



Team Development of a Pre-Driving Screen Program

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Screening objective

- Objective feedback to medical provider
- Assist patient and families with decision-making
- Develop sustainable screening for our current patient caseload

Patient populations

- Primary population: TBI & ABI
- Secondary population: SCI
- Practice settings
 - Acute care, IRF, & outpatient
 - Outpatient: brain rehab & cognitive rehab
 - Adults & pediatrics



Stakeholders

- Patient and family
- PMR medical team
- Occupational therapy
- Neuropsych, SLP, PT
- Specialist referrals (internal)
 - Neuro-optometry
 - Neurology
- On road assessors (external)
- Family and community medicine (excluded)



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Pragmatic considerations

- Budgetary concerns
- Patient volume
- Time commitments
 - Scheduling simplicity
 - Patient commute to clinic
 - Minimize treatment time lost
- Patient buy-in



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Restrictions

- No well elderly, primary care referrals
- No neurodegenerative referrals
- Must have driven prior to injury
 - Brain pediatric population
- 60 minute sessions
- Efficient documentation



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Patient expectations

- Buy in
 - Patients want to pass
 - Impacts adherence to recommendations
- Apparent, direct relationship to driving
 - “I want it to feel like driving”
 - “What does driving have to do with this?”
- Time commitment
- “Practice” the assessments
- Cost



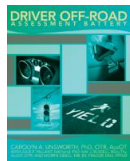
Stand alone assessments

- Off market
 - AAA Roadwise
 - Driving Health Inventory
- DriveAble Cognitive Assessment Tool (DCAT)
 - Manufacturer normative data
 - Low patient volume



Stand alone assessments

- Occupational Therapy Driver Off Road Assessment Battery (OT-DORA)
 - Time intensive
- Stroke Drivers' Screening Assessment
 - European and United States versions
 - USA version: predictive accuracy



Our program: Physical assessment

Always included

- Tone
- ROM
 - Upper extremities
 - Lower extremities
 - Cervical
 - Trunk
- Strength
- Sensation

Added if appropriate

- Balance assessments
- Coordination
- Other assessments



Our program: Vision

Always included

- Corrective lenses
- Ocular alignment
- Ocular range of motion
- Smooth pursuits
- Saccades
- Converge/divergence
- Field cuts
- Inattention

Added if appropriate

- Neuro-optometry consult
- Acuity (Snellen's chart)
- Contrast sensitivity
- Peripheral vision
- MVPT-4
- UFOV (pending)
- Other assessments



Our program

- Brake Reaction Time
 - RT Reaction Timer from Advanced Therapy Products
 - 10 trials
 - Mean recorded in EMR
 - Age-related normative data