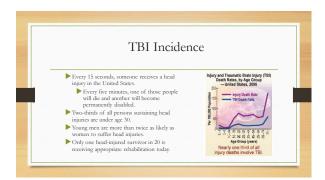


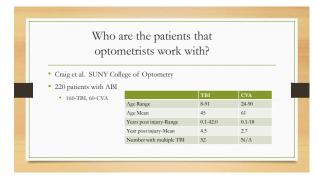
# Optometry's Role — The Past - Until about the mid 1980's - we just didn't see these people or if we did it was only to get them new glasses after they had recovered. - Until this time we didn't see many of these because plain and simple: most of them died. - Modern medicine is keeping them alive and some recover enough to seek out optometric services.

# Optometry's Role — The Present - We are now getting involved earlier and earlier with an ever more broadening scope. - Rather than being peripheral to the medical care of these patients we are now becoming an integral part of their health care team. - This means getting involved directly with many other health care practitioners.















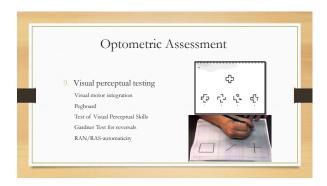


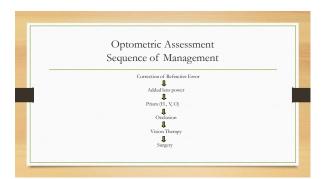


## Even More Problems Visual field defects Increased sensitivity to visual motion Visual inattention and distractibility Short-term visual memory loss Difficulty uidging distances Difficulty with personal grooming, especially involving the face Inability to interact/cope visually in a complex social situation (e.g., minimal eye contact) Inability to tolerate complex visual environments

# Optometric Assessment To evaluate the three key areas of vision: acuity, sensory motor and perception 1. Case history-COVD checklist 2. Observation – head tilt, non-comitant deviations 3. Eye Movements: King-Devick, NSUCO, ductions, versions, 4. Motor Alignment: CT and/or Maddox rod. 5. Accommodation (critical)- amp, near retinoscopy, facility, NRA/PRA, AC/A

### Optometric Assessment 5. Vergence: ranges and facility 6. Sensory fusion: W4D, Randot stereopsis 7. Internal and external ocular health, including tear film assessment 8. Visual field assessment-CF, Humphreys or Goldmann







You've Seen one brain injury...you've seen one brain injury We must think outside the box to treat brain injury!

History is crucial to understanding how to help the patient's needs and how best to help them.

Communication is an important aspect of your success.

Trust your instincts

If you don't know-Call a friend

There are 100's of ways to ask the same question

We are first and foremost "problem solvers"

Some patients follow patterns and some don't. Be prepared for both types!

Start where they are and go where they ain't

Case 1:Visual Field Issues

60 year old white female

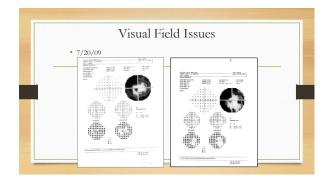
History of 2 CVA's 3 months prior

She was referred from her nephew who is a 4th year student at SCO

Complained of having to turn her head to the left of midline to see objects

She could not read for even short periods of time, had headaches, and motion sickness

Her private optometrist had not referred her for any further treatment.









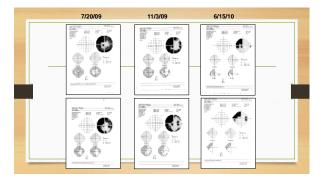


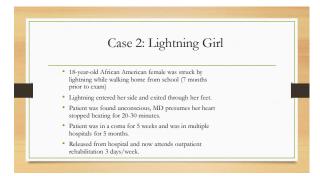
## Vision Therapy Oculomotor: stressing accuracy and equal (close to equal) eye movements Accommodation: monocular to binocular, then integrate with vergence... Speed, accuracy, stamina, sustainability then flexibility...emphasis on size and distance changes, eye feelings



# Vision Therapy The use of VT with prisms is very helpful! Can be monocular or binocular Expand field awareness Increase fusional capability Shifting visual space Disrupt perception

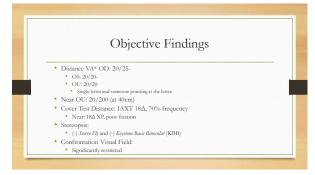
# Treatment Outcome Improvement seen much quicker than anticipated 12 sessions completed Original diagnoses-All reduced or eliminated Visual Field Defect Segnificant resolution-next slide Saccade Eye Dysfunction reduced about 10 fold Convergence Insufficiency Before-Intermittent alternating evotropia, reduced stereopsis After-low exophoria, improved stereopsis

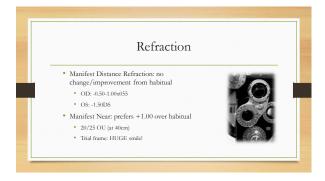


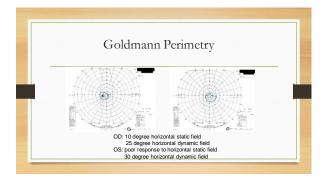


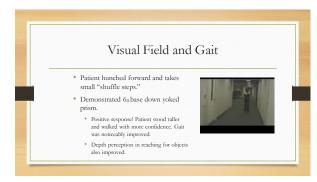












### 



