Technology for Driving Independence:
How Will I Drive to My New Job, Run Personal Errands, Care for My Family?

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Objectives

Attendees will be knowledgeable regarding options for independent driving and appropriate timing of referrals

- Identify the impact independent community mobility has on all drivers
- Describe an appropriate referral
Objectives

- Identify adaptive driving equipment and technology
- Understand the need for an adaptive driving assessment and training
- List the process of becoming a driver with equipment or techniques.
Community Independence

“You have given me a gift that is invaluable. There is no amount of money I would not spend to do what I want, when I want to do it.” K.Y., 10 yrs post right CVA

“I will be able to drive myself, instead of asking my teenage children to drive me!”, K.D., Multiple Sclerosis
Community Independence is about choice:

Choose a job we enjoy
- Not one that is near a spouses job
- Not one that is on the bus route

Choose to change jobs
- Not keep one because it is close to home

Choose where to live for community, schools, home choice
- Not near outpatient rehab or doctors office
Community Independence is about choice:

Choosing to participate in the neighborhood car pool

Choose when you are available for an appointment

Choose to pick your children up from school

Choose to run an errand NOW!

Choose to volunteer
Adaptive Driving Equipment

Mechanical Modifications
- Hand controls
- Left foot accelerators
- Steering devices

High Tech Modifications
- Electronic Gas and Brake
- Electronic steering wheel
- Orthotics
Mechanical Modifications

Hand Controls – Left mount
Mechanical Modifications

Hand Controls
Mechanical Modifications

Hand Controls – Floor, Right Mounted
Mechanical Modifications

Left Foot Accelerator
Mechanical Modifications

SPINNER KNOB  SINGLE POST
Mechanical Modification

PEDAL EXTENSIONS

PEDAL BLOCK
Mechanical Modifications

GEAR SHIFT

EMERGENCY BRAKE
Transfer Assistance

PLATFORM LIFT

FULL SEAT LIFT
Wheelchair Accessible Vehicles
High Tech Modifications

Driver Station
Primary Driving Controls

Electronic Gas and Brake
Primary Driving Controls

Electronic Steering Wheel
Primary Driving Controls

Joystick

Electronic steering, acceleration and braking

- Dual Axis
- Single Axis
Secondary Driving Controls

Touch pad
Seating Options

Power Seat Base
Seating Options

Electronic Wheelchair Restraint
Technology Applications

Shoulder Cuff
Technology Applications

Shoulder Cuff
Technology Applications

Driver Station
Technology Applications

Custom Arm Rest
Technology Applications

Custom Arm Rest
Technology Applications

Steering Device
Reduced Effort Steering
Technology Applications

Joystick Functions
Driving Assessments

Adaptive Driving Assessment
- Change in medical status, need for adaptive equipment

Senior Assessments
- Unsure of driving safety, close calls, police issued tickets

Potential to Drive Assessments
- Learning disability, Asperger's syndrome
- Unique equipment needs
- Unsure if driving is appropriate at this time
Driving Assessment

Clinical Assessment
  ◦ Focus on specific driving concerns depending on diagnosis

Behind the Wheel Assessment or Passenger On Road Assessment
  ◦ Practical test to demonstrate skills,

Vehicle Assessment
  ◦ Most appropriate equipment for vehicle as well as client
Driver’s Training

Adaptive Equipment

◦ May try different equipment to ensure the most appropriate equipment is recommended

◦ Equipment use must become reflexive and automatic for safe use on the road

◦ Identify additional equipment needs to ensure all functions of the vehicle are easy to use
Driver’s Training

Adaptive Techniques

◦ Confirm new techniques or recommendations are incorporated into daily driving skills

◦ Develop driving routes that optimize the client’s skills

◦ Develop more appropriate driving habits
Client Referrals

Who should be referred?

- Anyone who is unable to operate the vehicle or is concerned about how they drive
- Those who have maximized their rehabilitation
- Clients for whom driving is not contra-indicated by their diagnosis or length post-diagnosis
- Individuals who understand the economics of owning and maintaining a vehicle
Client Referrals

How to get started

◦ Pre-Authorization if needed
◦ Client demographics to contact and appropriately schedule
◦ Prescription for Adaptive Driver’s Training
◦ Schedule Assessment

Next Steps

◦ Assessment
◦ Recommendations
Final Steps to Being an Independent Driver

MVD - Medical Review Program reviews medical updates for drivers with medical conditions

- Driver is informed via mail that license will be cancelled in 30 days unless medical report is submitted stating fitness to drive.
- MVD accepts info from courts, physicians, other motor vehicle departments, police and family members.
Medical Examination Report

Medical Examination Report

FOR PHYSICIAN: Complete this section for all persons.

Name

For physician

Date

Any past medical procedures or any treatments done in past medical history?

Yes

No

To same extent

Yes

No

Other:

Current Medication:

Prescription

Over-the-Counter

Pertinent Diagnostic Test Results As Of Last Physical Exam Today:

Recommendations for this person's medical condition: Is this person able to safely operate a motor vehicle?

Complete ONLY for persons with episodes of "faint consciousness":

Unable to maintain attention through the duration of evaluation

Unable to maintain attention through the duration of evaluation

Degree of control of epidemic adherence

In the past 12 months, any medications for episodes?

Yes

No

Medication Name

Dosage

Side Effects

Medication Name

Dosage

Side Effects

Was due to deliberate change in anticoagulant medication ordered by physician. Episodic control has since been established with reasonable medical certainty.

To occur only during sleep.

Secure free and established pattern of an sets of sufficient duration to allow an individual to safety cease operating a motor vehicle upon onset of the same.

Medical Information Release:

I hereby authorize this physician to release to the Motor Vehicle Division any requested medical information that is pertinent to my ability to safely operate a motor vehicle.

Physician Name

Medical Licensor

Date

Signature

Date

Signature

Date

Signature

Date
Restrictions

Visually Impaired

◦ Daylight hours only

Restriction Codes

◦ 8 different MVD codes
◦ Corrective lenses, mechanical aides, automatic transmission, radius restriction, other......

Shortened Licensure period

◦ Annual renewal, every 2 years
Licensure

Vehicle Modification Prescription

- A puzzle to fit together
  - Client
  - Driving equipment
  - Wheelchair/mobility equipment
  - Vehicle

Check-Out Drive

Licensing with restrictions as recommended
Questions?

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