



# Setting the Stage for a Discussion of Dementia and Driving

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Maryland Older Driver Safety Symposium Linthicum Heights, MD, DC – April 25, 2013



# Santa Monica, CA - Farmer's Market July 17, 2003 87 y.o. male driver

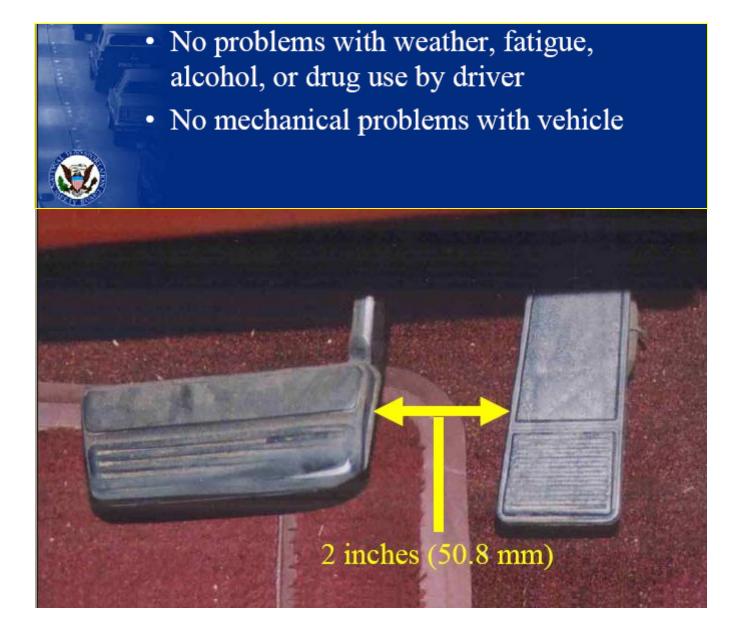
**California Highway Patrol report:** 

His "eyes open, hands on the steering wheel at the 10 & 2 o'clock positions"

- Car traveled 995 feet, up to 60 mph.
- Avoided parked cars ... but struck pedestrians
   & hurled them into the air before finally stopping.

Killed - 10 (7 months - 78 yrs)

Injured - 63







## Medical Oversight of Non-commercial Drivers

Public Hearing Washington, D.C. March 18-19 2003



**Fatal Crashes** 

Washington County Maryland 2001



Frederick, Maryland 2002



# "High-Risk Medical Conditions" Considered in Public Hearing (March 18-29, 2003) & Meeting (Nov 9, 2004) of NTSB

Epilepsy: 2.5 million - 180,000 new cases/year

Diabetes: 18.2 million - 1 million new cases/year over 20

Sleep Disorders: 50 to 70 million

Cardiovascular Disease: 23.5 million

Alzheimer's Disease: 4.5 million

10% of those >65 yrs,

50% of those >85 yrs

Arthritis: 40 million – 7 million with limited activity

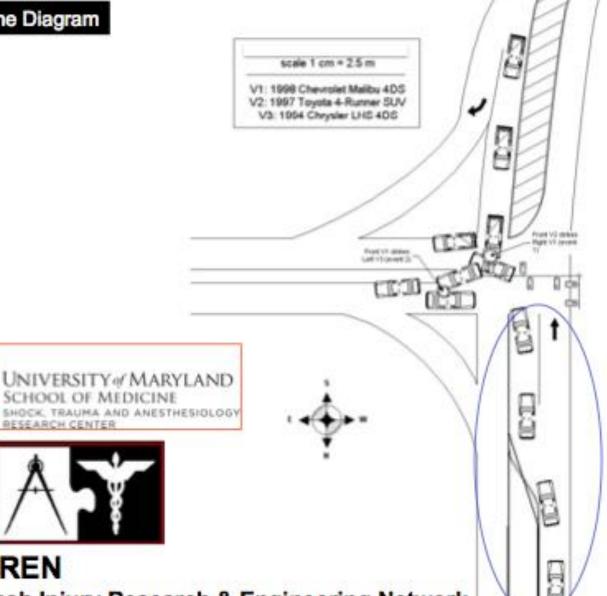
Eye Diseases: 5.5 million with cataracts, 2 million with glaucoma

1.2 million with later-stage macular degeneration

Alcoholism: 14 million – ETOH linked to 41% of fatal crashes

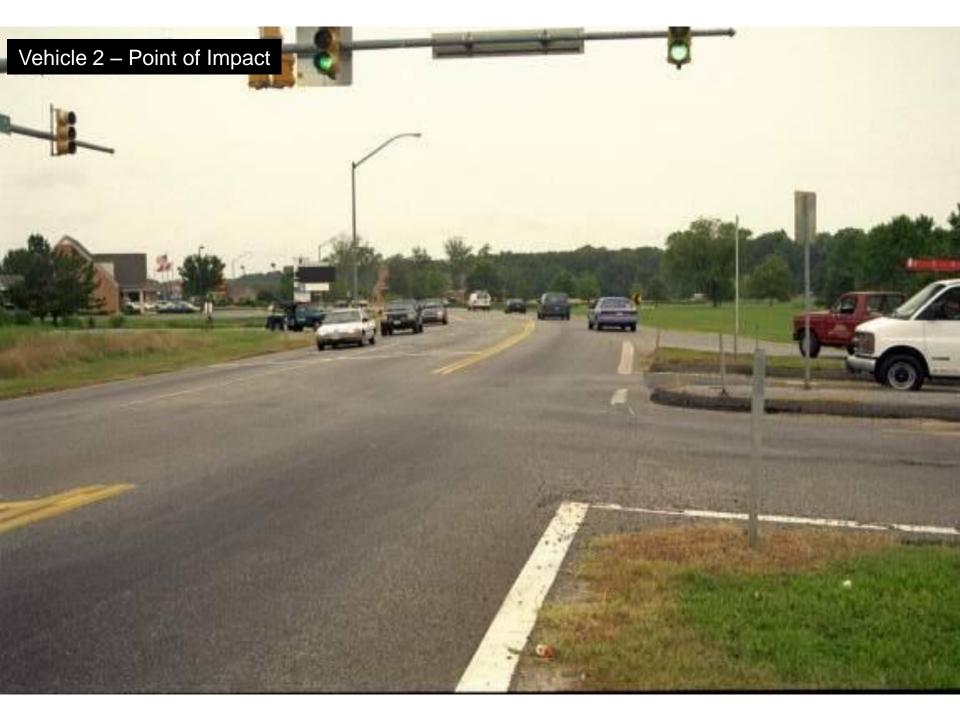
www.ntsb.gov/events/hearing\_sched.htm November, 2005

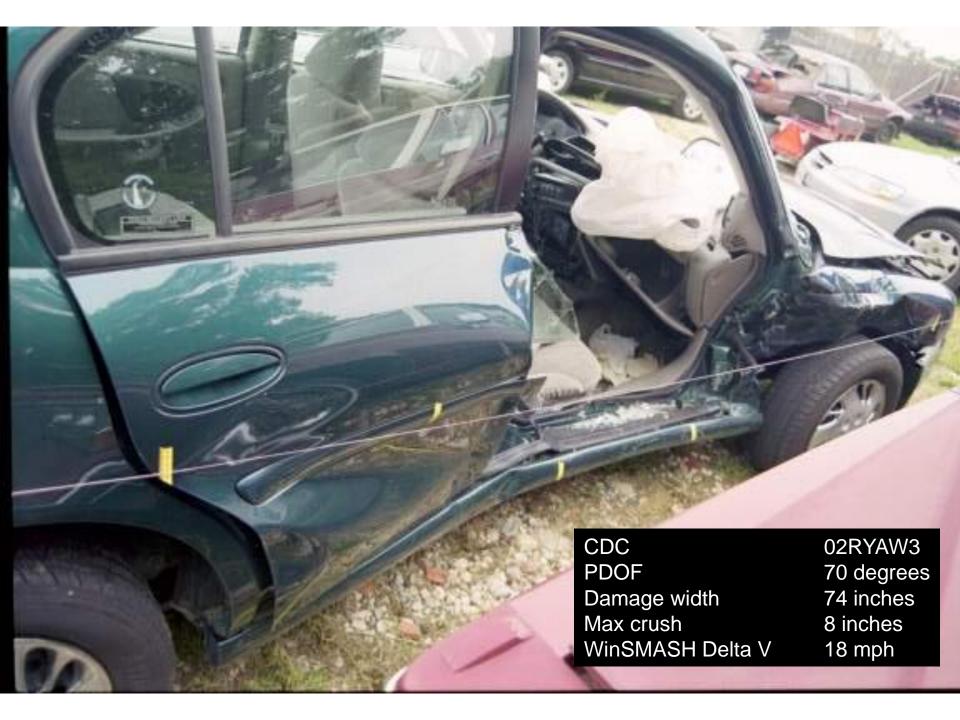
# Scene Diagram



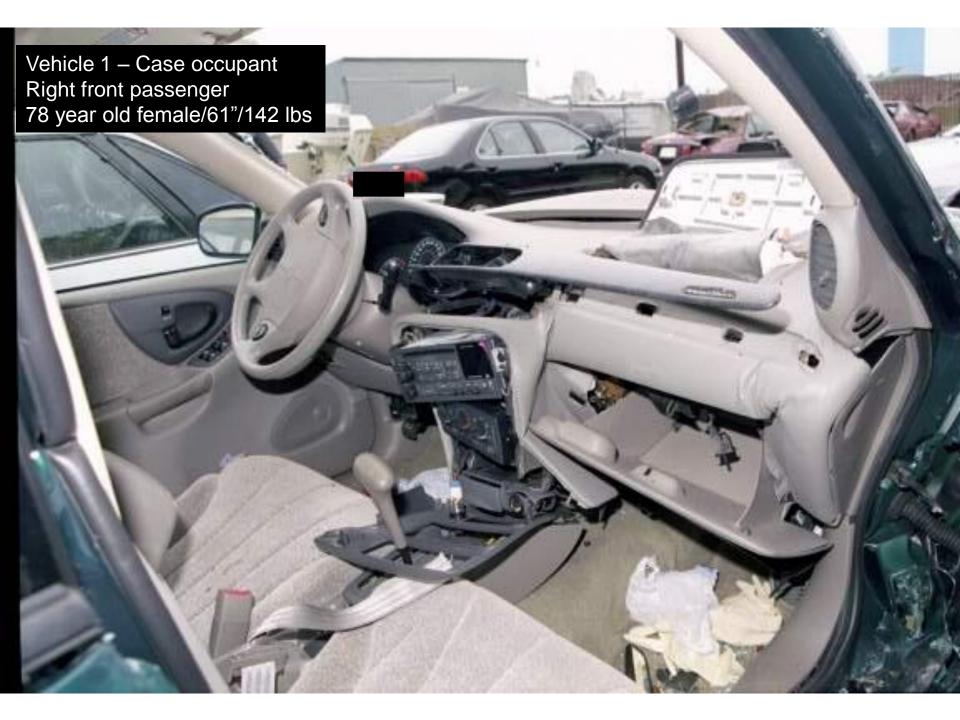
CIREN

Crash Injury Research & Engineering Network











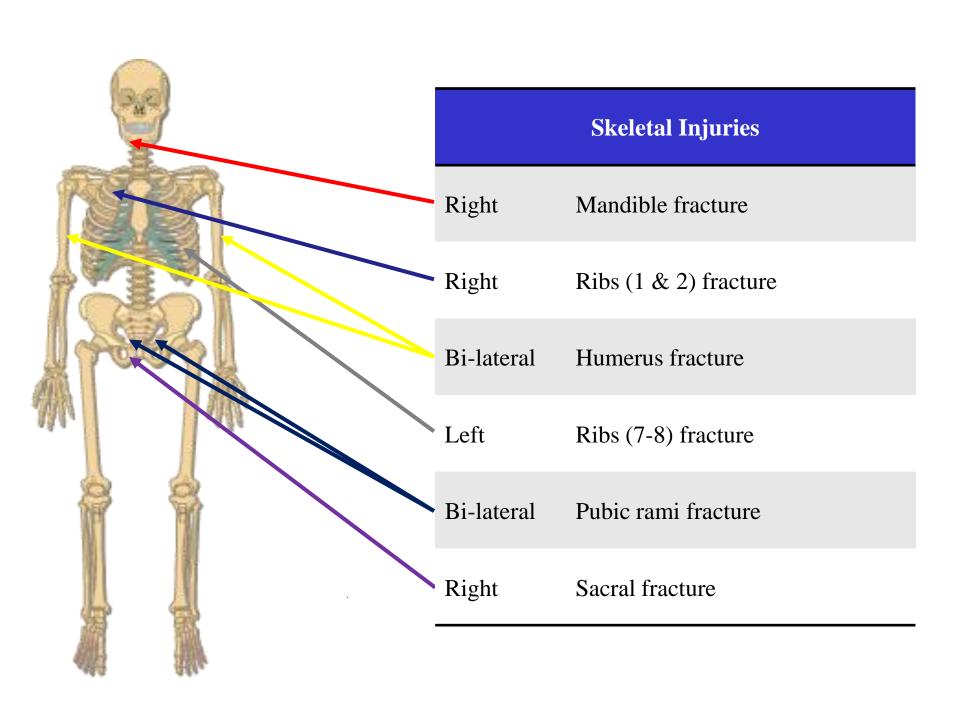




Ruptured bladder (extraperitoneal)

Associated with impact to Door Panel

& Concussion & Both Lungs lacerated



### **Medical Costs**

15 Days in Shock Trauma + Rehabilitation

- Professional \$14,400

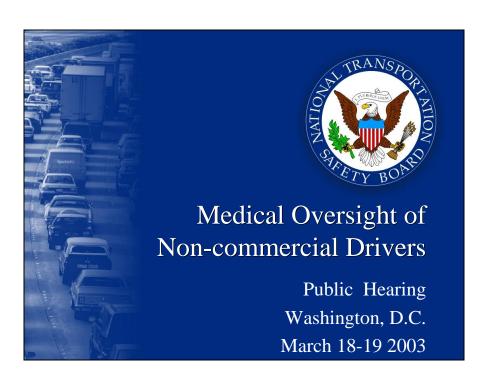
- **Hospital** \$62,736

- **Rehab** \$25,000

**– Outpatient** \$ 2,500

- **Home care** \$ 5,400

TOTAL \$110,036



#### **Medical Oversight of Noncommercial Drivers**



#### Highway Special Investigation Report NTSB/SIR-04/01

PB2004-917002 Notation 7673A



**November 9, 2004** 



#### NTSB – 2009: RECOMMENDATIONS

## To the Liaison Committee on Medical Education, the American Osteopathic Association, and the Association of American Medical Colleges:

Require medical schools to teach students about the driving risks associated with certain medical conditions and medications, the existence and function of State reporting laws regarding medically high-risk drivers, and the methods and resources for counseling such drivers. (H-04-47)

#### To the Federation of State Medical Boards:

Work with your member organizations to ensure that continuing medical education requirements in all States include a course addressing the driving risks associated with certain medical conditions and medications, as well as the existence and function of State reporting laws and procedures regarding medically impaired drivers. (H-04-48)



Physician's Guide to

## Assessing and Counseling Older Drivers

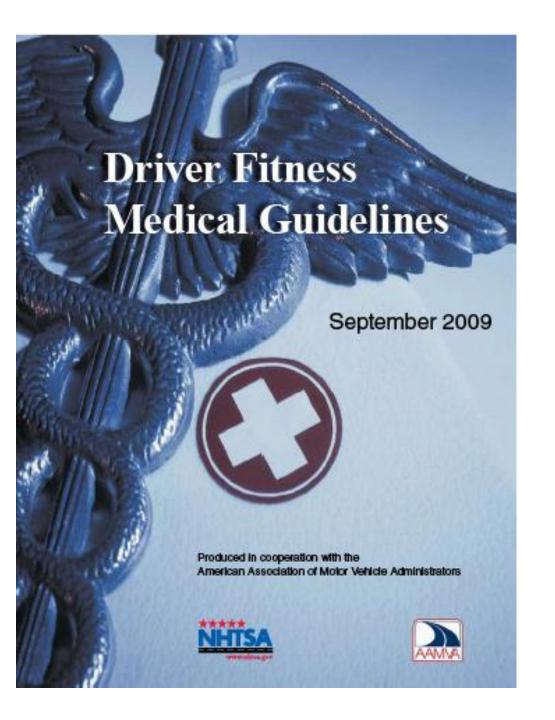
2nd edition



U.S. Department of Transportation

National Highway Traffic Safety Administration





#### GUIDELINES FOR MVAs, CLINICIANS & DRIVERS

- Vision
- Physical Limitations
- Dementia
- Diabetes
- Seizures
- Sleep Disorders

"These guidelines are voluntary.

"...decisions concerning a driver's ability should be made on a case-by-case basis."

**DOT HS 811 210** 





DOT HS 809 874

FINAL REPORT

July 2005

#### Strategies for Medical Advisory Boards and Licensing Review



This document is available to the public from the National Technical Information Service, Springfield, Virginia 22161

Recommendation 7.

The DMV should accept reports of potentially at-risk drivers from physicians and other medical providers, law enforcement, social services providers, friends, families, and other concerned citizens.





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