1939)
- It has also been demonstrated that even small discrepancies in peripheral and central fusional mechanisms become far more pronounced and symptomatic at higher levels of background illumination such as that encountered on digital devices (Shippman, 2015)
- Although these fusional issues and their consequences are well understood and documented in basic science research literature, imbalances between these two systems have been considered of little clinical significance in the past and have been largely ignored in clinical practice.
- The doctors I work with that are researching this believe, however, that imbalances in peripheral and central fusion, made more problematic by pixelated images on the illuminated screens of digital devices, play a very crucial role in the development of CVS.
- The doctors believe that even small imbalances of synchronization of peripheral and central tracking can lead to the creation of painful stimuli from the trigeminal nerve to the eyes and head during computer use.

Trigeminal Nerve Stimulation

- Proprioceptive fibers of extraocular muscles have different branches that lead directly to the trigeminal nerve.
- In patients with fixation misalignment, these proprioceptive fibers are constantly stimulated as efforts are made to re-align the eyes during the use of digital devices.
- This, in turn, causes continuous overstimulation of the trigeminal nerve, which in time responds by sending painful feedback to the eyes and the head.

Limiting factors in optometry...until now

- For patients with Digital Vision Syndrome, or binocular misalignment we've been able to test by:
 - Cover test
 - Phoropter Phorias
 - Maddox Rod Test
 - Turville Infinitist Balance Test
- The American Optometric Association Recommends (www.aoa.org):
 - Adjusting location of computer screen
 - Adjusting lighting
 - Using an anti-glare screen
 - Adjust your body's position
 - Give your eyes rest breaks
 - Blinking
 - Blue Light protection on glasses

The Treasure Map: SightSync

- Proprietary testing device that is designed to measure binocular misalignment both mid-peripheral and central visual tracking systems
- Two independent central dots viewed at optical infinity are introduced on the SightSync viewing screen while the eyes are alternately occluded.
- With the central dot visible monocularly, several very compelling mid-peripheral targets are then introduced independently to both the right and left eyes. These independent targets stimulate cortical fusion of one's peripheral field of vision due to their size and movement while allowing central vision to remain monocular.
- Any change in monocular alignment of the central vision is in response to fusion from peripheral binocular stimulation.
- If there is no disparity between the alignment of central vision and the peripheral alignment of the fused binocular images, the central dot remains stationary. If there is disparity between central fusion and the alignment of the peripheral tracking system, the dot begins to vibrate.
- This imbalance is then tracked and SightSync automatically relocates the central target to align with the center of peripheral fusion. The deviation is measured in diopters, and this procedure is performed twice, measuring central and peripheral alignment at distance (optical infinity) and near (.5 meters).

The Treasure: neuroLenses

- Measurements taken from the SightSync device guided the manufacture of glasses, known as NeuroLenses, with variable prisms designed to correct the measured imbalance.
- A proprietary manufacturing technique allows the power of the prismatic correction to vary from distance to near vision. The NeuroLens opti-medical design corrects misalignment of the peripheral and central tracking systems at all distances.



CASE STUDIES LEGEND

CVS Validated Q	Validated Questionnaire identifying if a patient may be diagnosed with CVS or digital eye strain Link to CVS Q Validated Questionnaire Study
Sync Value	The value that the SightSync generates, representative of the diopter misalignment needed to optimally reduce symptoms of CVS, eye strain and headache
Outcomes and Vision	Patients were asked by what % they thought their symptoms had decreased, from 0% to 100% in 10% intervals. They were then asked if their symptoms were Decreased Slightly, Decreased Substantially, Basically Gone, Increased, or Unchanged. Patients were asked how their vision was with the NeuroLenses vs. their previous glasses, with options being better, worse, or the same.
WTR	Willingness to Recommend, which is a measure of if this patient would willingly recommend NeuroLenses to family and friends. Patients were asked if they would willingly recommend NeuroLenses to family, friends, or coworkers who work at a computer. The choices were Strongly Agree, Agree, Neutral, Disagree, and Strongly Disagree.

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#1 Patient Information	#2 Symptomatic Profile
Patient Age: 21 years old	Primary Complaint: Gets HA by the end of the day every time she is at work.
Patient Sex: Female	Secondary Complaint: Dry and red eyes at the end of the day when working.
Habitual Rx: +0.50 DS Computer RX +0.25 DS	Other Symptoms: Neck and shoulder stiffness
Rx: OD +0.50 DS 20/20 OS +0.25 DS 20/20	Blurry vision after long periods of computer work
Ocular Issues: None	Has to get up and take frequent breaks when working at computer
CVS Validated Q: Score of 11	Occasional dizziness
Digital Device usage: 40+ hours per week	
#3 SightSync & Prescription Guidelines	#4 Outcome and Follow up
Sync Value: 2.5 PD BI	30 Day Follow Up
Prescribed: 2.6 PD Base In (which will result in 3.35D at near)	General Outcome: 80% reduction of all symptoms; Symptoms decreased substantially. Vision same.
Other Information: This patient initially wanted to wear the glasses only at her computer during work but after wearing them at work and seeing the benefits, she started wearing them all the time because she felt better. We decreased the + Rx in the second pair so she had better distance vision with them when wearing full time.	New Sync Value: Not performed
	Lens Update: Decrease distance Rx by 0.25D, leave SS the same
	CVS Q Score: 4 (reduction of 7 pts. from baseline)
	60 Day Follow Up
	General Outcome: 90% reduction of all symptoms; Symptoms basically gone. Vision better.
	WTR: Strongly agree
	CVS Q Score: 2 (reduction of 9 pts. from baseline)

#1 Patient Information	#2 Symptomatic Profile
Patient Age: 46 years old	Primary Complaint: Can't focus up close or when working at computer
Patient Sex: Male	Secondary Complaint: Eyes get very fatigued when working at a computer for long periods.
Habitual Rx: +1.75-0.50 X 105 Computer & Reading only +1.75-0.75 X 096	Other Symptoms: Neck and shoulder stiffness
Rx: OD +1.50-0.50 X 102 20/20 (Near only) OS +1.75-0.75 X 098 20/20	Occasional headaches
Ocular Issues: None	Red burning eyes and eye dryness
CVS Validated Q: Score of 12	Excessive blinking at computer
Digital Device usage: 40 hours per week	
#3 SightSync & Prescription Guidelines	#4 Outcome and Follow up
Sync Value: 1.2 PD BI	30 Day Follow Up
Prescribed: 2.0 PD Base In (which will result in 2.75D at near)	General Outcome: 30% reduction of all symptoms; Vision same.
Other Information: This patient did NOT want to wear glasses in the distance, only wanted them for up close. Patient felt that when taking off first pair his distance VA seemed worse so we made him a new pair with a smaller Sync Value. This pair worked much better and patient was able to wear it for up close and vision seemed better in the distance when taking it off.	New Sync Value: Not performed
	Lens Update: Decrease Sync value to 1.2
	CVS Q Score: 6 (reduction of 6 pts. from baseline)
	60 Day Follow Up
	General Outcome: 50% reduction of all symptoms; Symptoms decreased slightly. Vision better.
	WTR: Strongly agree
	CVS Q Score: 13 (increase of 1 point from baseline)

#1 Patient Information	#2 Symptomatic Profile
Patient Age: 31 years old	Primary Complaint: Daily headaches worse at the end of the day.
Patient Sex: Female	Secondary Complaint: Eyes are very dry and burn all the time.
Habitual Rx: -0.25 DS +1.25 ADD -0.25-0.25 X 145	Other Symptoms: Neck and shoulder stiffness
Rx: OD -0.50-0.25 X 090 20/20 OS -0.25 DS 20/20	Difficulty focusing at near
Ocular Issues: None	Light sensitivity
CVS Validated Q: Score of 16	Occasional double vision
Digital Device usage: 40+ hours per week	
#3 SightSync & Prescription Guidelines	#4 Outcome and Follow up
Sync Value: 2.2 PD BI	30 Day Follow Up
Prescribed: 1.9 PD Base In (which will result in 2.65D at near)	General Outcome: 80% reduction of all symptoms; Symptoms decreased substantially. Vision better.
Other Information: This patient was prescribed a bifocal 2 years ago because of all the problems she has at her computer. I decided to remove the bifocal since VA was great at both distance and near. She did very well without the bifocal and no longer needs it.	New Sync Value: 1.4
	Lens Update: None
	CVS Q Score: 8 (reduction of 8 pts. from baseline)
	60 Day Follow Up
	General Outcome: 90% reduction of all symptoms; Symptoms decreased slightly. Vision better.
	WTR: Strongly agree
	CVS Q Score: 6 (decrease of 10 pts. from baseline)

#1 Patient Information	#2 Symptomatic Profile
Patient Age: 29 years old	Primary Complaint: Daily headaches worse at the end of the day.
Patient Sex: Female	Secondary Complaint: Has to get up and take frequent breaks when working at computer
Habitual Rx: Contact lenses	Other Symptoms: Neck and shoulder stiffness
Rx: OD PL DS over CLs 20/20 OS PL DS over CLs 20/20	Difficulty focusing at near
Ocular Issues: None	Blurry vision
CVS Validated Q: Score of 15	Eye pain and redness
Digital Device usage: 60+ hours per week	
#3 SightSync & Prescription Guidelines	#4 Outcome and Follow up
Sync Value: 1.8 PD BI	30 Day Follow Up
Prescribed: 2.0 PD Base In (which will result in 2.75D at near)	General Outcome: 80% reduction of all symptoms; Symptoms decreased substantially. Vision better.
Other Information: This patient originally was just going to wear her lenses at her computer and up close, which is why we gave her a slightly higher Sync Value. After wearing them for a few weeks, she felt more comfortable wearing them all the time and now uses them full time over her contacts.	New Sync Value: 0.8
	Lens Update: None
	CVS Q Score: 12 (reduction of 3 pts. from baseline)
	60 Day Follow Up
	General Outcome: 80% reduction of all symptoms; Symptoms decreased substantially. Vision better.
	WTR: Strongly agree
	CVS Q Score: 10 (decrease of 5 pts. from baseline)

#1 Patient Information Patient Age: 36 years old Patient Sex: Female Habitual Rx: Contact lenses Rx: OD -7.00 DS 20/20 OS -4.75-0.25 X 039 20/20 Ocular Issues: None CVS Validated Q: Score of 18 Digital Device usage: 50+ hours per week	#2 Symptomatic Profile Primary Complaint: Daily headaches worse at the end of the day. Secondary Complaint: Blurry vision after long periods of computer use Other Symptoms: Neck and shoulder stiffness Light sensitivity Dry eyes Eye pain and redness
#3 SightSync & Prescription Guidelines Sync Value: 1.9 PD BI Prescribed: 1.9 PD Base In (which will result in 2.65D at near) Other Information: This patient wanted to put her full prescription into her glasses since her eyes always get very dry at work. Her headaches persisted for the first few weeks after starting with the Neurolenses, then began to improve.	#4 Outcome and Follow up 30 Day Follow Up General Outcome: 70% reduction of all symptoms; Symptoms decreased slightly. Vision same. New Sync Value: 1.1 Lens Update: None CVS Q Score: 10 (reduction of 8 pts. from baseline) 60 Day Follow Up General Outcome: 70% reduction of all symptoms; Symptoms decreased slightly. Vision better. WTR: Agree CVS Q Score: 8 (decrease of 10 pts. from baseline)

#1 Patient Information Patient Age: 26 years old Patient Sex: Female Habitual Rx: None Rx: OD -0.25 DS 20/20 OS -0.25 DS 20/20 Ocular Issues: None CVS Validated Q: Score of 6 Digital Device usage: 12-16 hours per week	#2 Symptomatic Profile Primary Complaint: Frequent headaches Secondary Complaint: Frequent motion sickness Other Symptoms: Neck and shoulder stiffness Occasional blurry vision Light sensitivity Eye pain and heavy eyelids
#3 SightSync & Prescription Guidelines Sync Value: 2.0 PD BI Prescribed: 2.0 PD Base In (which will result in 2.75D at near) Other Information: This patient only experienced headaches when doing schoolwork for long periods of time. These headaches were virtually gone after wearing the Neurolenses. We made one small change which resulted in a slight improvement of symptoms from day 30 to day 60.	#4 Outcome and Follow up 30 Day Follow Up General Outcome: 80% reduction of all symptoms; Symptoms decreased substantially. Vision better. New Sync Value: 1.5 Lens Update: 2.4 PD BI CVS Q Score: 8 (increase of 2 pts. from baseline) 60 Day Follow Up General Outcome: 80% reduction of all symptoms; Symptoms decreased substantially. Vision better. WTR: Agree CVS Q Score: 5 (decrease of 1 pt. from baseline)

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#1 Patient Information Patient Age: 26 years old Patient Sex: Male Habitual Rx: None Rx: OD PL DS 20/20 OS PL DS 20/20 Ocular Issues: None CVS Validated Q: Score of 6 Digital Device usage: 40+ hours per week	#2 Symptomatic Profile Primary Complaint: Eyes burn by the end of the day Secondary Complaint: Eyes feel dry when working at a computer Other Symptoms: Neck and shoulder stiffness Eye redness
#3 SightSync & Prescription Guidelines Sync Value: 1.3 PD BI Prescribed: 1.5 PD Base In (which will result in 2.25D at near) Other Information: This patient does not have severe symptoms like some of the other patients. All symptoms get worse as the day goes on and he works at the computer longer.	#4 Outcome and Follow up 30 Day Follow Up General Outcome: 90% reduction of all symptoms; Symptoms decreased substantially. Vision same. New Sync Value: 1.1 Lens Update: None CVS Q Score: 3 (decrease of 3 pts. from baseline) 60 Day Follow Up General Outcome: 90% reduction of all symptoms; Symptoms decreased substantially. Vision same. WTR: Strongly Agree CVS Q Score: 3 (decrease of 3 pts. from baseline)

#1 Patient Information Patient Age: 45 years old Patient Sex: Female Habitual Rx: OD -3.25-0.25 X 105 20/20 OS -2.75-0.50 X 096 20/20 Rx: OD -3.00-0.50 X 107 20/20 +1.00 ADD OS -3.25-0.50 X 096 20/20 Ocular Issues: None CVS Validated Q: Score of 10 Digital Device usage: 50+ hours per week	#2 Symptomatic Profile Primary Complaint: Frequent headaches worse at the end of the day Secondary Complaint: Eyes feel dry when working at a computer Other Symptoms: Neck and shoulder stiffness Excess tearing when working at a computer Light sensitivity Difficulty focusing at near
#3 SightSync & Prescription Guidelines Sync Value: 1.9 PD BI Prescribed: 1.8 PD Base In (which will result in 2.55D at near) Other Information: This patient gets some severe headaches as well as the daily ones at her computer. Has tried a bifocal in the past with limited success. It took a bit longer for her to adapt than most but once she did, she did extremely well.	#4 Outcome and Follow up 30 Day Follow Up General Outcome: 50% reduction of all symptoms; Symptoms decreased substantially. Vision better. New Sync Value: 1.4 Lens Update: None CVS Q Score: 9 (decrease of 1 pt. from baseline) 60 Day Follow Up General Outcome: 100% reduction of all symptoms; Symptoms basically gone. Vision better. WTR: Strongly Agree CVS Q Score: 2 (decrease of 8 pts. from baseline)

<table border="1"> <tr> <th>#1</th> <th>Patient Information</th> </tr> <tr> <td>Patient Age:</td> <td>17 years old</td> </tr> <tr> <td>Patient Sex:</td> <td>Female</td> </tr> <tr> <td>Habitual Rx:</td> <td>None</td> </tr> <tr> <td>Rx:</td> <td>OD +0.25 DS 20/20 OS PL DS 20/20</td> </tr> <tr> <td>Ocular Issues:</td> <td>None</td> </tr> <tr> <td>CVS Validated Q:</td> <td>Score of 19</td> </tr> <tr> <td>Digital Device usage:</td> <td>35-55 hours per week</td> </tr> </table>	#1	Patient Information	Patient Age:	17 years old	Patient Sex:	Female	Habitual Rx:	None	Rx:	OD +0.25 DS 20/20 OS PL DS 20/20	Ocular Issues:	None	CVS Validated Q:	Score of 19	Digital Device usage:	35-55 hours per week	<table border="1"> <tr> <th>#2</th> <th>Symptomatic Profile</th> </tr> <tr> <td>Primary Complaint:</td> <td>Frequent headaches worse at the end of the day</td> </tr> <tr> <td>Secondary Complaint:</td> <td>Dizziness</td> </tr> <tr> <td>Other Symptoms:</td> <td>Neck and shoulder stiffness</td> </tr> <tr> <td></td> <td>Excess tearing and blinking when working at a computer</td> </tr> <tr> <td></td> <td>Light sensitivity</td> </tr> <tr> <td></td> <td>Difficulty focusing at near</td> </tr> </table>	#2	Symptomatic Profile	Primary Complaint:	Frequent headaches worse at the end of the day	Secondary Complaint:	Dizziness	Other Symptoms:	Neck and shoulder stiffness		Excess tearing and blinking when working at a computer		Light sensitivity		Difficulty focusing at near
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#1 Patient Information Patient Age: 32 years old Patient Sex: Female Habitual Rx: None Rx: OD +0.50-0.50 X 165 20/20 OS +0.50-0.25 X 019 20/20 Ocular Issues: None CVS Validated Q: Score of 8 Digital Device usage: 38+ hours per week	#2 Symptomatic Profile Primary Complaint: Occasional headaches worse at the end of the day Secondary Complaint: Eyes burn when working at a computer Other Symptoms: Neck and shoulder stiffness Excess blinking when working at a computer Eye dryness Light sensitivity
#3 SightSync & Prescription Guidelines Sync Value: 1.9 PD BI Prescribed: 2.0 PD Base In (which will result in 2.75D at near) Other Information: This patient did not want to wear glasses full time, only at her computer, so we made the prism strength a little stronger.	#4 Outcome and Follow up 30 Day Follow Up General Outcome: 80% reduction of all symptoms; Symptoms decreased substantially. Vision better. New Sync Value: 1.4 Lens Update: None CVS Q Score: 10 (increase of 2 pts. from baseline) 60 Day Follow Up General Outcome: 100% reduction of all symptoms; Symptoms basically gone. Vision better. WTR: Strongly Agree CVS Q Score: 0 (decrease of 8 pts. from baseline)

#1 Patient Information Patient Age: 34 years old Patient Sex: Female Habitual Rx: None Rx: OD +0.75-0.50 X 030 20/20 OS +0.25-0.25 X 028 20/20 Ocular Issues: None CVS Validated Q: Score of 13 Digital Device usage: 40+ hours per week	#2 Symptomatic Profile Primary Complaint: Dryness when working at a computer Secondary Complaint: Excess tearing and blinking at computer Other Symptoms: Neck and shoulder stiffness Occasional headaches Eye pain Light sensitivity
#3 SightSync & Prescription Guidelines Sync Value: 2.0 PD BI Prescribed: 1.9 PD Base In (which will result in 2.65D at near) Other Information: This patient had LASIK 6 years ago and eye dryness has been a big issue since then. The Neurolenses ended up having a significant effect on how her eyes felt. She is another patient who originally only wanted them for her computer but ended up wearing them full time.	#4 Outcome and Follow up 30 Day Follow Up General Outcome: 70% reduction of all symptoms; Symptoms decreased substantially. Vision better. New Sync Value: 2.0 Lens Update: 2.4 PD BI CVS Q Score: 4 (decrease of 9 pts. from baseline) 60 Day Follow Up General Outcome: 100% reduction of all symptoms; Symptoms decrease substantially. Vision better. WTR: Strongly Agree CVS Q Score: 6 (decrease of 7 pts. from baseline)

#1 Patient Information	#2 Symptomatic Profile
Patient Age: 29 years old	Primary Complaint: Frequent headaches when working at a computer
Patient Sex: Female	Secondary Complaint: Eye dryness
Habitual Rx: None	Other Symptoms: Neck and shoulder stiffness
Rx: OD PL DS 20/20 OS PL DS 20/20	Eye redness
Ocular Issues: None	Eye burning and itching
CVS Validated Q: Score of 7	Light sensitivity
Digital Device usage: 60-70 hours per week	
#3 SightSync & Prescription Guidelines	#4 Outcome and Follow up
Sync Value: 1.6 PD BI	30 Day Follow Up
Prescribed: 1.5 PD Base In (which will result in 2.25D at near)	General Outcome: 70% reduction of all symptoms; Symptoms decreased slightly. Vision same.
Other Information: This patient is at a computer for long hours every day. Symptoms get worse as the day goes on. We made one update for her after the initial pair that performed better than the first pair.	New Sync Value: 1.1
	Lens Update: 1.9 PD BI
	CVS Q Score: 6 (decrease of 1 pt. from baseline)
	60 Day Follow Up
	General Outcome: 80% reduction of all symptoms; Symptoms decrease substantially. Vision better.
	WTR: Agree
	CVS Q Score: 6 (decrease of 1 pt. from baseline)

#1 Patient Information	#2 Symptomatic Profile
Patient Age: 36 years old	Primary Complaint: Frequent headaches when working at a computer
Patient Sex: Female	Secondary Complaint: Eye dryness
Habitual Rx: Contact lenses	Other Symptoms: Neck and shoulder stiffness
Rx: OD PL DS over CLs 20/20 OS +0.50-0.75 X 60 over CLs 20/20	Excessive tearing and blinking at computer
Ocular Issues: None	Eye burning and itching
CVS Validated Q: Score of 11	Light sensitivity
Digital Device usage: 40 hours per week	
#3 SightSync & Prescription Guidelines	#4 Outcome and Follow up
Sync Value: 1.5 PD BI	30 Day Follow Up
Prescribed: 1.8 PD Base In (which will result in 2.55D at near)	General Outcome: 80% reduction of all symptoms; Symptoms decreased substantially. Vision better.
Other Information: This patient ended up only wearing this Rx over her contacts when working on her computer. She did not need it for anything outside of work, and she did very well with it as an occupational pair.	New Sync Value: 0.0
	Lens Update: None
	CVS Q Score: 5 (decrease of 6 pts. from baseline)
	60 Day Follow Up
	General Outcome: 90% reduction of all symptoms; Symptoms basically gone. Vision better.
	WTR: Strongly Agree
	CVS Q Score: 2 (decrease of 9 pts. from baseline)

#1 Patient Information	#2 Symptomatic Profile
Patient Age: 31 years old	Primary Complaint: Frequent headaches worse at the end of the day
Patient Sex: Female	Secondary Complaint: Eye dryness
Habitual Rx: Contact lenses	Other Symptoms: Neck and shoulder stiffness
Rx: OD PL-0.50 X 180 over CLs 20/20 OS PL-0.50 X 180 over CLs 20/20	Excessive tearing and blinking at computer
Ocular Issues: None	Eye burning and itching
CVS Validated Q: Score of 18	Light sensitivity
Digital Device usage: 40 hours per week	
#3 SightSync & Prescription Guidelines	#4 Outcome and Follow up
Sync Value: 1.3 PD BI	30 Day Follow Up
Prescribed: 1.3 PD Base In (which will result in 2.05D at near)	General Outcome: 30% reduction of all symptoms; Symptoms decreased substantially. Vision better.
Other Information: This patient started out wearing her lenses only part time when she first got them. At her 30 day follow up, I encouraged her to wear them all the time, and her symptoms improved noticeably after this.	New Sync Value: 0.8
	Lens Update: None
	CVS Q Score: 16 (decrease of 2 pts. from baseline)
	60 Day Follow Up
	General Outcome: 80% reduction of all symptoms; Symptoms basically gone. Vision better.
	WTR: Strongly Agree
	CVS Q Score: 10 (decrease of 8 pts. from baseline)

#1 Patient Information	#2 Symptomatic Profile
Patient Age: 31 years old	Primary Complaint: Frequent headaches worse at the end of the day
Patient Sex: Female	Secondary Complaint: Eye dryness
Habitual Rx: Contact lenses	Other Symptoms: Neck and shoulder stiffness
Rx: OD PL-0.25 X 009 over CLs 20/20 OS +0.25 DS over CLs 20/20	Excessive blinking at computer
Ocular Issues: None	Eye burning and itching
CVS Validated Q: Score of 14	Light sensitivity
Digital Device usage: 40+ hours per week	
#3 SightSync & Prescription Guidelines	#4 Outcome and Follow up
Sync Value: 1.7 PD BI	30 Day Follow Up
Prescribed: 1.7 PD Base In (which will result in 2.45D at near)	General Outcome: 70% reduction of all symptoms; Symptoms decreased slightly. Vision better.
Other Information: This patient did not notice a significant improvement in dryness with the lenses but did experience relief from her headaches and neck and shoulder stiffness.	New Sync Value: 0.1
	Lens Update: None
	CVS Q Score: 4 (decrease of 10 pts. from baseline)
	60 Day Follow Up
	General Outcome: 70% reduction of all symptoms; Symptoms decreased slightly. Vision better.
	WTR: Strongly Agree
	CVS Q Score: 5 (decrease of 9 pts. from baseline)

Clinical Study Data on Convergence Insufficiency (Miles, 2016)

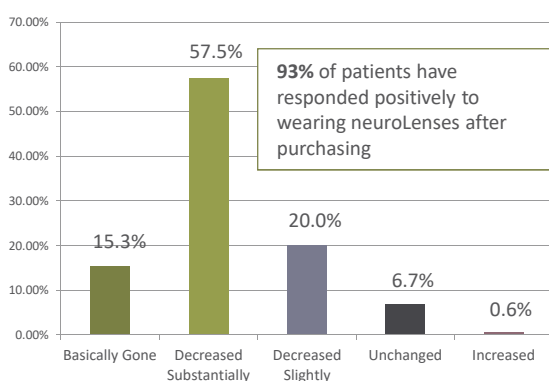
- Magnitude of the misalignment between eyes had no correlation to symptoms
- Convergence Insufficiency by definition... had very little correlation with any binocular vision measurements of these headache patients.

Distance	Near	Symptoms?
10 XO @ 20 ft.	25 XO @ 16 in.	No Symptoms
1 eso to 1 XO @ 20 ft.	5 XO @ 16 in.	Extremely Symptomatic

Does the solution work?

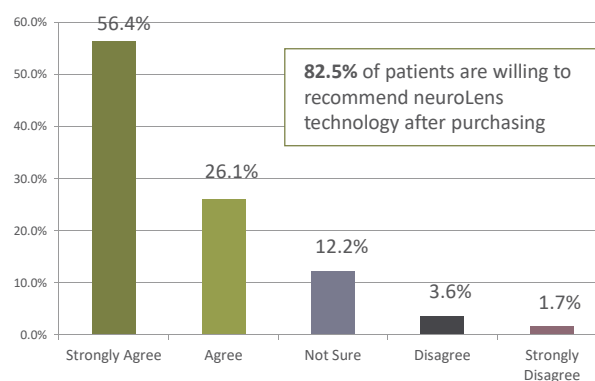
“Symptomatic response to treatment”

n = 360



“Willingness to Recommend”

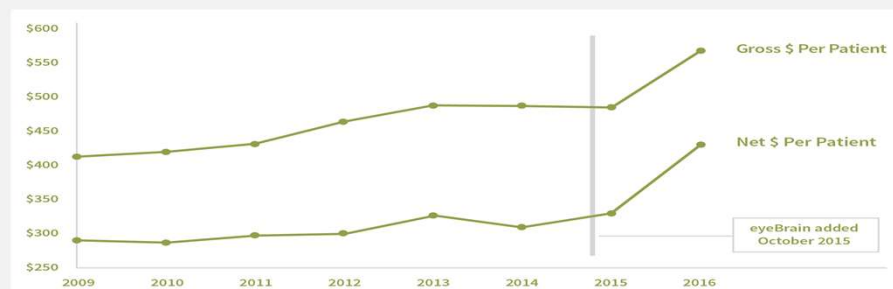
n = 360



Practice Impact

GROSS SALES / NET INCOME PER PATIENT Data from Dr. Gary Lovcik (Anaheim Hills, CA) for 2009-2016

	2009	2010	2011	2012	2013	2014	2015	2016
Gross \$ Per Patient	\$420	\$427	\$439	\$473	\$498	\$497	\$495	\$582
(change vs. prior year)		(+2%)	(+3%)	(+8%)	(+5%)	(0%)	(-1%)	(+18%)
Net \$ Per Patient	\$295	\$291	\$302	\$304	\$334	\$316	\$335	\$440
(change vs. prior year)		(-1%)	(+4%)	(+1%)	(+10%)	(-5%)	(+6%)	(+31%)



Benefits of using eyeBrain Technology

Patient satisfaction

Patients like KW and DI, covering spectrum of severity
 They're finding solutions in my clinic they won't find anywhere else.
 Healthier, more productive at their jobs, more time with family, happier

Doctor satisfaction

I'm solving problems I've never been able to solve before and it's extremely fun.
 Going to work is so exciting now
 More hugs, tears of joy, and handshakes in last year than my previous 30.

Practice Impact

HUGE financial impact (41% net increase)
 Staff having more fun
 Increased patient loyalty
 Increased referrals

References:

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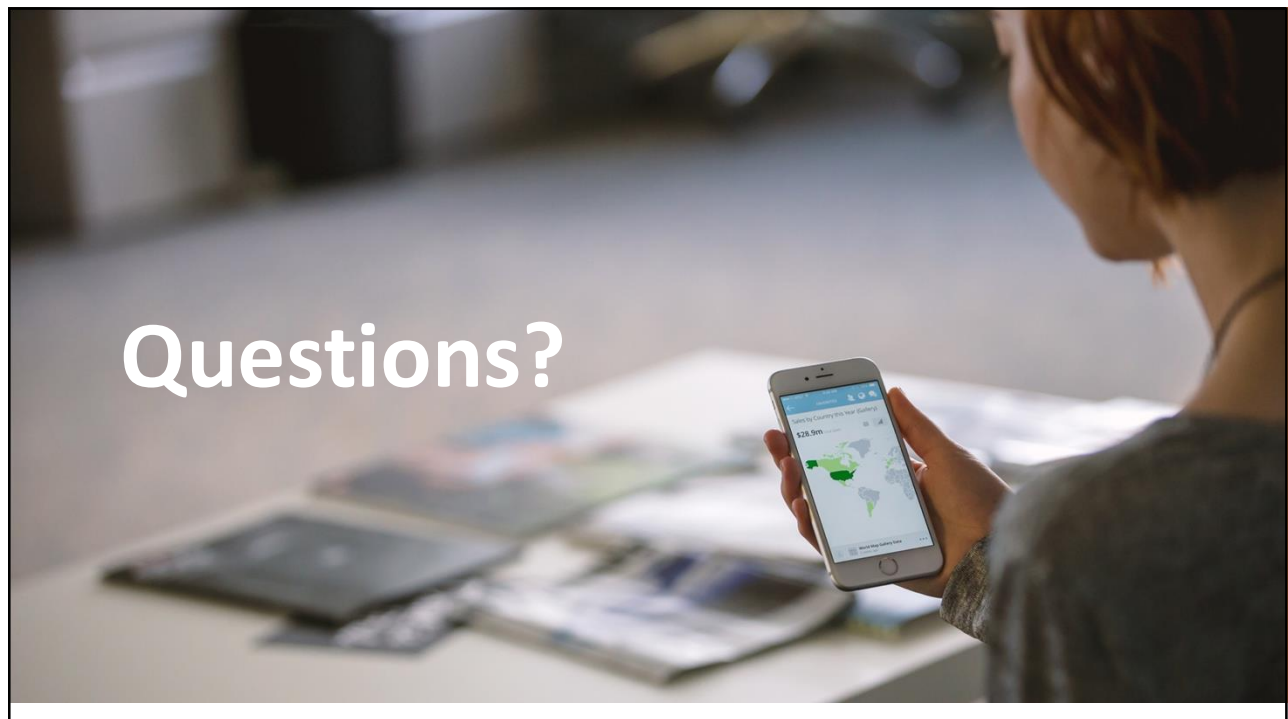
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Shipman, S. et al. Macular Diplopia. American Orthoptic Journal. 2015: 65:26-30.

The Vision Council "Digital Eye Strain Report 2016." <http://www.thevisioncouncil.org/digital-eye-strain-report-2016>



Gary M. Lovcik, OD

Experience	1987-present	Gary M. Lovcik, OD/Anaheim Hills Optometric Center
	Private Practice	
	<ul style="list-style-type: none">▪ Family Eye Care/ Medical Eye Care▪ Contact Lenses▪ LASIK and Cataract Surgery Comanagement▪ Headache Treatment and Management	
	2010-present	Ultimeyes
	Clinical Investigator	
	2010-2011	Nike/ Johnson and Johnson
	Consultant	
	<ul style="list-style-type: none">▪ Sports Vision Consultant▪ Contact Lens Consultant	
	2015-present	Johnson and Johnson
	Innovative Speakers Bureau	
	<ul style="list-style-type: none">▪ Teacher to other doctors	
	2015-present	eyeBrainmedical
	Investigator	
	<ul style="list-style-type: none">▪ Implement new technology to alleviate headaches	
	1985-2000	Fullerton Eye Medical Center
	Staff Optometrist/Manager	
	<ul style="list-style-type: none">▪ Provided optometric care and managed the optical	
Education	1981-1985	Southern California College of Optometry Fullerton, CA
	Optometry Doctor	
	1977-1981	North Dakota State University Fargo, ND
	B.S. Zoology	

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