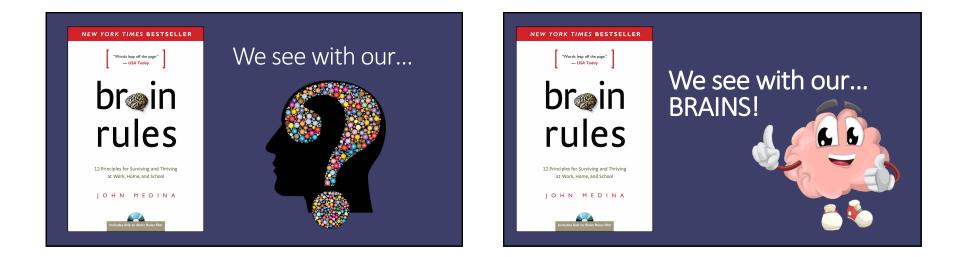
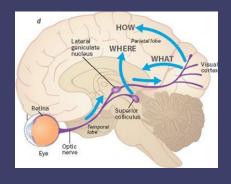




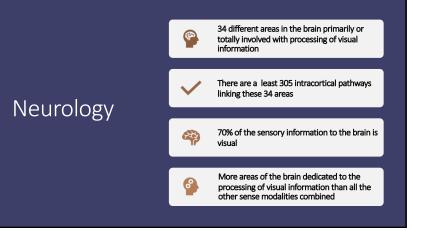
Sports concussion: The public health issue of our time.

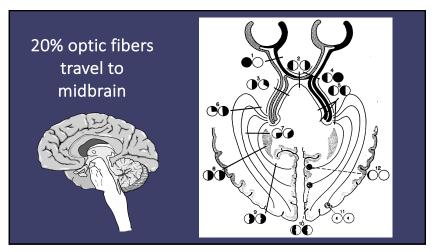


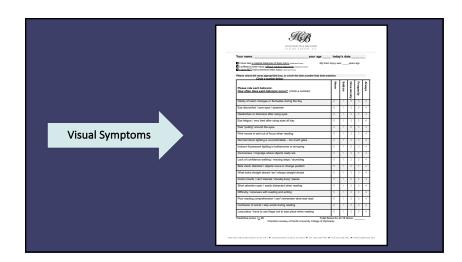


"Visual pathways alone account for more than 50% of the brain's pathways and, therefore, are commonly affected by concussion"

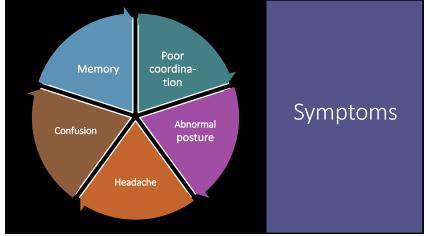
Steve Devick, O.D., Co-Founder King Devick Screening Test







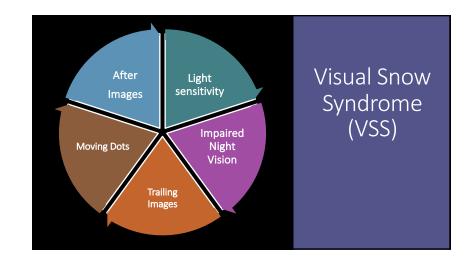




How would you feel?

The consumption of soft drinks by American youth is increasing. National dietary surveys show that carbonated soft drink consumption more than doubled in youths aged 6 to 17 from about 5 ounces per day in 1977-78 to 12 ounces in 1994-98, the most recent years for which national data is available. Adolescent boys' soft drink consumption more than tripled during those years.

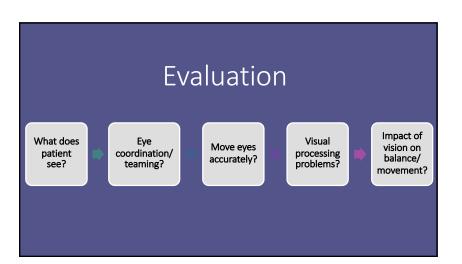
There are at least two negative results to this soft drink explosion. First, the use of soft drinks is likely related to the rise in childhood obesity. A variety of studies suggest that we don't eat fewer calories from other sources when we increase calories from beverages. If a child drinks 9 to 10 ounces of a soft drink, that's equivalent to almost 120 calories.





Visual Snow Syndrome (VSS)

VisionSimulations.com



What does a convergence insufficiency patient reading look like (top, bottom post VT)?

Defore the 1840s, men relied on single shot infles, and stow loading cost many lives during Indian raids. Samuel Colt was fascinated with guns in his youth. While working on board ship. Cott whittled a model of a "revolved" which could shoot five limes without reloading. It is said that he ship's where lives the insignation for the revolving shall and the ship's where lives the insignation for the revolving shall be able where lives the insignation for the revolving failed due to poor maruncluting methods. At the start of he war with hexico, the U.S. Army ordered one thousand revolvers. It was then that the six-shooter was manufactured. The six-shooter was called "the gun that won the West."

Courtesy of Dr. Parcick Quaid, MCOptom, FCOVD, PhD Som Ehrich Weise In 1974, he took its professional name from the Franch magician. Houdin, ho tock or straight jeckt no handcuff or sealed chest could restain Harry Houdin. To secure publicity, he would vanish from the prison of each try where he appeared. A modest man, he performed his tricks with apparent ease, stating that they were based natural laws. He was angreed by mediums and others who claimed to have supernatural power, and sperf much line and energy in exposing such flauds. An authority on magic, he willed this collection of writing to the Library of Congress is to on of the most compile in the word.



Visual Midline/Spatial Processing

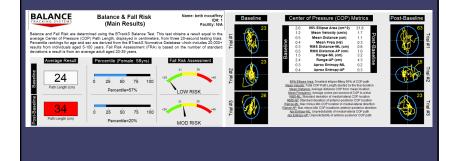
- Neuromotor difficulties:
 - balance/ coordination/ posture
- Shift in visual midline
- Lean to side, forward or backward
- With hemiparesis?



Midline/Balance Evaluation



Midline/Balance Evaluation



What's the solution?



Occlusion

Lenses/prisms

Rehabilitative vision therapy





Lenses/Prisms

GOALS IN PRESCRIBING: Refractive

Focus

PRISM VIDEO

Spatial

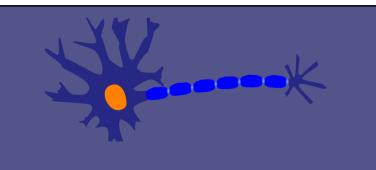
Binocular

Rehabilitative Vision Therapy

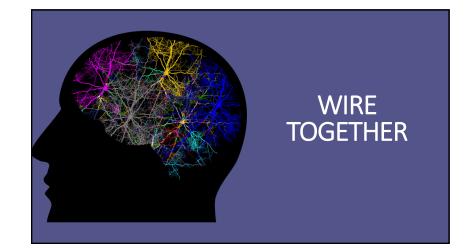


Rehabilitative Vision Therapy





Neurons that fire together...



Vision Rehabilitation

Our goal is to remove the visual barriers...

To make visual tasks, (reading, driving, moving) effortless.

Reduction in Sports Concussion

Article > An Exploratory Study of the Potential Effects of Vision Training on Concussion Incidence in Football Joseph F. Clark, PhD, ATC, Department of Neurology & Rehabilitation Medicine, University of Clincinnat, Cincinnat, Ohio

Results: During the 2006-2013 pre- and regular football seasons, there were 41 sustained concussion events reported. The overall concussion incidence rate for the entire cohort was 5.1 cases per 100 player seasons. When the data were evaluated relative to vision trained versus referent untrained player seasons, a statistically significant lower rate of concussion was noted in player season in the vision training cohort (1.4 concussions per 100 player seasons) compared to players who did not receive the vision training (9.2 concussions per 100 player seasons; p<0.001). The decrease in nijury frequency in competitive seasons with vision training was also associated with a concomitant decrease in missed play time.

Discussion: The current data indicates an association of a decreased incidence of concussion among football players during the competitive seasons where vision training was performed as part of the preseason training. We suggest that better field awareness gained from vision training may assist in preparatory awareness to avoid concussion-causing injuries. Future large scale clinical trials are warranted to confirm the effects noted in this preliminary report.

We are gathering support!

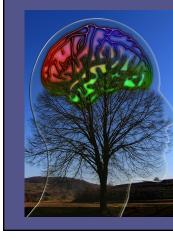
Vision Therapy and Traumatic Brain Injury

Eric Singman MD PhD Milton & Muriel Shurr Director, Wilmer General Eye Services Clinic Johns Hopkins Haspital, Wilmer B-29, 600 N. Walfe St., Baltimore, MD



TBI⁵, current evidence supports a multidisciplinary program⁴. As with any large team endeavor, co-ordination of responsibilities is necessary for success⁷. Among the critical members of this team, there should be vision specialists dedicated to working with patients who demonstrate deficiencies in eye teaming, loss of visual acuity and/or visual field as well as uncoupling of "visuospatial awareness". For the most part, the optometric and neuropsychological communities have embraced visual rehabilitation efforts; notably, these providers have documented successes in helping brain injury patients improve their quality of life^{8,310,112,213}.

With permission: Excerpt from Dr. Patrick Quaid's book: "Seeing is Behaving"



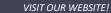
SUMMARY

Vision is in the brain

Vision impacts balance, posture, visual processing

There are successful rehabilitative vision SOLUTIONS!!





www.hbvision.net/about/events

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THANK YOU FOR ATTENDING!

0

Amy Elsila, OD AElsila@HBVision.net

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VISUALIZATION: VISION BEYOND SIGHT JANUARY 2021