Case study: Carly

Patient is a 54 year old female diagnosed with cranial nerve VI palsy following a brain tumor resection. She is the primary caregiver of 2 children, ages 12 and 10 years old.

Complaints

- Diplopia at intermediate and distant ranges
- Difficulty judging distances while driving or putting away items in cabinets
- Double vision worsens in open spaces and on stairs/escalators

Vision screen findings

- Decreased range of motion temporally in right eye past midline
- Esophoria of 6 at near and esophoria off the card at far
- Visual fields appear full during confrontation testing
- Right eye suppression on Worth 4 dot test at 10 feet

Cognitive

Alert and oriented x3, good historian. Follows multistep commands

Physical assessment

 Decreased dynamic standing balance which worsens in crowded or visually stimulating environments

Social

- The patient enjoys reading mystery novels, shopping, and was working in the United Nations as a secretary.
- The patient now lives with her children in an apartment with 3 steps to enter.
- 1. Why does she complain of double vision at far but not at near?
- 2. What is the first exercise you would try with this patient?
- 3. Describe treatment plan in detail, include referrals and how should we measure progress?

Case Study: Suzanne

Patient is a 20 year old female who sustained a concussion after she was the driver in MVA 2 months ago. Patient tried to return to school but having symptom exacerbation during classwork. She presents to therapy with the following complaints:

Complaints:

- Fatigue, eyestrain and headache with reading
- Difficulty copying notes from powerpoint slides in class
- Sensitivity to light and screens
- Difficulty attending to information from teacher while she walks around the room

Vision screen findings

- Near acuity is 20/50 in both eyes at near. She does not wear corrective lenses
- Pursuits are jumpy but ROM is full
- Overshooting/Undershooting noted during saccade testing
- Horizontal DEM (subtest C) is 57.00 seconds
- Accommodation is 8 inches in both eyes (5 D)
- She requires increased time to appreciate depth
- Eye alignment testing is 10 exophoria at near
- Convergence break point is 10 inches (25 cm)
- Your patient noted to pull away from target during convergence testing

UE Physical Assessment

- Patient noted to slump in chair throughout screening
- Patient holding head during all reading tasks
- Shoulders elevated with palpable tension in neck and upper back

Cognitive

- Patient is alert and oriented x3, able to follow multistep commands and memory is intact
- Patient is noted with increased distractibility and poor attention

Social

- Patient lives at home with mother. Mother works full time
- Patient is commuting to campus daily, via car. She is driving
- Patient noted with increased anxiety and reports increased depression due to sypmtoms
- 1. Why might this patient be having difficulty reading/studying in school?
- 2. Why might she be having difficulty copying notes?
- 3. Describe your treatment plan, including providing education, resources, and referrals.
- 4. What are 3 exercises you might try with her?

Case Study: Zach

Patient is a 78 year old male who underwent pacemaker placement and when he awoke from surgery he had a new onset of blurred vision. CT scan revealed new right MCA infarct. He was seen by neuro-ophthalmology who performed Humphrey Test and he presents to therapy with left homonymous hemianopsia.

Complaints

- Bumping into items on the left
- Difficulty making sense of what he is reading
- Blurred vision

Vision Screen findings:

- Smaller saccades when looking left; increased refixations
- During pursuit testing, patient losing target when looking left
- Visual field confrontation testing reveals dense left homonymous hemianopsia

Physical Assessment

- Using RW for balance
- UB and LB strength WFL

Cognitive

Minimal short term memory deficits and decreased attention

Functional observations

- Patient hits left side of door frame with RW when entering and leaving your office
- Patient positions objects on his right side during testing (i.e. holding DEM testing booklet in right space).
- 1. How would you rule out spatial neglect and visual field loss?
- 2. What are some compensatory treatment activities you would have this patient perform or engage in?
- 3. What are remedial treatment activities you would have this patient perform?