

Driving And Community Mobility Services, Laws, And Resources For Physicians

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Objectives

- Distinguish types of driver services available in the community.
- Identify when a patient is appropriate for referral to a driving rehabilitation specialist.
- Understand state of Ohio driving laws and rules regarding medical conditions that result in physical and mental impairments.
- List available community mobility and driving resources for physicians and their patients.

SPECTRUM OF DRIVER SERVICES

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graph LR; A[Community Based Education] --> B[Medically Based Assessment, Education, and Referral]; B --> C[Specialized Evaluation and Training]
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Community
Based
Education

Medically Based
Assessment,
Education, and
Referral

Specialized
Evaluation and
Training

DRIVING PROGRAM



Our Team:

Doreen Knapke OTR/L, CDRS, ATP

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Cecilia Emery OTR/L, DRS

Emily Haffner MOTR/L, DRS

- Driver Training Instructor License from Ohio Department of Public Safety
- Certified Driver Rehabilitation Specialist (CDRS) from The Association for Driver Rehabilitation Specialists (ADED)

QUALIFICATIONS TO BE A DRIVER REHAB SPECIALIST

- 24 hours of observation of classroom
- 2 hours taking the role of the client behind the wheel
- 10 hours of observation behind the wheel
- 14 hours co-instruction of behind the wheel
- 2 hours behind the wheel being assessed by the Driving Program Manager

DRIVER REHAB

Disability Endorsement

- Required to do Driving Evaluation and Instruction with any client who has a disability
- Required for any training with in car adaptations

DRIVING REHABILITATION

- Promoting safety
- Maintaining independence
- Providing reasonable adaptations

ROLE OF THE DRIVING REHABILITATION SPECIALIST

- Complete comprehensive evaluations
- Recommend continuation, modification, or cessation of driving
- Driver education and training
- Community advocacy and awareness

EVERYONE HAS A ROLE IN DRIVING

Physicians, health care professionals, and families are on the front lines of observing medical conditions, safety concerns, and functional limitations that may have an impact on driving.

OHIO CODE

4507.08 Restrictions on issuance of license or temporary instruction permit.

“No temporary instruction permit or driver's license shall be issued to, or retained by, any of the following persons:

... Any person who ... is afflicted with or suffering from a physical or mental disability or disease that prevents the person from exercising reasonable and ordinary control over a motor vehicle while operating the vehicle upon the highways”

POPULATION

Adults and Teens

Common Diagnoses

- Cerebrovascular Accident
- Spinal Cord Injury
- Traumatic Brain Injury
- Parkinson's Disease
- Amputation
- Multiple Sclerosis
- Developmental Disability
- Alzheimer's
- Dementia
- Spina Bifida
- Cerebral Palsy
- Autism
- Dwarfism
- Aging population

Courts send DUI and prescription drug cases

TO REFER OR NOT TO REFER

REASONS TO REFER

Vision loss
Cognitive deficits
Medication side effects
Slowed reaction times
Neurological impairments
Musculoskeletal changes and limitations
Multiple falls
Neuropathy

NOT APPROPRIATE FOR REFERRAL

Moderate to Severe Dementia
Moderate to severe L side neglect
Nystagmus – Decreased gaze stabilization
Primitive Reflexes – Moro, ATNR
Freezing
Severe Anger Issues

HOW TO BE REFERRED

Requires a prescription

- Must have ICD-10 code(s) listed of the patient's diagnosis
- Must state “driving evaluation”

In determining fitness to drive, there is no single screening or assessment tool. Research supports a battery of clinical tests and an On Road Evaluation as being the best determinant for fitness to drive (Dickerson et al., 2014)

Comprehensive Driving Evaluation

Clinical Driving
Evaluation

On Road
Assessment



DRIVING PROGRAM COSTS

Self pay

OT Driving Evaluation	\$200.00
OT Driving In Car	\$175.00
OT In Car Training	\$100.00
OT In Car State Exam	\$150.00
OT Driving Re-evaluation	\$250.00

CLINICAL DRIVING EVALUATION

Review of medical
history and driving
goals

Visual Acuity

Visual Fields

Visual Perception



VISION REQUIREMENTS IN OHIO

Binocular

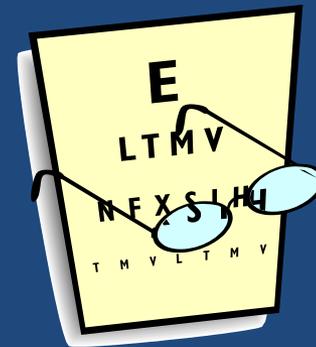
- Minimum Acuity 20/40 in each eye with or without lenses
- Day Time only: 20/50-20/60
- No License worse than 20/70

Monocular

- Minimum acuity 20/30
- Daytime only: 20/40-20/60
- No license worse than 20/60

Visual Fields

- At least 70 degrees in both eyes
- At least 70 temporal and 45 nasal (assessed by ophthalmologist or optometrist) for one eye



CLINICAL DRIVING EVALUATION

Road Signs

Rules of the Road

Cognitive skills

Strength

ROM

Sensation

ASSESSMENTS

- MOCA – Research has shown that a score of 16 or below is indicative of a Driver at risk
- Trails A – 25 secs pass
 > 67 secs (at risk)
- Trails B – 57 secs pass
 > 180 secs with 3 or more errors (at risk)
- Motor Free Visual Perception Test
 > 57% correct pass
 < 41% (at risk)
- For new Teen Drivers:
 CTMT
 Bot-2 shortened version

CLINICAL DRIVING EVALUATION

Driving Simulator

- reaction time
- visual attention
- visual scanning

Ability to trial vehicle
modifications



REVIEW OF RESULTS

- Continue to On Road Assessment
- Driving cessation
- Follow up with case manager
- Education with client and family
- Results sent to referral source

ON ROAD ASSESSMENT



Valid license or
temporary
permit required

Ohio Department Of Public Safety

4501-7-06 Qualifications for instructing persons with a disability for class "D" license schools.

... (A) No school shall offer behind-the-wheel training programs for persons with a disability unless that school employs a driver training instructor who is certified by the director to provide training for persons with a disability.

No instructor shall provide behind-the-wheel training to a student with a disability unless that instructor has been certified by the director to train persons with a disability. ...

ADJUSTING TO THE VEHICLE



ADAPTIVE EQUIPMENT



ADAPTIVE EQUIPMENT



ADAPTIVE EQUIPMENT



ON ROAD ASSESSMENT



Parking lot

Residential

Commercial

Highway

**Based on client performance and
driving habits**

AFTER THE EVALUATION/TRAINING

Discussion of results and
recommendations with client and family

Report sent to the referral source

OHIO CODE

4507.14 Registrar to impose restrictions suitable to driving ability.

“The registrar ... may impose restrictions suitable to the licensee's driving ability with respect to the type of or special mechanical control devices required on a motor vehicle that the licensee may operate, or any other restrictions applicable to the licensee that the registrar determines to be necessary.”

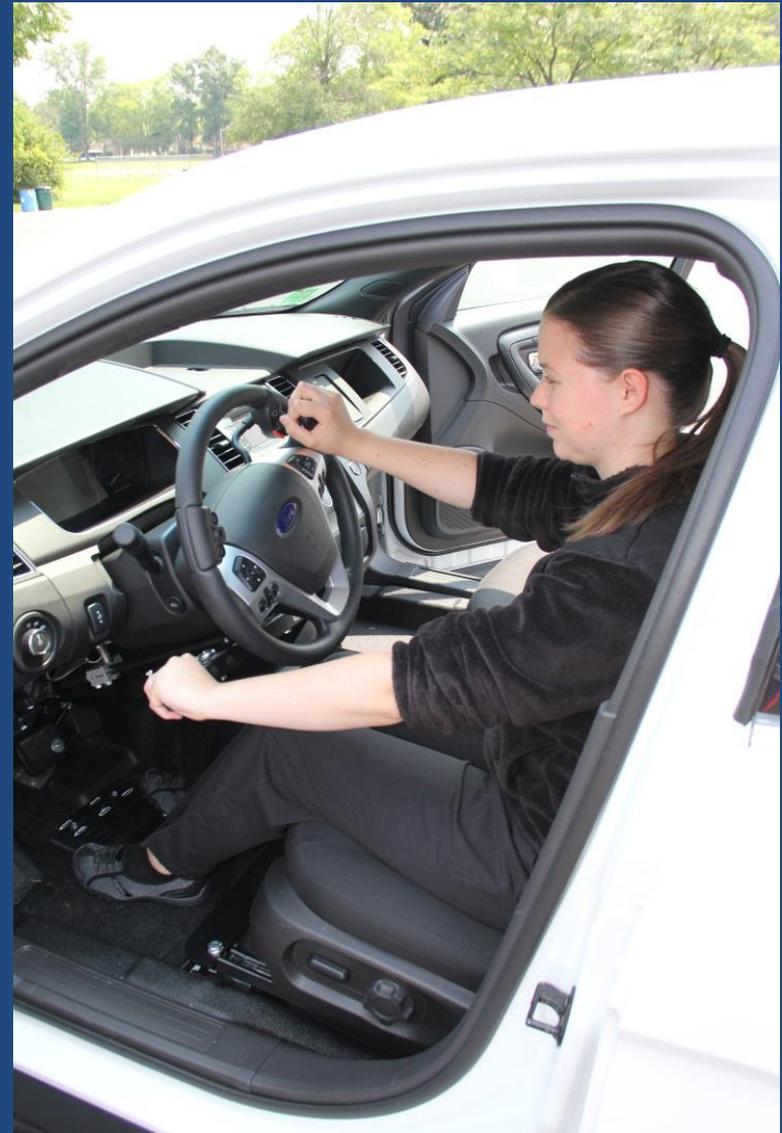
ADAPTIVE EQUIPMENT



Left Foot Accelerator



ADAPTIVE EQUIPMENT



Hand Controls

TRAINING

- Using adaptive equipment
- Managing mobility devices



Training Process

Reports get sent to the referral source

Physician Form sent to state

PHYSICIAN FORM



REQUEST FOR STATEMENT OF PHYSICIAN

DX / FILE NUMBER
PATIENT DRIVER LICENSE NUMBER

PATIENT INFORMATION (Type or print in ink)

PATIENT FIRST NAME	LAST NAME	MI	DATE OF BIRTH
ADDRESS	CITY	STATE	ZIP CODE
		PATIENT PHONE NUMBER	

Check here if this is a name or address change.

RELEASE OF INFORMATION

I hereby authorize and request information regarding my physical and mental condition be released to the Driver License Division, Bureau of Motor Vehicles.

PATIENT SIGNATURE X	DATE
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PHYSICIAN'S STATEMENT

If new patient, are records of previous physician available? Yes No

PREVIOUS PHYSICIAN NAME			
ADDRESS	CITY	STATE	ZIP CODE

Is this patient being treated by another physician for any condition not being treated by you? Yes No

OTHER TREATING PHYSICIAN NAME			
ADDRESS	CITY	STATE	ZIP CODE

If yes, should the BMV contact the physician referenced above regarding driving privileges of this patient?

Yes No

Patient history and / or physical reveal the following:

- Yes No Vision abnormalities or eye disease (not correctable by eyeglasses)
- Yes No Musculoskeletal disorder (including loss of limb)
- Yes No Cardiovascular disease (e.g., Stroke, Angina, Heart failure, Hypertension)
- Yes No Respiratory disease (e.g., Emphysema, Asthma)
- Yes No Diabetes Mellitus and/or other Endocrine disorders
Insulin Dependent Yes No
- Yes No Neurological disease (e.g., Epilepsy, Multiple Sclerosis, Parkinson's disease)
- Yes No Impairment due to alcohol or drugs
- Yes No Psychiatric disorders
- Yes No Cognitive Impairment
- Yes No Other medical disorders which could interfere with driving ability

EXPLANATION REQUIRED FOR ALL ANSWERS ABOVE.

IMPLEMENTATION OF SECTIONS 4507.20; 4507.08 AND 4507.081 OHIO REVISED CODE, REQUIRES THE FOLLOWING INFORMATION BE PROVIDED:

1. How long has the condition(s) existed?

CONDITION	NO. OF YEARS	NO. OF MONTHS
CONDITION	NO. OF YEARS	NO. OF MONTHS

2. Give date of last episode or exacerbation.

CONDITION	YEAR	MONTH
CONDITION	YEAR	MONTH

2A. If #2 is not applicable, how long has the condition been under effective medical control?

CONDITION	NO. OF YEARS	NO. OF MONTHS
CONDITION	NO. OF YEARS	NO. OF MONTHS

PHYSICIAN FORM

DX / FILE NUMBER

PATIENT DRIVER LICENSE NUMBER

3. Is medication prescribed? Yes No If yes, please list medications.

1.	3.	5.
2.	4.	6.

4. If medication is prescribed, has your experience with this patient indicated that he / she can be depended upon to take the medication regularly and as instructed? Yes No

5. If you have discontinued patient's medication, give date of termination.

YEAR	MONTH
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6. In your professional opinion, is this patient's condition(s), on this date, sufficiently under effective medical control to operate a motor vehicle?

PLEASE NOTE: IF YOU ANSWER "YES" TO PARTS B, C, or D BELOW, THE EXAM WILL BE CONDUCTED NOW. THE EXAM(S) WILL BE CONDUCTED AT A DRIVER LICENSE EXAM STATION.

- A. Yes. This patient **should be permitted to** retain driving privileges.
- B. Yes. This patient **should be permitted to** retain driving privileges **only if** they can pass a partial driver license exam which consists of a vision screening and a road test for driving and maneuverability.
- C. Yes. This patient **should be permitted to** retain driving privileges **only if** they can pass a vision exam.
- D. Yes. This patient **should be permitted to** retain driving privileges **only if** they can pass a complete driver license exam which consists of a vision screening, written test of Ohio's laws and signs, and a road test for driving and maneuverability.
- E. No. This patient **should not be permitted to** retain driving privileges.

7. In your professional opinion, should this patient be reevaluated in the future for continued driving privileges.

Yes No

If yes, reevaluation is required:

Once every six (6) months

Once every year

At time of driver license renewal (4 years or less depending on expiration date of current driver license or temporary permit)

(Print or type)

PHYSICIAN'S NAME	PHONE NUMBER	DATE	
ADDRESS	CITY	STATE	ZIP CODE
PHYSICIAN'S SIGNATURE X	PHYSICIAN'S LICENSE NUMBER		

NOTE TO PHYSICIAN: PLEASE MAKE A COPY FOR YOUR RECORDS.

OHIO BUREAU OF MOTOR VEHICLES, ATTN: SPECIAL CASE / MEDICAL UNIT, P.O. BOX 16784, COLUMBUS, OH 43216-6784

Training Process

State Exam - Restrictions are added

Vehicle Modifications

LIABILITY

- Physician
- Therapist
- Patient

VEHICLE MODIFICATION



- Bureau of Vocational Rehabilitation(BVR)
- US Dept of Veterans Affairs
- Worker's Compensation
- Automotive Insurance (if d/t a MVA)
- Major vehicle manufacturers offer rebates usually up to \$1,000
- NMEDA (National Mobility Equipment Dealers Association) familiar w/ rebates available
- GM Mobility, Toyota Mobility, Ford Mobility

Community Based Services

Community Based Education

- Driver Safety Programs
- Driving School

Medically Based Assessment, Education, and Referral

- Driver Screen (Physician, Psychologist, Social Worker)
- Clinical OT Evaluation

Specialized Evaluation and Training

- Driving Evaluation
- Driving Rehabilitation

AARP
DRIVER SAFETY

CARFIT 
Helping Mature Drivers Find Their Safest Fit



NEUROREHAB & BALANCE CENTER
KETTERING HEALTH NETWORK™

Resources

National Highway Traffic Safety Administration

- Offices guides for older drivers and disabled drivers for patients and medical professionals

"Spectrum of Driver Services: Right Services for the Right People at the Right Time" - See Handout

American Geriatrics Society - Clinician's Guide to Assessing and Counseling Older Drivers

The Hartford – Senior Guidebooks

- Can be ordered from: The Hartford Center for Mature Market Excellence

References

- American Geriatrics Society & A. Pomidor, Ed. (2016, January). *Clinician's guide to assessing and counseling older drivers, 3rd edition*. (Report No. DOT HS 812 228). Washington, DC: National Highway Traffic Safety Administration.
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- Ohio Rev. Code § 4501-7-06
- Ohio Rev. Code § 4507.08

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Images:

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QUESTIONS

