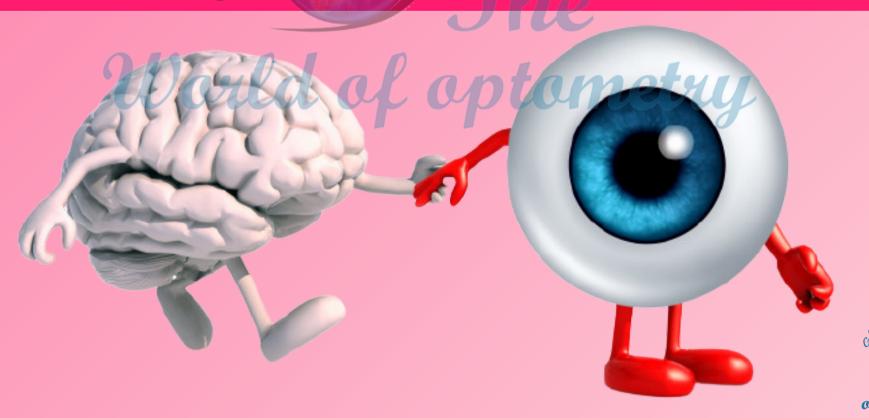
TWOP Discussion

BINOCULAR AND ACCOMMODATIVE PROBLEMS ASSOCIATED WITH ACQUIRED **BRAIN INJURY**











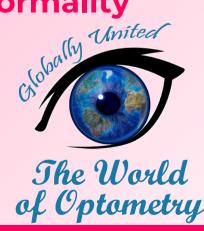
INTRODUCTION

ABI is generally used to refer to both traumatic brain injury (TBI) and stroke or cerebrovascular accident (CVA).

TBI also refers as an occurrence of injury to the head that is documented in a medical record, with one or more of the following conditions attributed to the head injury:

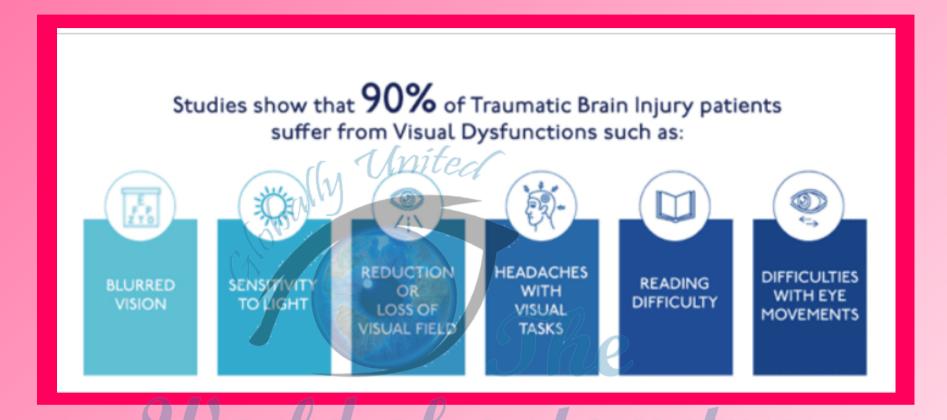
- self-reported decreased Observed of consciousness optometry
- Skull fracture
- Objective neurologic or neuropsychological abnormality
- Diagnosed intracranial lesion

TBI may result in significant impairment of an individual's physical, cognitive, and psychosocial functioning

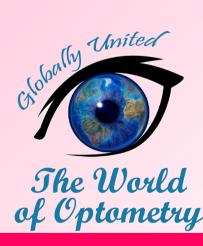




CHALLENGES



• The treatment accommodative, and eye movement disorders related to acquired brain injury (ABI) is one of the more challenging aspects of optometric practice.



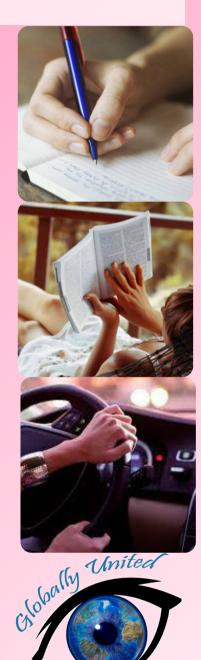






OPTOMETRIST ROLE

- Vision problems are common after ABI, and they have a significant negative impact on common activities of daily living, such as reading, writing, shopping, dressing, sports, and driving.
- The role optometrist's includes management of refractive error; binocular vision, accommodative, and eye movement disorders; visual field loss; ocular disease; and other visual manifestations of ABI.
- Due to the complexity of ABI, it is crucial for optometrists to work closely with the rehabilitation team.



The World

of Optometry

SYMPTOMS

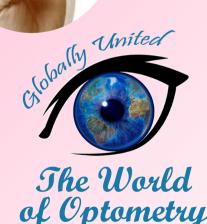
Symptoms of Vision Problems Associated with Acquired Soally United

Brain Injury



- Headaches
- **Blurred vision**
- **Double vision**
- Inability to read a land antomet
- Difficulty concentrating on reading material
- Loss of place when reading
- Poor balance and coordination
- Dizziness
- **Light sensitivity**











EVALUATION

- Tests For Accommodation
- Tests For Convergence Anomalies
- Tests For Eye Movement Disorders
- Tests For Visual Field Loss

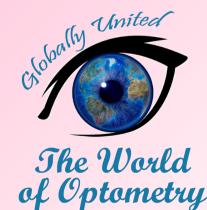


Other important testing:

- Fixation disparity testing ptom
- **Double Maddox rod test**
- Objective eye recording (Visagraph)
- Diagnostic occlusion

movement









#TwopDiscussion NEURO-OPTOMETRIC EVALUATION

neuro-optometry evaluation involves measuring examining how the eyes and the brain work together to see if there are areas of dysfunction that are causing symptoms:

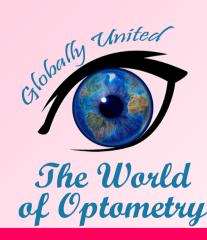


Motor Evaluation



Eye Movement testing

Oculomotor **function** testing





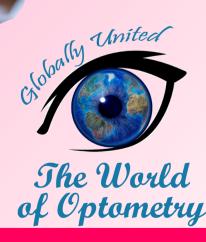


SEQUENTIAL CONSIDERATION

Sequential Considerations in the Management of Nonstrabismic Binocular Vision, Accommodative, and Eye Movement Disorders

- **Optical correction**
- Added lens power
- Horizontal or vertical prisms (yoked prisms/peli prisms)
- Occlusion in cases of diplopia
- Vision therapy
- Surgery









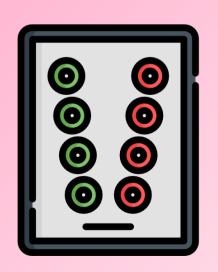
VISION THERAPY

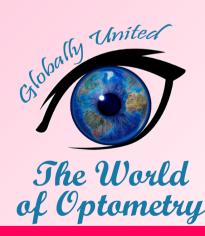
Neuro-optometric vision therapy apporach:

- Orthoptic vision therapy (to improve Binocular function)
- Behavioral/perceptual vision therapy
 - eye exercises (to improve visual processing and visual perception)















Wow, what cool content



Leave your comment



friends



Share with Save, to consult in the future



The World of Optometry



