

# IS IT SAFE TO DRIVE AFTER A CONCUSSION

Motor vehicle crashes are the leading cause of TBI hospitalizations for adolescents and persons 15-44 years of age.

- Centers for Disease Control and Prevention



- Driving is a complex process involving coordination of concentration, attention, visual perception, insight and memory, which can all be affected by concussions.
- 26% of concussion patients continue to experience neuropsychological deficits once asymptomatic.

## **DRIVING BEHAVIORS**

Even when asymptomatic, those with a prior concussion experienced 32% more lane excursions than the healthy control group.

Asymptomatic concussion patients exhibited poor vehicle control when navigating curves.

• Lane curves are the 2nd most fatal driving maneuver according to the National Highway Traffic Safety Administration

Patients diagnosed with a concussion took an additional 25 feet to stop a car and were .45 seconds slower to identify traffic conflicts.

### **HEALTHCARE PROVIDER MANAGEMENT**

83% of physicians felt that concussion put individuals at a greater risk of a motor vehicle crash yet the majority (51%) do not regularly counsel their patients about driving.

"Currently, no widely adopted return to driving protocols exist." - American Medical Society for Sports Medicine

# 99% of nurse practitioners

reported relying on symptom-based evaluation rather than using standardized tools.

82% of physicians

reported not using standardized testing to determine whether an individual is ready to return to driving.

### PATIENT PERCEPTION

38% of concussion patients feel "very unsafe" driving.

56% of those diagnosed with a concussion did not refrain from driving at any point following their concussion.

• 31% indicated they did not refrain from driving because a healthcare provider had not advised them to do so.

### RETURN TO DRIVING RECOMMENDATIONS

Concussion patients should refrain from driving until cleared by a healthcare provider and should be given guidance on extra precautions to take when returning to drive after a concussion:

- minimize distractions
- · minimize night driving
- drive short distances
- avoid following cars closely

#### **REFERENCES**