### Driving

Julie Muccini, MS, OTR/L jmuccini@stanford.edu October 12, 2022

No relevant financial or nonfinancial relationships to disclose.

### Goals of talk:

- 1. Review issues that may compromise driving ability for individuals with Parkinson's Disease, PD.
- 2. Increase understanding of Clinic Based Occupational Therapy, OT, Driving Evaluation.
- 3. Review CA State Law about PD and driving
- 4. Describe the DMV Driver Medical Evaluation
- 5. Increase awareness to local and national level resources

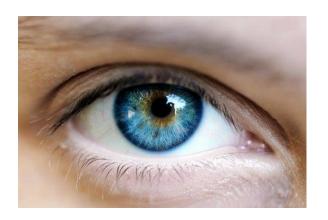
## Issues that may compromise driving ability

### Cognitive skills

Refers to one's ability to receive and process incoming information by using:

- > Perception
- > Reasoning
- > Judgement
- Memory





### Visual Skills

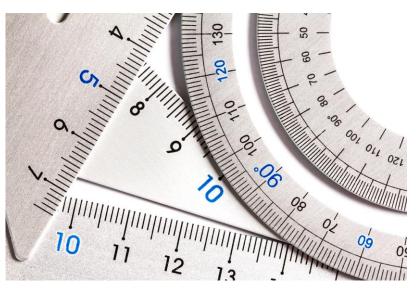
Patient may experience changes in their VISUOSPACIAL SKILLS

- The ability to gauge the distance to a stop sign or other vehicles.
- Difficulty maintaining a safe lane position.

### Motor Skills... not your car's motor

- Motor Functioning...your movement may be slower
- Strength
- Balance
- Range of motion may be diminished, leading to poor posture
  - **≻**Neck
  - **≻**Shoulders
  - ➤ Trunk rotation





- Muscle tightness
- Rigidity
- Tremor
- May impair ability to react quickly to emergencies or changing traffic patterns

## Excessive Daytime Sleepiness, EDS

- Drivers with EDS-related diseases were separated into three groups. Individuals with PD/epilepsy had the highest odds ratio, OR of 2.5, which means a higher probability of single-vehicle crashes than multiple-vehicle crashes compared to the reference group (Group 4)
- PD/epilepsy group n = 645, Sleep apnea, n=2,165, sleep disorders, n=724, Reference group, n=50,556
- Åsa Forsman, Anna Anund, Marie Skyving & Ashleigh J. Filtness (2021) Injury crashes and the relationship with disease causing excessive daytime sleepiness, Traffic Injury Prevention, 22:4, 272-277, DOI: 10.1080/15389588.2021.1894639

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# How to see the Stanford OT for a Clinic Based Driving Evaluation

- Make an appointment with your Neurologist
- Request your Stanford MD place a referral for an OT driving assessment.
- Check your insurance coverage
- Schedule an appointment in Outpatient Neuro Clinic, 213 Quarry Road, Palo Alto

### Outpatient Neuro Rehab Clinic Driving Assessment

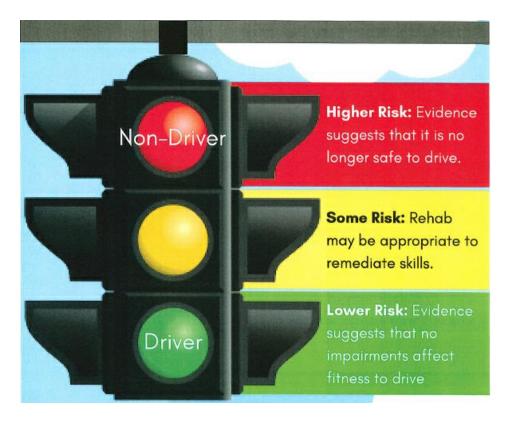
https://stanfordheal thcare.org/medicaltreatments/d/drivin g-simulationtraining.html

- May take 1-3 visits to complete the assessment
- OT's are not the DMV
- Patient will be assessed using some not all of the following tests:
  - Useful Field of View, UFOV
  - STISIM Driving Simulator
  - Rookwood Driving Battery Assessment
  - Bioness Integrated Therapy System, BITS
  - Manual Motor Muscle assessments
  - Snellen Visual Acuity



Julie Muccini sitting in STISIM Driving Simulator Stanford Healthcare, Outpatient Neuro Rehab Clinic

Outpatient Neuro Rehab Clinic Driving Assessment Statement



"Remember, the DMV has the ultimate determination of your driving status or potential. These evaluations in Occupational Therapy at Stanford do not replace those of the DMV. An in car driving evaluation is the ultimate gold standard of testing to determine driving safety. These Driving Simulator assessments as well as cognitive and perceptual tests provide a snapshot in the clinic setting and are meant to facilitate awareness of driving safety potential. Consult the DMV if you have questions about driving."



### **CADMV**

www.DMV.CA.GOV

https://www.dmv.ca.gov /portal/drivereducation-andsafety/medicalconditions-and-driving/

### "Medical Conditions and Driving

Certain medical conditions can affect your ability to drive safely but having a medical condition does not mean that your driving privileges will be restricted. Whether you have an illness, injury, or you take medication that causes certain side effects, if you are diagnosed with a medical condition that may affect your driving, you should let the Department of Motor Vehicles (DMV) know.

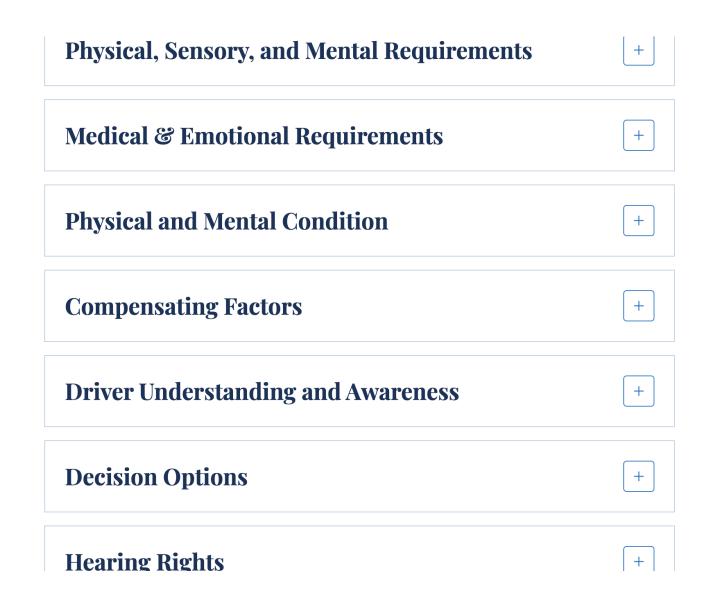
### Medical Conditions

https://www.dmv.ca. gov/portal/drivereducation-andsafety/medicalconditions-anddriving/

- Dementia
- Diabetes
- Lapses of Consciousness
- Vision Conditions

What qualifications does DMV use to investigate or reexamine drivers?

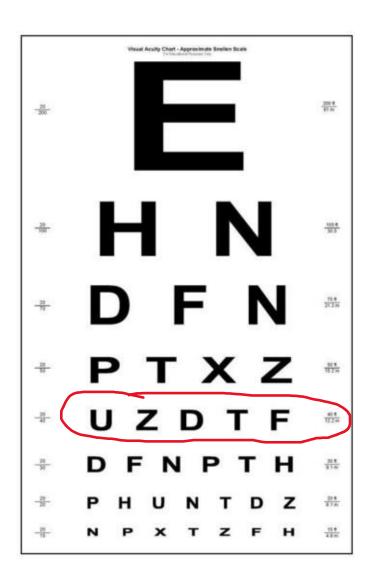
https://www.dmv.ca.gov/ portal/driver-educationand-safety/medicalconditions-anddriving/evaluationguidelines/



# CA DMV Vision Test: Remember to bring your most current glasses to the DMV

- · Vision exam requirement
- A 20/40 visual acuity with or without glasses is the department's vision guideline.
- Visual acuity measurements are obtained for both eyes together and for each eye separately while both eyes remain open, as in normal driving. There are two methods of testing, a Snellen chart or Optec 1000 Vision Tester.
- Applicants who do not pass either exams may, depending on the circumstances, be referred to a vision specialist.

Snellen Chart: At the DMV they show five rows of this size of letters. One row is selected for you to read.



Acuity 20/40

### CA DMV Medical Evaluation Form

https://www.dmv.ca .gov/portal/file/drive r-medicalevaluation-ds-326pdf/

- DRIVER MEDICAL EVALUATION (Medical information is CONFIDENTIAL under Section 1808.5 CVC)
- INSTRUCTIONS TO THE DRIVER: Please take this form to the medical professional most familiar with your health history and current medical condition. Before giving this form to your medical professional, complete and sign Sections 1-3. PLEASE PRINT LEGIBLY.
- INSTRUCTIONS TO THE MEDICAL PROFESSIONAL: Please complete Sections 5-13, on pages 2 through 5. The Department of Motor Vehicles' records indicate your patient may have a condition that could affect the safe operation of a motor vehicle.

EPARTMENT OF	MOTORY	ENCLES"					IIII 13 <b>6</b> 1			
Public	Ser						ALUATION			
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		TIONS TO THE MEDICAL PROFESSION								
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ECTIO	ON	1 — DRIVER INFORMATION								
		IRST, MIDDLE)		DRIVER LICEN	SE NO.			BIRTH D	ATE	FIELD FILE
TREET A	ADDR	ESS CITY					ZIP	PATIENT	'S DAYTI	ME OR HOME PHONE NO.
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	1	Head, neck, spinal injury, disorders or illner	sses		123	1	Kidney disease, stone	es, blood	in urin	e, or dialysis
		Seizure, convulsions, or epilepsy					Muscular disease			·
		Dizziness, fainting, or frequent headaches					Any permanent impai			
		Eye problem (except corrective lenses)					Nervous or psychiatric			
$\perp$		Cardiovascular (heart or blood vessel) dise	ease				Regular or frequent a			
	-	Heart attack, stroke, or paralysis				-	Problems with the use Other disorders or dis		hol or d	rugs
		Lung disease (include tuberculosis, asthma or emphysema)				-	Any major illness, injury, or operations in last 5 years			
+	Nervous stomach, ulcer, or digestive problems					Any major illness inju	rv or or	peration	s in last 5 years	
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https://www.dmv.ca.gov/portal/file/driver-medical-evaluation-ds-326-pdf/

## Request for Driver Reexamination



### REQUEST FOR DRIVER REEXAMINATION

### INSTRUCTIONS

- 1. Complete this form if you wish the Department of Motor Vehicles (DMV) to reevaluate a driver's ability to drive safely.
- 2. Sign this request in the signature block provided. You may request that your name not be revealed to the individual being

state ucense plate number if available y*  state*  state*  ste the space below to provide sname of disease or illness, any Confused/Disoriented Alcohol/Drug Use (Describe b Blackouts, Seizures, Fainting Needs help with daily activities bathing, balancing checkbook, Other:  lems you have observed: (Use  Turns in front of on-coming ca Allows car to drift in and out of Backs up or changes lanes or checking mirrors Applies brake and gas pedals	medications taken, etc elow) Spells (i.e., cooking, dressing space below if needed rs lane without looking back of at the same time
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Slow reactions that may be cause	ed by medications or drugs
Drives on sidewalk	
Makes driving mistakes while	talking to passengers
Falls asleep while driving	
Other actions (Describe below	r)
tion(s) or action(s) which lead y	ou to believe this drive

Please continue on the next page

S 699 (REV. 11/2018) WWW





			( )			
DRIVER LICENSE NUMBER		VEHICLE LICENSE PLATE NUMBER, IF AVAILABLE				
STREET ADDRESS*	CIT	Y* STATE*	* ZIP CODE*			
DRIVER CONDITION Chack all appropriate haves helow Place		use the space below to provide	enecific details if known			
DRIVER CONDITION—Check all appropriate boxes below. Plea			•			
about the driver's medical (physical or mental) condition such	ı ası	name of disease or limess, any	, medications taken, etc.			
Medical Condition		Confused/Disoriented				
Physical Condition		Alcohol/Drug Use (Describe I	below)			
Mental/Emotional Condition		Blackouts, Seizures, Fainting				
Vision Condition		Needs help with daily activitie	•			
		bathing, balancing checkbook				
Weakness or Coordination Problems			()			
☐ Difficulty Walking		Other:				
DRIVER BEHAVIOR—Check appropriate boxes for driving p	robi	lems you have observed: (Us	e space below if needed			
for additional comments.)						
Does not see or react to other cars, podestrians, etc.		Turns in front of on-coming ca	are			
Does not see or react to other cars, pedestrians, etc.		•				
Drives in wrong lane		Allows car to drift in and out of				
Drives on wrong side of the road		Backs up or changes lanes	without looking back or			
Acts violent or aggressive when driving		checking mirrors				
Drives too slow, or stops, for no reason		Applies brake and gas pedals	s at the same time			
Has trouble steering, braking, or otherwise controlling car		Slow reactions that may be caus	sed by medications or drugs			
Is confused by traffic		Drives on sidewalk	-			
Gets lost or confused while driving near home		Makes driving mistakes while	talking to passengers			
Fails to react to traffic signals, other cars, pedestrians, etc.		Falls asleep while driving	2 Farenige.			
		,	····)			
Makes turns from wrong lane		Other actions (Describe below	vv)			

You may use the space below to further describe the driver's condition(s) or action(s) which lead you to believe this driver

### Second page of Request for Driver Reexamination

\*This allows a person reporting to keep their name confidential.

Unsigned reports	would like to have your name kept confidentia s will not be considered.	ii. Confidentiality will	be nonored to the fullest extent possible
NAME (Please print) *			DAYTIME TELEPHONE NUMBER
MAILING ADDRESS (City, State, 2	Zip Code)*		
SIGNATURE*			DATE*
YOU MAY MAIL OR LOCATIONS:	TAKE THIS COMPLETED FORM TO YOU	R LOCAL DRIVER	SAFETY OFFICE AT ONE OF THESE
Bakersfield	5800 District Blvd., Ste. 100-B Bakersfield, 93313	Sacramento	4700 Broadway, 2nd Flr. Sacramento, 95820-1501
City of Commerce	5801 E. Slauson Ave., Ste. 250 Commerce, 90040-3050	San Bernardino	1845 Business Center Dr., Ste 212 San Bernardino, 92408-3447
City of Orange	790 The City Dr., Ste. 420 Orange, 92868-4941	San Diego	1455 Frazee Rd., Ste. 400 San Diego, 92108-4378
Covina	1365 N. Grand Ave., Ste. 101 Covina, 91724-4048	San Francisco	1377 Fell St., 2nd Floor San Francisco, 94117-2296
El Segundo	390 N. Pacific Coast Highway, Ste. 2075 El Segundo, 90245-4470	San Jose	90 Great Oaks Blvd., Ste. 104 San Jose, 95119-1314
Fresno Oakland	2510 S. East Ave., Ste. 310 Fresno, 93706-5112 7677 Oakport St., Ste. 220	Santa Rosa Stockton	2570 Corby Avenue Santa Rosa, 95407-6005 710 N. American St.
Oxnard	Oakland, 94621-1906 2051 N. Solar Dr., Ste. 125	Van Nuys	Stockton, 95202-1823 6150 Van Nuys Blvd., Ste. 205
Redding	Oxnard, 93036-2650 2650 Churn Creek Rd., Ste. 200	van Nuys	Van Nuys, 91401-3333
	Print Clea	ar Form	

\*

### Restricted Driver's License

- The most common driving restrictions affecting senior driver are:
- No freeway driving.
- Driving a vehicle with an additional right side mirror.
- Driving only from sunrise to sunset (no nighttime driving).
- Time of day restrictions (for example, no driving during rush hour traffic).
- Using adequate support to ensure proper driving position.
- Area restriction.
- Wearing bioptic telescopic lens when driving/restricted to driving from sunrise to sunset

### **ADED**

THE ASSOCIATION FOR DRIVER REHABILITATION SPECIALISTS

NHTSA – National Highway Traffic Safety Administration www.ADED.NET

- Private on the road assessment.
- Generally, not covered by insurance
- Can cost \$500-\$800 for a 2-hour assessment
- NHTSA National Highway Traffic Safety Administration
- https://www.nhtsa.gov/sites/nhtsa.go v/files/10900f-drivewell-handoutparkinsons.pdf

### The Association for Driver Rehabilitation Specialists: **ADED** http://aded.siteym.com/

- Mr. Marc Samuels, OT, CDRS, The Safe Driver
- www.thesafedriver.com
- Half Moon Bay, CA
- 650-771-2797
- 650-804-1792 VA
- Mr. Derrick P Scott, CDI, CDRS, A-Safe Driver, Inc. Fit2, Drive Rehab, Apex Driving School
- Burlingame, CA
- 650-373-2020

- Mr. Edward Brodd, CDRS, Driver Rehab Services, LLC
- San Jose, CA
- 650-690-6618
- Mr. Sam Graf
- Adaptive Driving Aid
- 800/371-4243 408/866-7237
   3155 San Jose, CA 95117



### **NMEDA**

- The <u>National Mobility Equipment Dealers</u> <u>Association</u> (NMEDA)
- is an advocate for mobility and accessibility for drivers with disabilities. If you need help with converting or buying a handicap accessible van, car or truck, please consider one of a Quality Assurance Program dealers.
- Every NMEDA QAP dealer and technician has been trained and accredited in the highest best practice standards of quality and service to ensure safe and reliable transportation.

http://www.nmeda.com/

Questions?

Thank you!

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