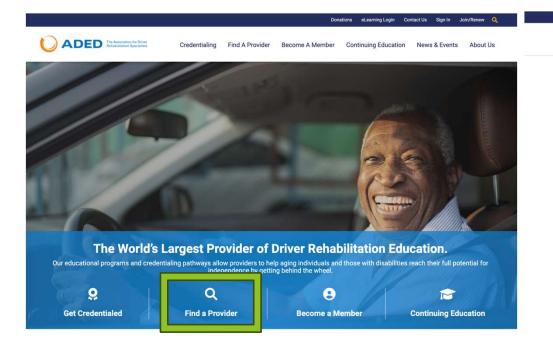


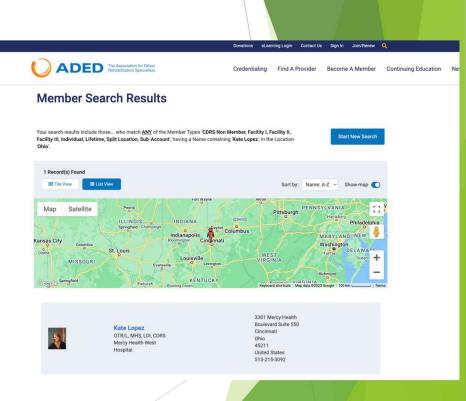
Driver Rehabilitation

- Driver Rehabilitation Specialists work with individuals of all types of abilities and disabling conditions
 - Driving Education/Training
 - ▶ Vehicle Modification/Driving Independence
 - Driver Cessation/Retirement
- Association for Driver Rehabilitation Specialists (ADED)
 - Supports professionals working in the field of driver rehab through Credentialing and Education
 - ► Certified Driver Rehabilitation Specialists (CDRS)
 - ▶ Gold Standard expert on full spectrum of driver rehab services
 - ▶ Driver Rehabilitation Professional (DRP)- microcredential
 - ▶ Information for the Public, Networking, and Directory of providers
 - www.aded.net



Directory:





Driving After Stroke



https://www.youtube.com/watch?v=P7NM5I-eLqs

Video by US Dept. of Transportation and NHTSA

Warning Signs in Driving After Stroke

(Adapted from "Driving and Stoke" a Factsheet from ADED)

- Inappropriate driving speeds (too fast or too slow)
- Needs help or instructions from passengers
- Doesn't observe signs or signals
- Slow or poor decisions (poor judge of distances, too close to other cars)
- Easily frustrated or confused
- Pattern of getting lost, even in familiar areas
- Accidents or near misses
- Drifting across lane markings into other lanes
- ▶ Hitting both pedals with one foot by accident



Driver Assessments: Fitness-to-Drive

► In-Clinic Assessment

- Visual-processing skills
 - ▶ Visual Acuity, Saccades, Pursuits, Depth Perception, Contrast Sensitivity, Peripheral Vision, Color Vision
 - ► Motor Free Visual Perceptual Test
- Cognitive Skills
 - ▶ MoCA, Short Blessed, Snellgrove Maze Test, Clock Drawing, MMSE, knowledge of Road signs
- Motor Skills,
 - MMT, ROM, Sensation, Proprioception, Coordination, Alternate Foot Tap Test/Reaction Time, diadokokinesis, balance, ability to get in and out of the vehicle
- ▶ Looking for any impairment that may impact driving performance
 - "Red Flags"
 - ▶ Is this permanent or temporary?
 - ▶ Does this require modification, remediation, retraining?

Driver Assessments: Fitness-to-Drive

- ▶ Behind-the-Wheel Assessment
 - Variety of road environments
 - ▶ Low to High Traffic, variety of intersections and obstacles
 - Highway if indicated
- Outcomes
 - Resume driving with or without restriction
 - Vehicle Modification and/or Driver Training
 - ▶ Continue with OT/PT/Speech intervention in indicated, return for reassessment
 - Driver Retirement/Alternative Transportation Methods



Vehicle Modification and Driver Training

Vehicle Modifications

- Steering Devices
- Left Foot Accelerator
- Accessory Controls
- Hand Controls
- Wheelchair securement
- Ingress/Egress assist
- Adapted mirrors
- High Tech (reduced effort steering, change in diameter of steering wheel, etc)

Driver Training

- Equipment Use
- ► Techniques (Hemianopsia scanning, etc)
- Ohio BMV requires retesting for any equipment modification
 - "Request for Statement of Physician" form to be completed









Liability and Legal Procedures in Ohio

- Ohio BMV- Medical Restrictions on Licenses
 - Visual Minimal Standards
 - Modified accelerator, brake, turn signal, hand controls, outside mirrors, corrective lenses, bioptics, etc

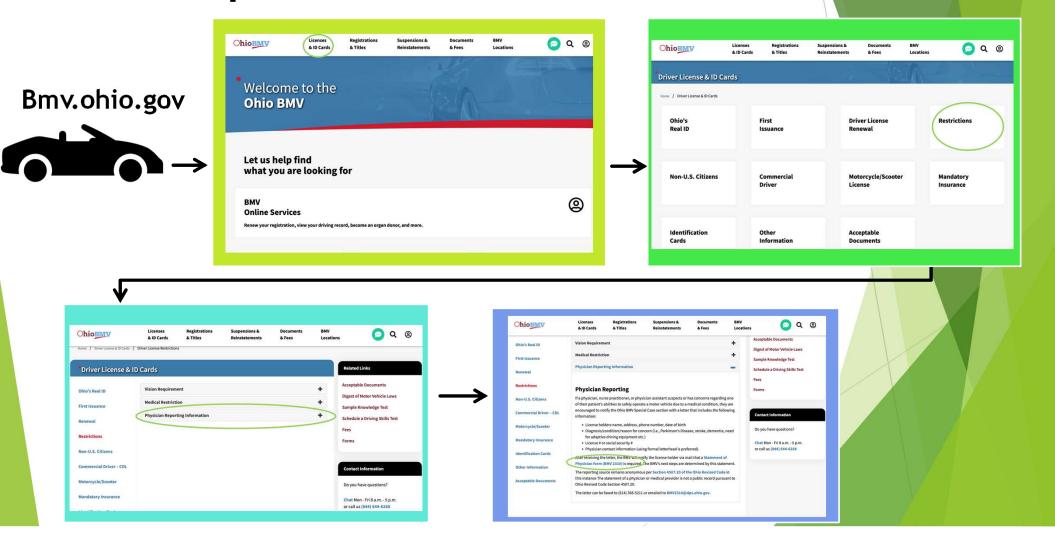
<u>Liability</u>

- Personal Liability
 - ▶ Attest to ability when you renew your license
 - ▶ Documented conditions, educate about impact on liability
- Physician Liability
 - Duty to Protect
 - Duty to Protect Patient Confidentiality
 - ▶ Balancing Ethical and Legal Duties
 - Patient should be advised of medical conditions, medications and devices that may affect driving performance
 - ► Know and comply with State Reporting Laws
 - Document Diligently





How to Report an Unsafe Driver:



State of Ohio

Physician Reporting

If a physician, nurse practitioner, or physician assistant suspects or has concerns regarding one of their patient's abilities to safely operate a motor vehicle due to a medical condition, they are encouraged to notify the Ohio BMV Special Case section with a letter that includes the following information:

- License holders name, address, phone number, date of birth
- Diagnosis/condition/reason for concern (i.e., Parkinson's Disease, stroke, dementia, need for adaptive driving equipment etc.)
- License # or social security #
- Physician contact information (using formal letterhead is preferred).

After receiving the letter, the BMV will notify the license holder via mail that a <u>Statement of Physician</u> <u>form (BMV 2310)</u> is required. The BMV's next steps are determined by this statement.

The reporting source remains anonymous per <u>Section 4507.20 of the Ohio Revised Code</u> in this instance The statement of a physician or medical provider is not a public record pursuant to Ohio Revised Code Section 4507.20.

The letter can be faxed to (614) 308-5211 or emailed to **BMV2310@dps.ohio.gov**.

https://www.bmv.ohio.gov/dl-restrictions.aspx#collapseB

Request for Statement of Physician

BUREAU	ARTMENT PUBLIC SAFETY J OF MOTOR VEHICLES STATEMENT OF PHYS	SICIAN		ILE NUMBER	ICENSE NUMBER
PATIENT INFORMATION (Type or print in ink					
PATIENT FIRST NAME	PATIENT LAST NAME		MI	DATE OF B	IRTH
ADDRESS	CITY	STATE	ZIP CODE	PATIENT P	HONE NUMBER
☐ Check here if this is a name or address chan	ige				
I hereby authorize and reque be released to the D	RELEASE OF INFORMATIO	physical a	or Vehicles.	ondition	
PATIENT SIGNATURE			DATE		
X					
PHYSICIAN'S STATEMENT - If new patient, a	re records of previous phy	sician av	/ailable?	Yes 🗌	No
PREVIOUS PHYSICIAN NAME					
ADDRESS		CITY		STATE	ZIP CODE
Is this patient being treated by another physic	ician for any condition not	being tre	ated by you	? 🗌 Yes	□ No
OTHER TREATING PHYSICIAN NAME					
ADDRESS		CITY		STATE	ZIP CODE
Yes No Musculoskeletal disorder (ir Cardiovascular disease (e.g., Fyes No Diabetes Mellittus and/or oth Yes No Nourological disease (e.g., Impairment due to alcohol of Yes No Psychiatric disorders	disease (not correctable by cluding loss of limb) g_, Stroke, Angina, Heart failumphysema, Asthma) ner Endocrine disorders Epilepsy, Multiple Sclerosis, or drugs ich could interfere with drivingers ABOVE. Implementation	Parkinsong ability	rtension) n's disease)		1 4507.081 of
CONDITION			NO. OF YEARS		NO. OF MONTHS
2. Give date of last episode or exacerbation.			YEAR	Ī	монтн
CONDITION			YEAR		монтн
2A. If #2 is not applicable, how long has the con	dition been under effective m		ontrol? NO. OF YEARS		NO. OF MONTHS
CONDITION			NO. OF YEARS		NO. OF MONTHS
BMV 2310 9/21 [760-0310] Page 1 of 2	RESTRICTED -	PII			

medication regularly and as instruct Yes No				P-1
4. In your professional opinion, is this operate a motor vehicle?	patient's condition(s), on thi	s date, sufficiently und	ier eπective me	dical control to
PLEASE NOTE: IF YOU ANSWER "YEXAM(S) WILL BE	YES" TO PARTS B, C, or D CONDUCTED AT A DRIVE			NDUCTED NOW. TH
A. Yes This patient shou				
 B. Yes This patient should license exam white 	Id be permitted to retain d ch consists of a vision scree			
C. Yes This patient shou				
D. Yes This patient shou license exam white for driving and ma	ch consists of a vision scree			
E. No. This patient shou		tain driving privileges.		
5. In your professional opinion, should	this patient be reevaluated	in the future for contin	nued driving priv	vileges?
☐ Yes ☐ No	****			
If yes, reevaluation is requ				
☐ Once every six (6) more ☐ Once every year.	ntns.			
Once every four (4) ye	ars.			
(Print or type)				
PHYSICIAN'S NAME		PHONE NUMBER		DATE
ADDRESS		CITY	STATE	ZIP CODE
PHYSICIAN'S SIGNATURE			PHYSICIAN'S LIC	CENSE NUMBER
10000				
X				
X				ed who signed the f
NOTE TO PHYSICIAN: PLEASE MAI	KE A COPY FOR YOUR RI	ECORDS. The Patien	t will be advise	
	KE A COPY FOR YOUR RI	ECORDS. The Patien	t will be advise	
	KE A COPY FOR YOUR RI	ECORDS. The Patien	t will be advise	
NOTE TO PHYSICIAN: PLEASE MAI	KE A COPY FOR YOUR RI	ECORDS. The Patien	t will be advise	
NOTE TO PHYSICIAN: PLEASE MAI Please Return: Mail: Ohio BMV			Fax: Attn: Special C	
NOTE TO PHYSICIAN: PLEASE MAI Please Return: Mail: Ohio BMV Attn: Special Case Unit	E-mail:		Fax:	
NOTE TO PHYSICIAN: PLEASE MAI Please Return: Mail: Ohio BMV	E-mail:		Fax: Attn: Special C	
NOTE TO PHYSICIAN: PLEASE MAI Please Return: Mail: Ohio BMV Attn: Special Case Unit P.O. Box 16784	E-mail:		Fax: Attn: Special C	

	rescribed, has your experience with this patient indicated that he / she can be depended upon to take the larly and as instructed?
 In your profession operate a motor 	nal opinion, is this patient's condition(s), on this date, sufficiently under effective medical control to vehicle?
	YOU ANSWER "YES" TO PARTS B, C, or D BELOW, THE EXAM WILL BE CONDUCTED NOW. THE XAM(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.
5. In your professio	nal opinion, should this patient be reevaluated in the future for continued driving privileges?
If yes,	reevaluation is required:
☐ Onc	ce every six (6) months.
☐ Onc	ce every year.
☐ Onc	ce every four (4) years.

** "Road Test" by BMV is <u>NOT</u> the same as a comprehensive driver's evaluation by a <u>CDRS</u>. If you want to have us complete an exam, wait for us to finish to help you determine which option to choose**

Ohio Revised Code 4507.20: Examination of licensee's competency

- ▶ A physician licensed under Chapter 4731. of the Revised Code may submit a report to the registrar stating that in the physician's professional opinion the holder of a driver's or commercial driver's license may be incompetent or otherwise not qualified to operate safely a motor vehicle due to medical reasons. Any such report submitted to the registrar is confidential, is not a public record, and is not subject to disclosure under section 149.43 of the Revised Code
- An investigation from the Ohio BMV Special Case Unit will initiate
 - ▶ Send letter to driver and request the physician form to be filled out within 30 days
 - ► No response = suspension of license and need to retake the Driving Skills Test including Maneuverability in Ohio to reinstate license
 - ▶ Many physicians utilize CDRS to help in choosing the best response

Kentucky....

Kentucky's Medical Review Office accepts reports from:

- Physicians
- Lawyers, Judges
- Law Enforcement Officers
- KSP license examiner
- County/circuit clerks
- OR 2 citizens with notarized signatures attesting to the concern of safety while driving



KENTUCKY TRANSPORTATION CABINET Department of Vehicle Regulation MEDICAL REVIEW OFFICE

TC 94-182 Rev. 1/2020 Page 1 of 1

Email: KYTC.N This form may be used to re enforcement officer, KSP lici agency, or judge, this form i motor vehicle due to a phys driver or his or her represen	IedicalReviewBoard@ky.gov port a driver with a physical or ment ense examiner, Commonwealth or co nust include notarized signatures of cal or mental condition. The Transpot tative; therefore, this document cann	treet, Frankfort, KY 40 Phone: (502) 564-: I impairment. Pursuant to unty attorney, county or c at least two (2) citizens a ortation Cabinet may be re not be kept confidential.	622, L257 FAX 6601 KAR 13:09 ircuit clerk, sher ttesting that the	: (844) 503-4111 0, unless you are a iff, relevant emplo driver is incapable	L physician, law yee of a governmen of safely operating
SECTION 1: DRIVER IN LAST NAME	FIRST NAME	ype.)	MIDDLE	NAMF	
DRIVER'S LICENSE NO.	SOCIAL SECU	RITY NO. (optional)	DATE OF	BIRTH (mm/dd	/уууу)
ADDRESS (street)	CITY		STATE		ZIP
leading to this report.					
(If reporting a seizure,) Date of last known seiz SECTION 2: REPORTIN Anonymous reports ca KSP license examin Law Enforcement C	G INDIVIDUAL(S) (Please print nnot be accepted. Please indice er Commonweal fficer County clerk of	t or type.) cate whether you are th/county attorney or circuit clerk	Emplo	oyee of governr	
(If reporting a seizure,) Date of last known seiz SECTION 2: REPORTIN Anonymous reports ca KSP license examin Law Enforcement C	ure (mm/dd/yyyy): G INDIVIDUAL(S) (Please print nnot be accepted. Please indie er Commonweal	t or type.) cate whether you are th/county attorney or circuit clerk quired below.	Emplo		Sheriff
(If reporting a seizure,) Date of last known seiz SECTION 2: REPORTIN Anonymous reports ca KSP license examin Law Enforcement C If none of the above, to	ure (mm/dd/yyyy): G INDIVIDUAL(S) (Please prininnot be accepted. Please indier Commonweal fficer County clerk of notarized signatures are required.	t or type.) cate whether you are th/county attorney or circuit clerk quired below.	Emplo	cian	Sheriff
(If reporting a seizure, pate of last known seiz SECTION 2: REPORTIN Anonymous reports ca KSP license examin Law Enforcement C If none of the above, tw	ure (mm/dd/yyyy): G INDIVIDUAL(S) (Please prim nnot be accepted. Please indie er Commonweal fficer County clerk co nontarized signatures are req FIRST NAME	tor type.) cate whether you are th/county attorney or circuit clerk uuired below. MI TITLE (if o	Emplo	cian	Sheriff MBER ZIP
(If reporting a seizure,) Date of last known seiz SECTION 2: REPORTIN Anonymous reports ca KSP license examin Law Enforcement C If none of the above, tv LAST NAME ADDRESS (street)	ure (mm/dd/yyyy): G INDIVIDUAL(S) (Please prim nnot be accepted. Please indie er	tor type.) cate whether you are th/county attorney or circuit clerk uuired below. MI TITLE (if o	Emplo	PHONE NUM	Sheriff //BER ZIP

Referrals to a Driver Rehabilitation Specialist

- Driver Rehabilitation Programs
 - ► Hospital-based programs
 - ▶ Billing through medical insurance (under Occupational Therapy)
 - Private Disability Driving schools
 - Comprehensive Driving Programs include in-clinic and on-the-road driver assessments
 - ▶ Some programs offer in-clinic assessments and then refer to on-the-road assessments
 - ► (Simulated driving evaluations should <u>never</u> replace actual driving to determine driving cessation)
- In-clinic assessment vs Comprehensive assessment
- Decision remains with the physician

Alternative Transportation Options

- Driver Cessation or Driver Retirement
 - ► Acknowledge the loss and impact to autonomy
 - Include caregivers in education
 - ▶ Refer to local alternative transportation options
 - ► Cincinnati Council on Aging has an evolving list of options
 - ▶ Medical-based transportation included in some insurances
 - ▶ Uber/Lyft- GoGo Grandparent for non-smartphone users
 - ► Community-based ride share options
 - Metro/Access/CASS
 - ▶ No, autonomous driving is not a replacement- yet- for driving



Questions/Comments?

Mark Wen:

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References

- McGuire, M.J., & Schold Davis, E. (2012). Driving and Community Mobility: Occupational Therapy Strategies Across the Lifespan. Bethesda, MD: The American Occupational Therapy Association, Inc.
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- Ohio Bureau of Motor Vehicles. (2023, September 15). Medical Suspension. https://www.bmv.ohio.gov/susp-other-points.aspx
- GeriatricsCareOnline. (2023, September 15). Driving: Assessing and Counseling Older Drivers (4th ed.).

https://geriatricscareonline.org/ContentAbstract//TK015/TK015_VOL001_PAR T005_SEC001_ITEM1/?param2=search

Videos of Mobility Equipment

- Left Foot Accelerator:
 - https://youtu.be/3tmUGmFfc2A?si=SL9gr__Yal8BkAzc
- Reduced-effort Steering:
 - https://youtu.be/O-Conwt_W0M?si=Ck-LfXA8qC1h4ABr
- Adapt Solutions- seating for ingress/egress (Link)
 - ► https://youtu.be/44lvapWLE0k?si=kggPEXQoiB-0V2R4
- Wheelchair Lift- Bruno
 - https://youtu.be/_zjJwmvxxAY?si=1ZKP92QfCz_MI__9

