Cognitively At-Risk Drivers: The Role of the MVA

Mary Anne Scottino M.D. Associate Chief, Medical Advisory Board Maryland Motor Vehicle Administration April 25, 2013



MVA Older Driver Safety



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ONLINE TRANSACTIONS	
Online Registration Renewa	đ

E-Mail Management Mopeds/Scooters/ORVs Scheduling Appointments More...

DRIVER SERVICES

Driver Education Information Driving Records Driver Licenses/ID Cards Motorcycle Safety Program More...

VEHICLE SERVICES

Disability Placards New to Maryland Title & Registration VEIP More...

BUSINESS SERVICES

Dealers

Licensed Tag & Title Services Towing/Ins. Contact Registry More...

ABOUT MVA

Employment

Older Driver Safety / Safe Mobility for Life

Driving may be tougher than you normally think of it. One example is coming up to an intersection and the signal light turns yellow:

- Your eyes must see it
- · Your brain must realize a decision needs to be made
- You must make a decision on whether you should stop based on past experience, knowledge of timing and distance, & awareness
 of your surroundings, and finally

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 Your body must engage to enact the decision to stop by activating your muscles, lift your leg and press on the brake. All this happens within just a few SECONDS!

Aging can affect your driving, but more importantly health affects your driving! Many older drivers don't face serious medical conditions or functional limitations that affect their driving, but ALL drivers need to know your risks, how to manage your risks, and be familiar with resources to help! These webpages are to help direct you, your family and professionals to the information necessary to consider for aging and potential effects on ability to drive safely.

Age alone does not make unsafe drivers, and licensing is NOT determined by a diagnoses. If someone questions whether you are medically qualified to drive, MVA focuses on functional ability ... not age or disease ... and provides an individual review or fitness to drive.

- Helpful Tips for Older Drivers
- Helpful Tips for Family & Friends of an Older Driver
- Helpful Tips for Health Care Professionals of Older Drivers
- Senior Driving and Health- Resource for Physicians & Patients
- Medications & Driving
- · Maryland Older Driver Safety Symposium
- Maryland Older Driver Statistics
- Additional Resources

Learning Objectives

Referral of drivers to the Maryland MVA
 Role of the Medical Advisory Board
 Fitness to Drive evaluation of a client
 Driving risk in clients with dementia

Most Older Drivers are Safe & Responsible

Avoid heavy traffic

- Avoid bad weather
- > Avoid nighttime and freeway driving
- > Map out safe routes to routine destinations
- Look for routes with right turns

Marottolli RA, et al: *J Gerontology* 1993;48:8255-8260

Physician's Guide to Assessing and Counseling Older Drivers



AMA REPORT OF COUNCIL ON ETHICAL & JUDICIAL AFFAIRS

E.2.24 Impaired Drivers and Their Physicians

- Physicians should assess patients' physical or mental impairments that might adversely affect driving.
 - Each case must be evaluated individually
 - Must be able to document impairment
 - Must pose a clear risk to public safety

Dec, 1999

http://www.ama-assn.org/ama/pub/category/8464.html

AMA REPORT OF COUNCIL ON ETHICAL & JUDICIAL AFFAIRS

E.2.24 Impaired Drivers and Their Physicians

- 2. <u>Before</u> reporting
 - Tactful but candid discussion with the pt. & family about the risks of driving.
 - Physician may suggest treatment (ex: occupational therapy, substance abuse treatment)
 - Encourage pt. & family on restricted driving
 - Negotiate a workable plan

Dec, 1999 http://www.ama-assn.org/ama/pub/category/8464.html

AMA REPORT OF COUNCIL ON ETHICAL & JUDICIAL AFFAIRS

E.2.24 Impaired Drivers and Their Physicians

- 3. When advice to discontinue driving is ignored, it is desirable & ethical to notify the DMV.
- 4. The physician's role is to report medical conditions as dictated by his or her state's mandatory reporting laws and standards of practice.
- 5. Physicians should disclose and explain to their patients this responsibility to report.
- 6. Protect patient confidentiality.

Dec, 1999

http://www.ama-assn.org/ama/pub/category/8464.html

Reporting Obligations for Maryland

Q1. What is the <u>legal</u> obligation of a <u>Clinician</u> to

report (refer is a better word) a medically

impaired driver to the MVA?

- A1. None
- Q2. What are <u>Drivers</u> obligated to report to the MVA?
- A2. Disclose reportable conditions upon application and at renewal.

Maryland Reportable Conditions

- Cerebral Palsy
- Diabetes (insulin)
- > Epilepsy
- Multiple Sclerosis
- Muscular Dystrophy
- Irregular heart rhythm or heart condition
- Stroke/TIA
- Alcohol dependence or abuse
- Drug dependence or abuse
- Loss of Limb(s)
- > Traumatic brain injury

- Schizophrenic disorders
- Panic attack disorder
- LOC/ Seizure/Blackout
- Disorder which prevents a corrected minimum visual acuity of 20/70 or a field of vision of at least 110 degrees
- Bipolar disorder
- Parkinson's Disease
- Dementia
- Sleep disorder (ex. narcolepsy, sleep apnea)
- > Autism

Require Physician Report and Health Questionnaire

MVA Driver Wellness and Safety



MVA Driver Wellness Philosophy : Safe Mobility for Life

- Safe Mobility for life of client and other users of roadways.
- Drive for as long as safe.
- Consider each driver on a case-by-case basis.
- This is accomplished by medical assessments, re-education & rehabilitation training programs.



Medical Advisory Board

(a) "The Administrator may appoint a Medical Advisory Board... (c) "The Administrator may refer to the Medical Advisory Board, for an advisory opinion, the case of any licensee or applicant for a license, if the Administrator has good cause to believe that the driving of a vehicle by him would be contrary to public safety and welfare because of an existing or suspected mental or physical disability."

Paths to Driver Wellness



Self report-apply or renew

- MVA Counter referrals
- Report from a clinician
- Concerned citizen report
- Police referrals- RRE
- Court referrals- DUI/DWI

Clinician Letters to MVA

Mr. X has been a patient of mine for 15 years. He has a history of Parkinson's disease with very significant physical and mental impairments. The impairments are such that I feel strongly that he should not be driving.

Mrs. M has recently been diagnosed with Dementia and I have concerns regarding her ability to drive. Please evaluate her ability to drive safely.

Concerned Citizen Letter

Maryland MVA:

My sisters and I are concerned about the driving ability of our father. He has been in a couple of car crashes and he has many medical problems. We would like to remain anonymous.

*These letters prompt an MVA field investigation to verify concerns.

Hypothetical

Request for Re-examination :

Was observed driving below

speed and swerving in lane.

Seemed confused when I

stopped him.

STATE OF M MOTOR VEHICLE A REQUEST FOR RE-EXAMINATION/N	DMINI	STRATION		R (13)
DRIVER'S LICENSE NUMBER				
DATE OF BIRTH				
NAME		MIDDLE		LAST
ADDRESS	STREET	ADDRESS		
	E		Co.	ZIP
INVOLVED IN ACCIDENT: YES	N	0 PI	PD	F
Action taken (if applicable) Warning: YES NO Citation: YES NO				
DATE and TIME of Incident		JOH 140		AM
Location of Incident				
Summary: What action/observa impression of the need for re-e				
Dertification of Presiding Judge or Officer. Leafty persuant to the provision of Section Waryland under penalty of pertury that the off knowledge, Informatice and ballet. Officer's Signature: Printed Name of Officer Law Enforcement Agency	isterrents	made heroin a	ne true and com	act to the best of my
Complete Address of District/B	larrack	City/County	,	Zip Code
Presiding Judge/ID#		C	ity/County	AJ-039 (04-13)

MVA Evaluation

- Client is assigned a nurse case manager.
- Client submits a medical report and health questionnaire.
- Case may be reviewed by the MAB. Majority of cases are done as "paper cases". If additional information is needed, the client may be interviewed.
- Further evaluation- FCT and/or a MVA drive test may be requested.

Medical History

An opportunity to focus on the client's self awareness/insight and judgment. These are difficult to assess with cognitive testing.

Medical History

- Client and/or family members have concerns
- ➢ History of falls
- Alcohol/substance abuse
- Trips take longer than usual when driving alone
- Client has gotten lost while driving
- Reports of family "copiloting"

Medical History

- Any history of a traffic encounter with the police (regardless if a citation was issued)
- Has been involved in a crash or fender bender
- Drive at inappropriate speeds; fail to observe traffic signs and signals
- > MVA has requested information/evaluation

Physician/Health Care Provider Report

6601 Ritchie Highway, N.E. Glen Burnie, MD 21062	PHYSICIAN/HEALTH CARE PROVIDER REPORT	QUESTIONS? Please call: 410-768-7511 TTY FOR THE DEAF 1-800-492-4575
Motor Vehicle Administration	Driver Wellness & Safety Division	Visit our website at: www.MVA.Maryland.gov
For Office Use Only. Requested By:	Date Re	equested:
TO THE DRIVER/APPLICANT: Please	complete Section 1 below.	
f information is filled in by the MVA,	please check to see if it is accurate an etes the rest of this report. It should b	nd make corrections. Your
other forms that may have been sent	with the cov er letter that accompanie	ed this form. Your physician/health e note: Payment for any examination
and preparation of this form is YOUR	responsibility.)	
Per Maryland Vehicle Law Transport CONFIDENTIAL and used to determine	ation Article, Section 16-118, all medi ine "the qualifications of an individual in its records for the purpose of driver	cal information obtained will be kept to drive." In some cases, "The
Administration may use information ir personal information is not published	n its records for the purpose of driver or disclosed."	safety research, provided that
	RAL INFORMATION (To be complete	d by driver/applicant)
Please Type or Print) DRIVER/APPLICANT'S NAME		
	FIRST	MIDDLE
ADDRESS:	CITY STAT	E ZIP CODE
DATE OF BIRTH:	AY/YEAR PHONE NUMBER	R(S):
DRIVER'S LICENSE NUMBER:		
DUVEICIAN/UEAL	TH CARE PROVIDER COMPLETES	000000000000
TO THE PHYSICIAN/HEALTH CARE		SECTIONS #2 - #7
TO THE PHI SICIAN/HEALTH CARE		fitness to drive safely or has been
Your patient has self-reported a medi		
Your patient has self-reported a medi referred to the MVA because of a con or specific information.	cent. There may be with holes belo	
referred to the MVA because of a control of specific information.	orm and give it to your patient for ret	urn to the MVA, OR, return the form
eferred to the MVA because of a con or specific information. Please complete sections 2-7 of this f	orm and give it to your patient for ret	urn to the MVA, OR, return the form

Section 2: History

		SEC	TION 2: H	IISTO	RY			
In f	ho na	st two years:						
1.		s your patient been in any vehicle crashes/a If YES, when?	accidents ?	□ Ye	s 🗆 No	Unkno	wn	
		s your patient expressed any concern(s) ab	out their m	dianle			-	-
2.	driv	e: ES, please explain:	out their m	edical f	tness to	□ Yes	□ No	Unknow
3.	Has	your patient had any of the following?						
		Loss of Consciousness (LOC)	Seizure		Syncope			
	Any	LOC/altered state of consciousness requir						
			-	nce				
		ES, what was the date of the last episode?						
4.	Has	your patient sustained a fall? Yes	No D	Unkn	own			
-								
5.	Hav	e you treated this patient or referred him/he	er to anothe	er clinic	ian for any o	of the follow	ring condition	ons that cou
5.	Hav affe	e you treated this patient or referred him/he ct driving? (Please use comment section to	er to anothe	er clinic formatio	ian for any o		ring conditio	ons that cou
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Has your patient been in any accidents?

Has your patient expressed any concern about their medical fitness to drive?

Has your patient had a LOC, Seizure or Syncopal episode?

Has your patient sustained a fall?

	SECTION 3: CURRENT DIAC	GNOSES AND MEDICATIONS
	CURRENT DIAGNOSES	CURRENT MEDICATIONS
1.		1
2		2
3.		
4		
5.		
6		6
-		SNOSTIC STUDIES
	SECTION 5: PHYSICAL, COGNI	TIVE, MENTAL HEALTH STATUS
Does yo motor ve	our patient have any cognitive, physical, or mental h	
Does yo motor ve	our patient have any cognitive, physical, or mental h	ealth problems that affect her/his ability to safely opera
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motor ve	our patient have any cognitive, physical, or mental h ehicle?	ealth problems that affect her/his ability to safely opera
If YES, o	our patient have any cognitive, physical, or mental h ehicle?	ealth problems that affect her/his ability to safely opera

Section 3: Current diagnoses and medications

Section 4: Results of any diagnostic studies pertinent to medical conditions affecting driving

Section 5:Does your patient have any cognitive, physical or mental health problems that affect their ability to drive?

Does you patient require any assistive device or adaptive equipment to drive?

Fitness to Drive Summary

SECTION 5: FITNESS TO DRIVE SUMMARY For the conditions listed in Section 2, to your knowledge is your patient compliant with the treatment plan, including taking of medications and office appointments? Are the conditions stable and/or improving? If your answer is "NO" either of these questions, please elaborate. Based on your evaluation of this patient, do you have any concern about his/her ability to safely operate a motor vehicle? Based on your evaluation of this patient, do you have any concern about his/her ability to safely operate a motor vehicle? Based on your evaluation of this patient, do you have any concern about his/her ability to safely operate a motor vehicle? Based on your evaluation of this patient, do you have any concern about his/her ability to safely operate a motor vehicle? Based on your evaluation of this patient, do you have any concern about his/her ability to safely operate a motor vehicle? Based on your evaluation of this patient, do you have any concern about his/her ability to safely operate a motor vehicle? Based on your evaluation of this patient, do you have any concern about his/her ability to safely operate a motor vehicle? Based on your evaluation of this patient, do you have any concern about his/her ability to safely operate a motor vehicle? Based on your evaluation of this patient, do you have any concern about his/her ability to safely operate a motor vehicle? Based on your evaluation of this patient would help to determine your patient's medical fitness to drive? Based on you think any additional assessment would help to determine your patient's medical fitness to drive? Based on you think any additional assessment would help to determine your patient's medical fitness to drive? Based on you think any additional assessment would help to determine your patient's medical fitness to drive? Based on you think any additional assessment would help to determine your patient's medical fitness to drive? Based on you think any additional assessment would help to det		
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Based on your evaluation of this patient, do you have any concern about his/her ability to safely operate a motor vehicle? Yes No No Not Sure If YES, or Not Sure, please explain: /// Do you think any additional assessment would help to determine your patient's medical fitness to drive? Yes No Yes No Yes No Yes No Yes No SECTION 7: PHYSICLAN/HEALTH CARE PROVIDER ATTESTATION Mow long has this patient been under your care? What was the date of his/her last visi? Name of Physician/Health Care Provider (Print, type, or use stamp) License Number 5. Specialty		taking of medications and office appointments? Are the conditions stable and/or improving? If your answer is "NO" to either of these questions, please elaborate.
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8. Physician's Address:		
	4.	License Number 5. Specialty
7. Phone Number 8. Fax Number	6.	Physician's Address:
7. Phone Number 8. Fax Number	_	
	7.	Phone Number 8. Fax Number

Is your patient compliant with treatment?

Are conditions stable and/or improving? If no, please elaborate.

Do you have any concern about his/her ability to safely operate a motor vehicle?

Do you think any additional assessment would help?

FCT- Functional Capacity Test

Can High-Risk Older Drivers Be Identified Through Performance-Based Measures in a Department of Motor Vehicles Setting?

Karlene K. Ball, PhD,^{*} Daniel L. Roenker, PhD,[†] Virginia G. Wadley, PhD,^{*} Jerri D. Edwards, PhD,[‡] David L. Roth, PhD,[§] Gerald McGwin, Jr., PhD,[¶][#] Robert Raleigh, MD,^{**} John J. Joyce, JD,^{**} Gayla M. Cissell, MA,[†] and Tina Dube, MS[§]

JAm Geriatr Soc 54:77-84, 2006

OBJECTIVES: To evaluate the relationship between performance-based risk factors and subsequent at-fault motor vehicle collision (MVC) involvement in a cohort of older drivers.

DESIGN: Prospective cohort study.

SETTING: Motor Vehicle Administration (MVA) field sites in Maryland.

crash, and those who took 353 ms or longer on subtest 2 of the UFOV were 2.02 times as likely to incur an at-fault MVC. Older adults, men, and individuals with a history of falls were more likely to be involved in subsequent at-fault MVCs.

CONCLUSION: Performance-based cognitive measures are predictive of future at-fault MVCs in older adults. Cognitive performance, in particular, is a salient predictor of

PARTICIPANTS: Of the 4,173 older drivers invited to

"Performance-based cognitive measures are predictive of future at – fault MVCs in older adults. ... High-risk older drivers can be identified through brief, performance-based measures administered in an MVA setting."

FCT- Functional Capacity Test

- Rapid walk lower limb mobility (>7.0 sec)
- Delayed recall assesses memory (≥2 wrong)
- Trails B Assesses visual search & sequencing, information processing speed, attention switching (>2 min 30 sec)
- Motor Free Visual Perception Test (MVPT)
 Assesses understanding of spatial
 relationships (>4 wrong)
- Useful Field of View (UFOV[®]) Assesses divided attention.

(>350 millisecs)

TRAILS B



TRAILS B



TRAILS B



MVPT



MVPT



Useful Field of View (UFOV[®])

Which object appeared in the center of the screen?






Medical Advisory Board Outcomes

- Continue driving with or w/o possible restrictions.
- Request client be further evaluated with a FCT, MVA drive test or OT evaluation.
- Recommend suspending their driving privilege.
- May request follow up medical reports.
 May close case.

OT Driving Evaluation

- Formal driving evaluation that involves a clinical assessment followed by a behind the wheel evaluation. Considered by some to be the "gold standard".
- Clinicians can refer clients for an OT evaluation or MVA can recommend.
- Clients that are found fit to drive may be reassessed on a regular basis.

Outcomes of OT Assessments

- ➢ Recommend continued driving.
- ➢ Recommend driver training.
- Recommendation for adaptive equipment
 - (larger side view mirrors, pedal extenders, etc.)
- Recommendation for a <u>geographic driving restriction</u> for essential driving needs- shopping, doctor. The client is restricted to driving in a 5 to 10 mile radius.
- High risk driver- recommend cease driving and retire from driving; OT will usually notify the MVA.



D.J. Iverson, MD G.S. Gronseth, MD M.A. Reger, PhD S. Classen, PhD, MPH, OTR/L R.M. Dubinsky, MD, MPH M. Rizzo, MD

Address correspondence and reprint requests to American Academy of Neurology, 1080 Montreal Avenue, St. Paul, MN 55116 guidelines@aan.com

Practice Parameter update: Evaluation and management of driving risk in dementia Report of the Quality Standards Subcommittee of the American Academy of Neurology

Neurology 2010;74:1316-1324

ABSTRACT

Objective: To review the evidence regarding the usefulness of patient demographic characteristics, driving history, and cognitive testing in predicting driving capability among patients with dementia and to determine the efficacy of driving risk reduction strategies.

Methods: Systematic review of the literature using the American Academy of Neurology's evidence-based methods.

Recommendations: For patients with dementia, consider the following characteristics useful for identifying patients at increased risk for unsafe driving: the Clinical Dementia Rating scale (Level A), a caregiver's rating of a patient's driving ability as marginal or unsafe (Level B), a history of crashes or traffic citations (Level C), reduced driving mileage or self-reported situational avoidance (Level C), Mini-Mental State Examination scores of 24 or less (Level C), and aggressive or impulsive personality characteristics (Level C). Consider the following characteristics not useful for identifying patients at increased risk for unsafe driving: a patient's self-rating of safe driving ability (Level A) and lack of situational avoidance (Level C). There is insufficient evidence to support or refute the benefit of neuropsychological testing, after controlling for the presence and severity of dementia, or interventional strategies for drivers with dementia (Level U). *Neurology*[®] 2010;74:1316-1324

➢CDR (Clinical Dementia Rating)- is useful to identify unsafe drivers. Risk of failing a drive test was 82.7 for CDR 0.5 and 88.67 for CDR of 1.0. However a substantial number of patients with a CDR of 0.5-1.0 will be able to pass a drive test.

Caregiver's rating of unsafe driving is useful.

 \blacktriangleright MMSE of < 24 is possibly useful.

- Crash history- a history of a crash in past 1-5 years or a traffic citation in the past 2-3 years may be helpful to identity impaired clients.
- Driving- reduced driving mileage is possibly associated with poor driving.
- Aggressive or personality characteristics are possibly useful to identify at risk clients.

Neuropsychological testing- insufficient evidence to support or refute the benefit.

Interventions to reduce driving risk (training, license restrictions) - insufficient evidence to support or refute the benefit.

Patients who continue to drive should be reassessed at 6 month intervals.

Patients with a CDR of 1.0 were 2 ½ times as likely as drivers without dementia to fail a drive test at a six month follow up.

Figure Sample algorithm for evaluating driving competence and risk management in patients with dementia.





THE CONVERSATION to Retire from Driving

The need to retire is a common element in the aging process.

"Driving Life Expectancy" in Years

Age Group	Men	Women	
70-74	11.5	11.2	
75-79	8.0	7.9	

Foley DJ et al: Am J Public Health 1993;92:1284-1280

The Conversation to Retire from Driving

Bring up the subject sooner than later when signs and symptoms of a condition appear that could progress to compromise the ability to drive in a safe manner.

The Conversation to Retire from Driving

Discuss the current situation *

Family concerns

Fender benders/near misses

Police reports

Clinical Reports – Driving Rehab Specialist

* I drove many years without an accident



Alzheimer's Association

alz.org alzheimer's R association		24/7 Helpline: 800.272.3900		
Our vision is a world without Alzheimer's	Fi	nd us anywhere:	ZIP GOO	Search by state
In My Community Alzheimer's Disease Living with Alzheimer's	We Can Help	Join the Cause	Professionals & Res	earchers
Home > We Can Help > Safety Center > Driving				

Dementia and Driving Resource Center

Driving demands quick reaction time and fast decision making – because of this, a person with Alzheimer's will eventually become unable to drive.

Ideally, families should talk openly about driving soon after a diagnosis of Alzheimer's. Making decisions about when it is time to stop driving can be difficult, but dealing with the issue early on can help ease the transition.

Read more:

- > Having the conversation
- > Planning ahead
- > Signs of unsafe driving

> Resources

Watch how four families deal with different issues related to dementia and driving.



A Supportive Conversation: Frank has early stage Alzheimer's and the doctor said it's no longer safe for him to drive. His wife doesn't drive, but knows it's time to discuss finding alternative transportation. Full Screen

