Vision Rehabilitation Impacting Return to Occupation
After Post-Concussion Syndrome

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Synopsis

Vision rehabilitation is an emerging use of efficient occupation-based intervention in occupational therapy for vision impairment after concussion. Public awareness of untreated concussions has led to more patients seeking treatment for symptom remediation. Efficient interpretations of comprehensive vision evaluations followed by incorporation of vision therapy to treat improve performance outcomes, increase patient quality of life and ensure compliance of intervention.

Assessment Outcomes

A complex array of assessments should be utilized to measure limitations and interpret all patient challenges affected by the injury. Below are current pre/post assessment values in our clinic.

- **Canadian Occupational Performance Measure (COPM)**
  - Average Pre 1.49/1.31 Performance/Satisfaction
  - Average Post 9.60/9.64 Performance/Satisfaction
- **Cohen Stress Scale**
  - Average Pre 25 High
  - Average Post 11 Average
- **Convergence Insufficiency Symptom Survey (>16 symptomatic)**
  - Average Pre 30
  - Average Post 8
- **Mayo-Portland Adaptability Inventory-4 (<30 Good)**
  - Average Pre 44.06 Moderate
  - Average Post 11.96 Good
- **Visit duration**: Average of 4 sessions that are one time per week for one hour

OT and Concussion

Occupational therapy is an integral part of a multi-disciplinary team for a patient suffering from concussion. Vision rehabilitation, often requiring education and training, is an important role for our profession to remediate symptoms of headaches, dizziness, nausea, cognition, endurance, and emotional stress. It is important that the multi-disciplinary team uses a client-centered approach so each individual is aware of the multi-factorial challenges a person may be experiencing. Return to occupation can and should be completed in many ways due to the uniqueness of each plan of care. Working together as a team with the patient/family and clinical professionals will influence a positive return to school, work, and/or play along with emotional support as needed.

Occupational Therapy Approach to Vision Impairment

**Concussion/Traumatic Brain Injury**

**Evaluation**

**Intervention**

**Return to Occupation**

References


Conclusion

"Any of these visual complications can manifest as significant barriers to completing simple tasks and activities of everyday living (Barnett and Singman 2015)." Occupational therapists have the ability to seek out and perform higher level skills of training and apply it with evaluation and intervention. Providing this care alongside multiple disciplines promotes evidence-based models of care and quality treatment. Our profession should continue to pursue more research for this field to warrant our expertise with this patient population.

Acknowledgements

Thank you to the Jefferson community, physicians and rehabilitation department for ongoing support and guidance with patient care. I’d like to express my appreciation for all patient relationships that have helped me personally and professionally throughout the challenges of their recovery.