Financial disclosure: the speakers have no relevant financial or non-financial relationships to disclose.

The material in this presentation is for general clinical knowledge, and it is not considered treatment recommendations for specific patients.
Objectives

- Identify 3 physical conditions that could benefit from listed in the state guidelines which may limit the ability to drive a vehicle?

- List 3 types of assistive devices available to assist a person with a disability to continue driving.
Special driving examination:

Conditions such as:

- loss or impairment of joint or extremity,
- Rheumatic,
- arthritic,
- orthopedic,
- muscular,
- vascular,
- neuromuscular disease

May be required to undergo a special driving examination which restricts them to driving only when utilizing appropriate adaptive equipment.
Good Shepherd’s Driving Program

- 2 hour evaluation
- 1st hour clinical-strength, ROM, coordination, sensation, reaction time, vision screening, perceptual testing
- 2nd hour behind the wheel
- Written report and recommendations provided to physician.
How does someone get referred?

• Self Referral
• Physician Referral
• Family Referral
• Office of Vocational Rehabilitation
• Require a prescription from your physician
Auto Manufacturers are installing “technology” in newer vehicles to reduce crashes

- Lane departure recognition
- Forward Collision Warnings
- Brake override system (Hyundai in all 2014 models) release the throttle when the brake is applied
• Adaptive Headlights
• Lane departure prevention
• Blind spot detection
• Park Assist/ Backover prevention
• Electronic Stability Control (standard on 2012 and later models)
• Adaptive Cruise Control
Aftermarket Technology

- Panoramic Mirrors
- Hicks
- Blind Spot Mirrors
- Raintracker
Mobileye
Hicks’s driver’s side mirror

Field of view of about 45 degrees, compared to 15 to 17 degrees of view in a flat driver’s side mirror.

Unlike in simple curved mirrors that can squash the perceived shape of objects and make straight lines appear curved, in Hicks’s mirror the visual distortions of shapes and straight lines are barely detectable.
Blind Spot Mirrors
Panoramic Rearview Mirror
Steering Knob
Limited hand function options
Sure Grip hand controls
Mounting of controls
3700 series hand control with tri pin handle
Key extension
Left Foot Accelerator

Pedal Extensions
Secondary Controls
Foot steering
Horizontal Steering
Voice Scan
Steering Column Extensions
DSI
Companion Seat
Lowered Floor Minivan Conversion
Car Topper
Honda Element

Finally, an Accessible Vehicle that fits your lifestyle AND your personality...

NO LIMITS...

ture freedom

Freedom Motors. Freedom redefined.

The X-WAV

Honda Element Corporation

Good Shepherd Rehabilitation
GoShichi Truck

Video
Ryno Truck Conversion
Bruno Outrider

Video
Bruno Curbsider
Joey

Outsider
Scion
Chrysler PT Cruiser
Leisure options
High Tech Driving System makes anything possible!
Adaptive Driving Resources:

- ADED (Association for Driving Rehabilitation Specialists) - [http://www.driver-ed.org/i4a/pages/index.cfm?pageid=1](http://www.driver-ed.org/i4a/pages/index.cfm?pageid=1)
- VCI Mobility – [www.vcimobility.com](http://www.vcimobility.com)
Adaptive Driving Post Test

1. What physical condition(s) may limit the ability to drive a vehicle?
   1. A patient was recently released from the hospital for a severe stroke with cognitive limitations and extreme right upper/lower extremity weakness.
   2. A patient has bilateral upper extremity weakness (but good control), good cognition, good lower extremity strength and control and great vision.
   3. A patient with a learning disability that can ride a bicycle, is good at sports and has taken the schools driver training course.
   4. A patient that has a left hand amputation, has good lower extremity strength and coordination and good right upper extremity strength and coordination.

2. What type of assistive devices available to assist a person with a right arm amputation?
   1. Left foot gas pedal adaptation
   2. Knob that is placed on the steering wheel and controls for turn signals.
   3. Hand controls for gas and brake.
   4. None of the above
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