

PROGRAM GUIDE

Maryland Older Driver Safety 2015



“Safe Mobility for Life”

**June 9, 2015
Maritime Institute
Linthicum Heights, MD**



Maryland Department of Transportation



OVERVIEW

Maryland Motor Vehicle Administration (MVA) has convened the 2015 Maryland Older Driver Safety Symposium (MODSS) to continue focus on promoting a culture of *Safe Mobility for Life*. This year's program builds on information learned at the symposiums in 2012 and 2013, and the collaboration since then with our safety partners and the many folks participating in our regional workshops. Today's educational event brings you the latest research and best practices for aging road users that are taking place everywhere, and putting them into an effective program to help you use – right here in Maryland.

THANK YOU to our many safety partners for their continuing work to take this program to the next level, including National Highway Traffic Safety Administration, Mid-Atlantic Foundation for Safety and Education, and American Association of Motor Vehicle Administrators. And thank you to all the MVA staff on our Workgroup Team, including:

Program Facilitator – **Nanette Schieke**, Chief, Driver Safety Division

Panel Facilitators – **Tom Liberatore**, Director, Driver Programs
Steve Davis, Assistant Division Manager, Driver Wellness & Safety
Carl Soderstrom, MD., Chief, Medical Advisory Board

Exhibit Facilitators – **Peter Moe**, Director, Driver Safety Division (& Closing Remarks)
Deondra Jones, Division Manager, Driver Wellness & Safety
Mike Sabol, Manager, Highway Safety Office

Other team members – **Christine Nizer**, Chief Deputy Administrator
Kym Douglas, Deputy Administrator
Mary Anne Scottino, MD, Deputy Chief, Medical Advisory Board
Tom Gianni, Chief, Highway Safety Office
Dana Gigliotti, Deputy Chief, Highway Safety Office
Kathleen Graham, Manager, Highway Safety Office

GOALS for today's event:

- 1) Learn the latest research, best practices, and game-changers in the older driver safety arena – prestigious keynote speaker and info-packed panels on key topics backed by excellent research.
- 2) Discover the outcomes of discussions with local professionals in law enforcement, healthcare, traffic engineering, and social services at recent regional workshops.
- 3) Engage in frank discussions on older driver safety issues and their relevance to Maryland.
- 4) Effect practical objectives of necessary policies and programs for Maryland's older driver safety programs that can be embraced and built upon by the organizations and agencies represented.
- 5) Encounter exhibits that showcase local resources and program demonstrations.
- 6) Develop partnerships by understanding the roles of agencies, organizations and professionals that provide services for older drivers.



Refer to <http://www.mva.maryland.gov/modss>
for Maryland Older Driver Safety Information – after the Symposium.

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WELCOME TO:



<http://towardzerodeathsmd.com/>

MARYLAND GOVERNOR LARRY HOGAN

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TTY USERS CALL VIA MD RELAY



A MESSAGE FROM GOVERNOR LARRY HOGAN

Thank you for participating in the third Maryland Older Driver Safety Symposium. I appreciate your passion and interest in creating a network of Maryland partners to inform and empower our older drivers.

As the number of drivers ages 65 and older grows, we must continue our efforts to ensure Maryland's older drivers stay mobile for as long as safely possible. Many older drivers do not face serious medical conditions or functional limitations that affect their driving skills, but all drivers need to understand the impact of aging on driving and how to best manage any potential risks.

This year's symposium builds on the information presented during the past two conferences and provides an opportunity for Maryland leadership to take our programs and policies on older driver safety to the next level. I encourage you to learn from the latest research and best practices presented today and help advance our goal of zero fatalities on Maryland roadways.

Thank you for your participation and hard work on this important endeavor.

Larry Hogan
Governor

MDOT SECRETARY PETE K. RAHN



Larry Hogan, Jr.
Governor
Boyd K. Rutherford
Lt. Governor
Pete K. Rahn
Secretary
James. F. Ports, Jr.
Deputy Secretary



A MESSAGE FROM TRANSPORTATION SECRETARY PETE K. RAHN

Thank you for attending the 2015 Maryland Older Driver Safety Symposium and for your ongoing commitment to traffic safety. I applaud your efforts and I'm optimistic your participation and ongoing dedication to this issue will raise awareness about the challenges confronting older drivers and will deliver real solutions to enhance the safety of all motorists.

Maryland has made tremendous progress in highway safety. In 2014, Maryland reduced the number of traffic fatalities to 442, which is the lowest number since 1948. This historically low number clearly demonstrates what we can do when we work together to save lives.

The issues and challenges confronting older drivers go beyond traffic safety stats. Driving represents a person's sense of independence and pride. Therefore, we must remember that our mission is not to limit driving privileges for older drivers, but to promote safe driving skills for life.

Again, thank you for contributing your time and expertise to this important safety topic. The ideas generated at today's symposium will help us develop future policies and initiatives that balance the independence, mobility and safety needs of older drivers.

Pete K. Rahn
Secretary of Transportation

MVA ADMINISTRATOR MILT CHAFFEE



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Vehicle Administration
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Glen Burnie, Maryland 21062

www.mva.maryland.gov



A MESSAGE FROM THE MVA ADMINISTRATOR MILT CHAFFEE

As Maryland's Highway Safety Representative for Governor Larry Hogan and the Administrator of the Maryland Motor Vehicle Administration, I am delighted to welcome you to the 3rd Maryland Older Driver Safety Symposium.

I am honored to host this symposium in collaboration with our safety partners from National Highway Traffic Safety Administration, American Automobile Association, AAA Foundation for Traffic Safety, American Occupational Therapy Association, International Association of Chiefs of Police, Johns Hopkins Bloomberg School of Public Health, and many others. We appreciate the support of all our partners in making this event possible.

All of us are aging, and 44% of us Maryland drivers have already reached the age of 50 – congratulations!* While everyone ages differently, science tells us that we are more likely to face physical and cognitive issues with age that may impact our driving. The good news is that most of these issues can be mitigated with proper attention, expert assessments, and driver rehabilitation. The key is awareness of the issues and the resources to address them – for you, your family, your friends, and your professional contacts. The Symposium today will bring you the main elements for that awareness.

We encourage you to be engaged today – provide your feedback and ideas, meet new partners, and leave with at least one new goal of enhancing your policies and programs for seniors. Thank you for joining us today!

Milt Chaffee
Administrator, Maryland Motor Vehicle Administration

* MVA Planning & Programming Division, *Drivers Licenses – Age Stratification by County Dec 2014*

AGENDA

7:30am

Check-in/Continental Breakfast/Exhibits Open

8:30am

Opening:

Milt Chaffee, Administrator, Motor Vehicle Administration

Dennis Schrader, Deputy Secretary, Maryland Department of Transportation

Stephanie A. Hull, Deputy Secretary, Maryland Department of Aging

Brian Chodrow, National Highway Traffic Safety Administration

9:00am

Keynote Address:

Elin Schold Davis, OTR/L, CDRS, Project Coordinator of Older Driver Initiative for the American Occupation Therapy Association: *Triaging for Driving Assessments & Services: The Role of Family, Community, Medicine and Driver Rehabilitation*

9:45am

Morning Break / Visit Exhibits

10:00am



Featured Conversation:

Sgt. Christopher Corea, Maryland State Police: *Electronic Medical Referral from Law Enforcement via Delta Plus System & Responding Effectively on the Roadside*

10:15am

Identification Methods for Professionals

...Changing Demographics Means Changing Methods

Facilitator: Thomas (Tom) Liberatore, Motor Vehicle Administration

Alice K Pomidor MD, MPH, AGSF, Florida State University College of Medicine: *Engaging the Public & Professionals in Surveying Needs to Put into Action via Statewide Coalition*

D.R. "Ike" Iketani, California Highway Patrol, Assistant Chief (Ret), University of California at San Diego: *DOSCI, Roadside Cognitive Screening Tool to Help Law Enforcement Identify and Manage Medically At-Risk Drivers*

James Stowe, PhD, Washington University School of Medicine, St. Louis, Missouri: *Providing Tools for Professional Responses to Drivers with Functional Declines through the Missouri Coalition for Roadway Safety's Subcommittee on Elder Mobility and Safety*

11:30am

Lunch / Visit Exhibits

AGENDA

12:45pm



Featured Conversation:

David J. Coyne, P.E., Maryland State Highway Administration: *Maryland's Intersection Safety Implementation Plan & Implications for Older Driver Crashes*

1:00pm

Infrastructure & Vehicles for Aging Drivers

...Changing Demographics Means Changing Design

Facilitator: **Steve Davis**, Motor Vehicle Administration

Thomas M. Welch, P.E., Iowa Department of Transportation (Ret), Leidos, Inc: *Highway Design & Traffic Engineering Makes a Difference*

Jurek Grabowski, PhD, American Automobile Association Foundation for Traffic Safety: *Vehicle Features that Optimize Older Driver Safety*

Elizabeth A. Baker, PhD, National Highway Traffic Safety Administration, Region 3: *Vehicle Technologies Can Save Lives – New NHTSA Study*

2:15pm

Afternoon Break / Visit Exhibits

2:30pm



Featured Conversation:

Amanda Burstein, International Association of Chiefs of Police: *Training Program to Help Law Enforcement with Drivers Who May Have Alzheimer's Disease*

2:45pm

Strategies for Driver Assessment & Training

...Changing Demographics Means Changing Strategies

Facilitator: **Carl Soderstrom, MD**, Motor Vehicle Administration

Loren Staplin, PhD, TransAnalytics, LLC: *Older Driver Training - What Works?*

Vanya C. Jones, PhD, MPH, Johns Hopkins Bloomberg School of Public Health: *Risk Impairment Assessments and Driving Programs – Lessons Learned from the Seniors on the M.O.V.E Program*

Janet S. Sunness, MD, Hoover Low Vision Rehabilitation Services, Greater Baltimore Medical Center & University of Maryland School of Medicine: *Monitoring Vision for Safe Driving*

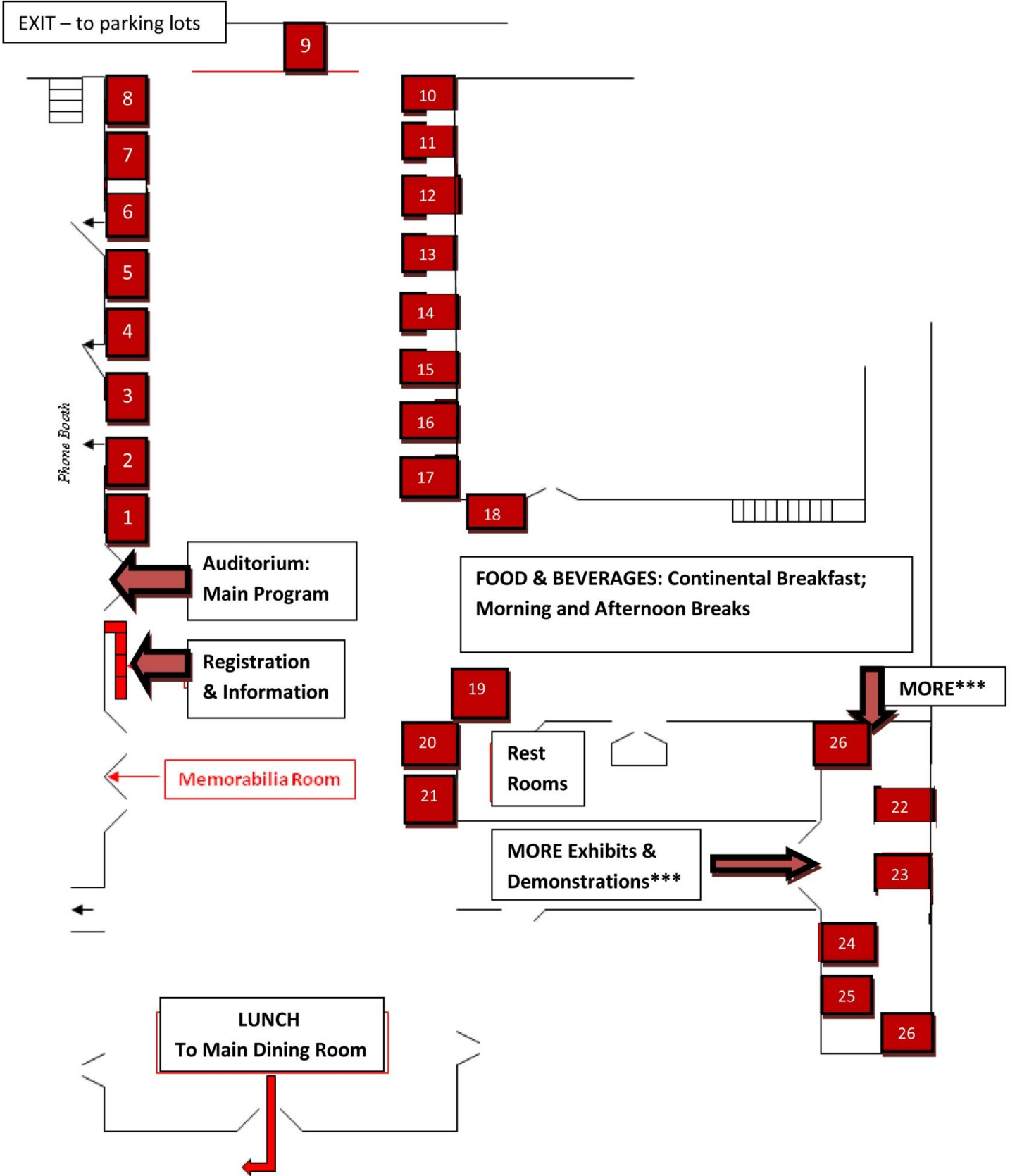
4:00pm





























Closing - Recap and Looking Forward:

Peter Moe, Motor Vehicle Administration

EXHIBIT KEY/ DIAGRAM OF MARITIME SYMPOSIUM AREA



LIST OF EXHIBITORS

1	Maryland Motor Vehicle Administration – Driver Safety; Driver Wellness & Safety; and Medical Advisory Board		14	Central Maryland Regional Transit	
2	MVA – Highway Safety Office		15	Maryland State Police: Delta Plus System	
3	Maryland Police & Correctional Training Commissions		16	Howard County Police Department: CarFit Program	
4	Maryland State Highway Administration		17	Maryland Department of Aging	
5	Trauma Prevention by the Center for Prevention & Policy, R Adams Cowley Shock Trauma Center, University of Maryland		18	Mid-Atlantic Foundation for Safety & Education and AAA Mid-Atlantic	
6	Maryland Transportation Authority		19	American Occupational Therapy Association	
7	UMBC Management of Aging Services/The Erickson School		20	Partners-In-Care	
8	Maryland Relay		21	Maryland Department of Veterans Affairs	
9	AARP		22	Anne Arundel County Dept of Aging & Disabilities	
10	Maryland Governor's Office of the Deaf and Hard of Hearing		23	Montgomery County Police Department: Keeping Seniors Safe	
11	Baltimore Metropolitan Council		24	Baltimore County: Be Mobile, Drive Safe	
12	National Center for Mobility Management		25	International Association of Chiefs of Police	
13	Maryland Transit Administration		26	MVA Demonstration of the Functional Capacity Test Screening	

KEYNOTE SPEAKER: ELIN SCHOLD DAVIS



ELIN SCHOLD DAVIS, OTR/L, CDRS
Project Coordinator, Older Driver Initiative
The American Occupational Therapy Association
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Elin Schold Davis has coordinated the American Occupational Therapy Association's (AOTA) Older Driver Initiative since 2003. She is a registered/licensed occupational therapist (OTR/L) and a certified driving rehabilitation specialist (CDRS). Her experience in long term care and adult rehabilitation at The Sister Kenny Rehabilitation Institute Minneapolis, Minnesota, led her to her current position with The American Occupational Therapy Association as the Coordinator of the AOTA Older Driver Initiative. Ms. Schold Davis has authored articles, co-edited the book *Driving and Community Mobility: occupational therapy strategies across the lifespan* and lectured nationally and internationally on the topics of both cognitive rehabilitation and driving.

In her current position with AOTA, Ms. Schold Davis manages projects funded by cooperative agreement with the National Highway Traffic Safety Administration dedicated to build awareness of occupational therapy's role in senior safe mobility and increase the capacity of occupational therapy programs to work collaboratively with providers and stakeholders to address driving as an instrumental activity of daily living. Significant initiatives include collaboration with The MIT Age Lab and The Hartford's Center for Mature Market Excellence to develop the educational brochure *Your Road Ahead: A Guide to Comprehensive Driving Evaluations*, and the CarFit collaboration between AAA, AARP and AOTA.

Schold Davis is a member of the Transportation Research Board's Safe Mobility for Older Person's Committee and its sub-committee addressing Medical Advisory Boards and is a member of the National Older Driver Safety Advisory Council.

SPEAKERS

Elizabeth A. Baker, Ph.D.

Regional Administrator, Region 3
National Highway Traffic Safety Administration
10 S. Howard Street, Suite 6700, Baltimore, MD 21201
beth.baker@dot.gov

Dr. Baker has been involved with highway safety since 1980, when she began teaching driver education while pursuing a Master's Degree at The Ohio State University. After several white-knuckle years of teaching, she moved on to the University of Maryland, teaching health and safety education courses while continuing her graduate studies. After receiving a doctorate in Health and Safety Education in 1989, she joined Maryland's State Highway Safety Office and eventually became Chief of the Maryland State Highway Administration's Traffic Safety Division and served as Maryland's Highway Safety Coordinator. Beth has been with NHTSA as Regional Administrator since 1998, where she focuses on NHTSA's mission of saving lives, preventing injuries, and reducing traffic-related health care costs by promoting her philosophy that people make this program work. Implementing effective and efficient highway safety programs through a close partnership with the seven states in Region 3 is the cornerstone of her work.

Amanda Burstein

Program Manager
International Association of Chiefs of Police
44 Canal Center Plaza, Suite 200, Alexandria, VA 22314
burstein@theiacp.org

Ms. Burstein oversees the IACP's Alzheimer's Initiatives Program and the Center for Officer Safety and Wellness. The Alzheimer's Initiatives have been providing law enforcement and first responders with training, tools and resources since 2009 to improve knowledge and skills to safeguard this special population. IACP's Center for Officer Safety and Wellness' goal is to provide law enforcement with tactical safety information and research via education, tools, and resources. The Center's initiatives include the Prevention of Violence Against the Police, Reducing Officer Injuries, Prevention of Officer Suicide, and Survivor's Club (promotion of vest wear).

Ms. Burstein serves on several working groups, including the Major City Chief's National Officer Safety and Wellness Working Group and the CDC's National Institute of Occupational Safety and Health's Public Sector Working Group. She has also acted as guest editor for Police Chief Magazine on several issues providing subject matter review.

Brian Chodrow

Program Analyst, Safety Countermeasures Division
National Highway Traffic Safety Administration
Washington, D.C.
Brian.Chodrow@dot.gov

Brian's primary responsibility is implementing strategies, programs, materials and information for use by national organizations promoting primary highway safety issues of interest to National Highway Traffic Safety Administration (NHTSA). As part of his duties, he is responsible for providing technical and policy guidance in designing specific traffic safety education programs and projects concerning older road users and pupil transportation. He also has extensive experience in impaired driving issues having previously worked on judicial, prosecutorial, law enforcement and corrections projects. Mr. Chodrow began his law enforcement career as a police officer and has also worked as a probation and parole officer for the Virginia Department of Corrections. Other work attributes include working for the Attorney General of Virginia in the Corrections-Litigation Section, and the Natural Resources Section. He obtained a Bachelor of Science degree in Law Enforcement and Corrections from the Pennsylvania State University and has completed additional graduate course work in Criminal Justice at the Virginia Commonwealth University. Additionally, he is a graduate of the Mississippi College School of Law where he received his *Juris Doctorate* (J.D.) degree and is admitted to the Virginia Bar.

SPEAKERS

Sgt. Christopher Corea

Executive Officer

Information Technology Division

Maryland State Police

Baltimore, Maryland

christopher.corea@maryland.gov

Sergeant Christopher Corea graduated from Stockton College with a Bachelors Degree in Criminal Justice. He has been a Trooper with the Maryland State Police since July of 2000. During his assignment to the JFK Highway Barrack, Sgt. Corea was selected as Trooper of the Year in 2003 and honored by the States Attorney's office from 2001 through 2004 for his DUI Performance. MADD also honored Sgt. Corea for his top DUI performance in 2002.

In 2005, just before transferring to the Information Technology Division, Sgt. Corea became a Certified Drug Recognition Expert and continued to earn his status as a DRE Instructor in 2006. While assigned to the Information Technology Division, Sgt. Corea developed Delta Plus. The application has become the de facto standard for data collection related to crash and traffic data. He continues to develop modules for Delta Plus making sharing and collecting data more efficient across multiple jurisdictions and disciplines. Sgt. Corea became the Executive Officer for the Information Technology Division in June 2014 after being the supervisor for the Database, Development, Quality Assurance and User Management units within ITD since 2006.

Sgt. Corea continues to teach law enforcement officers across the state on the applications developed by the State Police. Sgt. Corea is an alumnus of the NIJ Law Enforcement Technology Institute, member of the ATSIP board and TRCC Technical Committee. He is the NLETS representative for Maryland and works with NHTSA as a traffic records assessor for citation/adjudication and crash records since 2011.

David J. Coyne, P.E.

Deputy Administrator / Chief Engineer for Operations

Maryland State Highway Administration

Baltimore, Maryland

DCoyne@sha.state.md.us

Dave grew up in Syracuse, New York and attended Clarkson University in Potsdam, New York where he received a Bachelors of Science degree in Civil Engineering. Dave is a registered Professional Engineer in the State of Maryland, and lives in Westminster, Maryland.

In July, 1987 he accepted a position with the Maryland State Highway Administration (SHA) working for the Project Planning Division where he performed preliminary engineering and planning activities associated with project planning studies. Over the following 18 years, Dave held several positions at SHA in: the Office of Environmental Design where we worked on environmental mitigation and permit coordination with the environmental agencies in support of highway projects; the Office of Maintenance where he eventually rose to the position of SHA Fleet Manager responsible for the entire SHA fleet of vehicles and equipment; and Assistant District Engineer for Maintenance in District 7 where he was responsible for the overall maintenance activities in Howard, Carroll and Frederick Counties. In July, 2005, he was promoted to District Engineer where he was responsible for all maintenance, construction, traffic, engineering and administration in the above mentioned counties. In July, 2014 he was appointed as the Deputy Administrator/Chief Engineer for Operations where he is responsible for the seven engineering districts as well as the operational areas of CHART, Office of Maintenance, Office of Traffic, Office of Construction and the Office of Materials Technology.

SPEAKERS

Jurek Grabowski

Director of Research

AAA Foundation for Traffic Safety

607 14th Street NW, Suite 201, Washington, DC 20005

jgrabowski@aaafoundation.org

As an injury epidemiologist with an interest in crash causation and outcomes, Jurek places an emphasis on risk factors identification and policy intervention. With 20 years of research experience, he has published over 50 original peer-reviewed research articles. He joined AAA Foundation as the Research Director in 2010 where he manages large scale projects in the research portfolio such as teen distraction, cognitive distractions, the Senior Driver Cohort Study, & in-car technologies.

Stephanie Hull, J.D., M.S.W.

Assistant Secretary,

Maryland Department of Aging

Baltimore, Maryland

Stephanie.hull@maryland.gov

Stephanie Hull is the Deputy Secretary for the Maryland Department of Aging where she is responsible for oversight of the service programs administered by the Department. Major programs include state and Administration on Community Living funded services for older adults and individuals with disabilities and long term care programs funded by the Centers for Medicare and Medicaid and the Maryland Department of Health and Mental Hygiene. Ms. Hull has responsibilities for programs administered by four Division Chiefs with oversight for community-based long term care, protective services and guardianship, and continuing care retirement communities. She has primary responsibility for working with other State Departments to development new long term care reform programs to transition or divert people from nursing home care to community-based services. Ms. Hull holds a Masters of Social Work and a Juris Doctorate.

D. R. "Ike" Iketani

Assistant Chief, California Highway Patrol (Retired)

Consultant, University of California at San Diego

School of Medicine, Training, Research, & Education for Driving Safety (TREDS)

San Diego, California

ike.iketani@gmail.com

Mr. Iketani is currently providing instruction to law enforcement in the identification of cognitively impaired drivers. A retired Assistant Chief and 32-year veteran of the California Highway Patrol, he has been involved in developing and presenting senior safety and older driver awareness programs for over 20 years. He is a past chair of the Law Enforcement Workgroup for the Governor's Older Californian Traffic Safety Task Force, and has served as a subject matter expert for the National Highway Traffic Safety Administration in the development of standardized law enforcement training for responses to older drivers. An Academy instructor and Adjunct Faculty for the California Community Colleges, Assistant Chief Iketani's goal is to ensure law enforcement is properly educated about cognitive impairment and how best to effectively contact and assist cognitively impaired drivers to ensure their safety.

SPEAKERS

Vanya C. Jones, PhD, MPH

Johns Hopkins Bloomberg School of Public Health
The Department of Health, Behavior and Society
The Center for Injury Research and Policy
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vjones@jhsph.edu

Dr. Jones is an Assistant Professor in the Department of Health, Behavior and Society at the Johns Hopkins Bloomberg School of Public Health and a core faculty member of the Johns Hopkins Center for Injury Research and Policy. Her research agenda has focused on psychosocial and environmental factors and their impact on the burden of injuries among vulnerable populations. She investigates both intentional and unintentional injury risk factors, specifically those that increase risk of severe disability or death. Through her training and research experiences, she has an understanding of the social environment's impact on behaviors and developed skills to identify critical factors for positive behavior modification. Dr. Jones received her BS in Health Education from Bowling Green State University, her MPH from the University of North Carolina at Chapel Hill from the Department of Health Behavior and Health Education and her PhD from the Johns Hopkins Bloomberg School of Public Health from the Department of Health, Behavior and Society. She is currently investigating strategies that reduce violence among urban adolescents and motor vehicle crashes among older adults.

Alice Pomidor, MD, MPH, AGSF

Professor, Dept of Geriatrics
Florida State University College of Medicine
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Dr. Pomidor is a member of Florida's Safe Mobility for Life Coalition (SMFL), whose mission is to improve the safety, access and mobility of Florida's aging road users by developing a comprehensive strategic plan to reduce injuries and crashes among this vulnerable population. She is project co-manager for the SMFL's statewide survey of medical and social service professionals, to determine their current practices and needs regarding older drivers. Dr. Pomidor is also Chair of the American Geriatrics Society (AGS) Public Education Committee and Professor, Department of Geriatrics, Florida State University College of Medicine. She is Chair of the editorial board for a collaborative project between the AGS and the National Highway Traffic Safety Administration (NHTSA) to educate healthcare providers and the public about older driver safety. AGS and NHTSA are working together to revise and streamline web-based educational content based on the former *AMA Physician's Guide to Assessing and Counseling Older Drivers*, with the goal of increasing the number of participating interprofessional health care providers. She speaks frequently on the subject of driving and most recently co-authored a chapter on "Driving and the Older Adult" in *Reichel's Care of the Elderly*, 7th edition, 2015.

Loren Staplin, PhD

Managing Partner
TransAnalytics, LLC
Bethlehem, Pennsylvania
lstaplin@gmail.com

Dr. Staplin is an experimental psychologist who has served as principal investigator on over 30 research projects, with a strong focus on the relationship between age-related changes in driver functional abilities and traffic safety. Significant products of his work in this area include the *Safe Mobility for Older People Notebook*; the *Highway Design Handbook for Older drivers and Pedestrians*; the *Model Driver Screening and Evaluation Program: Guidelines for Motor Vehicle Administrators*; and two chapters in the 2004 Transportation Research Board (TRB) publication, *Transportation in an Aging Society: A Decade of Experience*. Dr. Staplin is the past Chair of the TRB Committee ANB30, Operator Education & Regulation, and currently serves as Chair of TRB Committee ANB60, Safe Mobility for Older Persons.

SPEAKERS

James Stowe, PhD

Clinical Research Specialist
Washington University School of Medicine
St. Louis, Missouri
JSTOWE@DOM.wustl.edu

Dr. Stowe is dedicated to helping older adults maintain safe mobility throughout the life course. He holds an MS in Gerontology from Kansas State University and a PhD in Human Development from the University of Missouri. Currently, he leads translational intervention trials in the School of Medicine's neuroscience driving simulation laboratory at Washington University in St. Louis. The purpose of the lab is to prolong safe driving life expectancy. He co-chairs the Missouri Coalition for Roadway Safety's Subcommittee on Elder Mobility and Safety -- a statewide group focused on the older driver portion of Missouri's Strategic Highway Safety Plan.

Janet S. Sunness, MD

Medical Director, Hoover Low Vision Rehabilitation Services
Greater Baltimore Medical Center
Baltimore Clinical Professor, Dept of Ophthalmology and Visual Sciences
University of Maryland School of Medicine
Baltimore, Maryland
jsunness@gbmc.org

Dr. Sunness is an ophthalmologist, specializing in low vision rehabilitation, and macular and retinal disease. She is the Medical Director of the Hoover Low Vision Rehabilitation Services at the Greater Baltimore Medical Center. She was on the Wilmer faculty for 20 years, during which she directed a large NIH-funded study of advanced dry age-related macular degeneration, whose findings have served as the basis for most clinical research and trials for this condition. She has done pioneering work in understanding how macular disease progresses, and how the patient can adapt to central visual loss. She was the 2011 recipient of the Gass Medal from the Macula Society and the 2014 Envision Award in Low Vision Research. She is on the Medical Advisory Board of the MVA, so she sees driving issues from the perspective of the treating physician and the patient, as well as from the perspective of the MVA to ensure safe driving. She received her hospital's Compassionate Caregiver Honor Award in 2009.

Thomas M. Welch

Traffic Safety Engineer, Iowa Department of Transportation (Retired)
Senior Safety Engineer, Leidos Inc.
Little Rock, Arkansas
twelch1950@yahoo.com

Tom served as the Iowa DOT State Transportation Safety Engineer until his retirement in 2010. He currently works part time for LEIDOS as a Senior Safety Engineer. LEIDOS is currently assisting the Maryland DOT with their highway safety program.

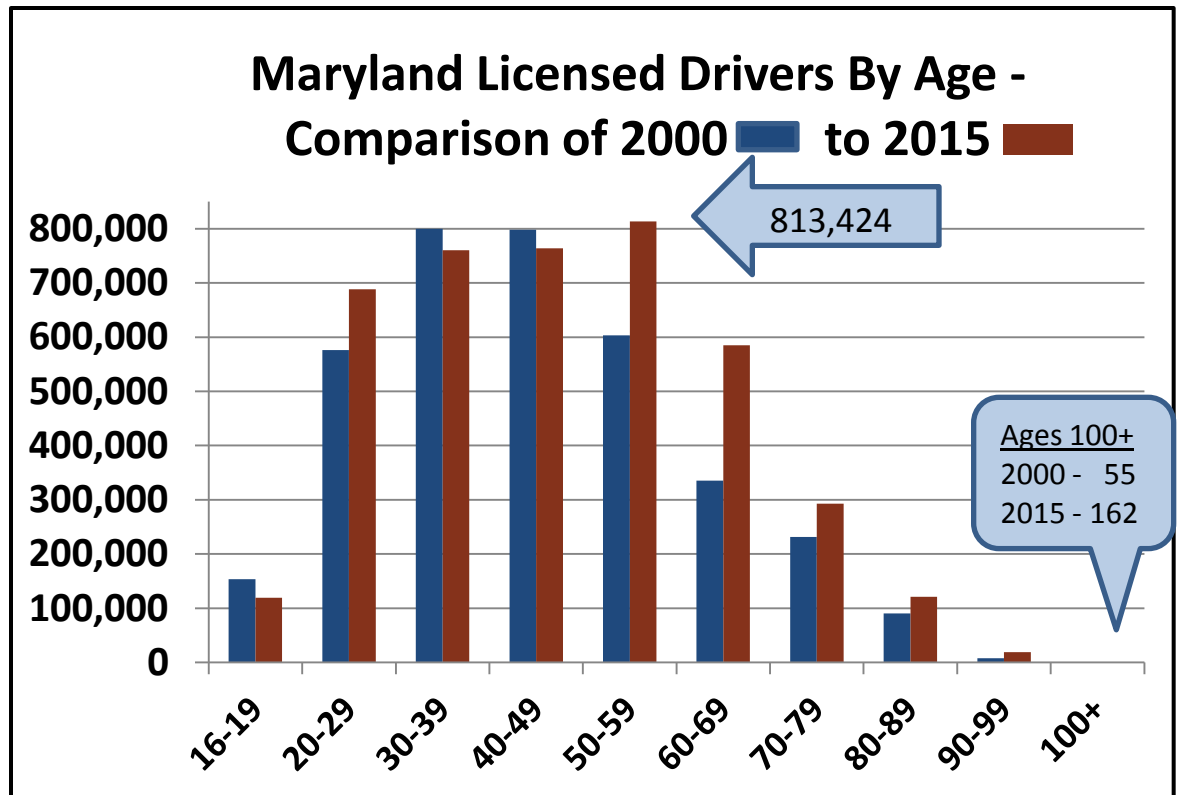
The Iowa Department of Transportation was one of the first States to put an emphasis on older driver mobility issues in their Highway Safety program. As such Tom was the keynote speaker at the 2004 North American Conference on Elderly Mobility. He also spoke at the ten year follow up 2014 North American Conference on Elderly Mobility. Mr. Welch was the recipient of the 2004 AASHTO President's Special Award of Merit in recognition of "Outstanding leadership, innovation and dedication to strategic highway safety initiatives in Iowa and across America". No other State Safety Engineer has received this award.

MARYLAND DEMOGRAPHICS

The future of demographics on the roadway IS older drivers –

- The most recent census numbers show Maryland’s population of older persons ages 60 and over at nearly 5.7 million people, which is 18.6% of the State’s total population.
- Maryland’s older population is increasing rapidly, and is expected to be 6.7 million people by the year 2030, which will be 25.8% of Maryland’s projected total population.
- Older drivers are generally considered to be ages 65 and over. As of January 2015, Maryland has over 4.1 million licensed drivers, of which 693,581 licensees are ages 65 and over. This is 16.7% of the total number of licensees.

- *Baby Boomers* are those born between 1946 and 1964, and they are the large segment of the population talked about as the *gray tsunami*.
- The youngest *Baby Boomers* turned 50 years old last year.



- As shown in the graph, Maryland’s largest group of licensed drivers by decade of age is now ages 50 – 59 years old – at 813,424 drivers. This group has grown by 35% since the year 2000.
- Over 44% of Maryland licensed drivers are now ages 50 and over.

Ages	2000	2015
16-19	153,475	119,332
20-29	575,850	688,421
30-39	800,070	759,980
40-49	797,963	763,556
50-59	603,179	813,424
60-69	335,540	584,858
70-79	231,640	292,660
80-89	90,176	121,024
90-99	7,540	18,874
100+	55	162

CRASH DATA

5 Top Crash Types for Older Drivers

- Turning left at an intersection with stop sign
- Turning left at an intersection on a green light without a dedicated green turn arrow
- Turning right at a yield sign to merge with traffic at speeds of 40 - 45 mph
- Merging onto a highway from a ramp that has a yield sign
- Changing lanes on a road that has four or more lanes

Source: NHTSA, Safety In Numbers (Dec 2013)

4 Most Common Errors Older Drivers Make Before an Intersection Crash

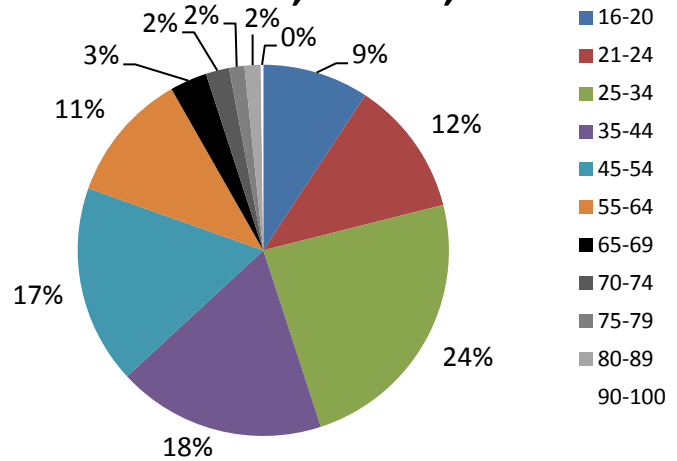
- Not noticing potential conflicts or traffic signs and signals.
- Misjudging gaps when crossing traffic.
- Moving or stopping the vehicle too slowly.
- Conducting a visual search poorly.

Source: NHTSA, Safety In Numbers (Dec 2013)

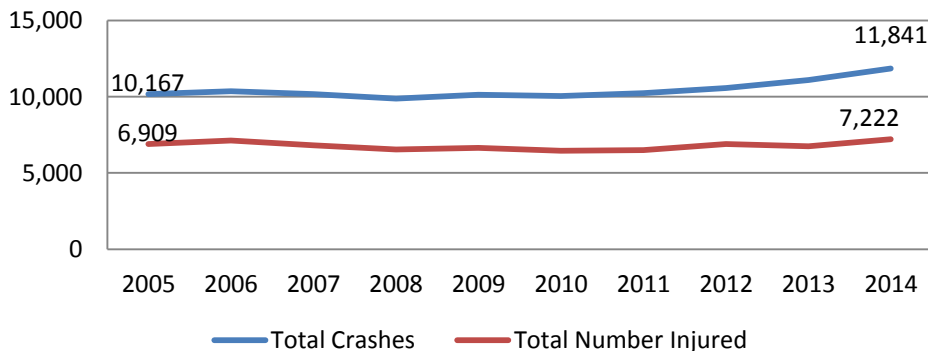
Older Driver Crashes in Maryland:

- Drivers ages 65 and over make up less than one-tenth (9%) of all drivers involved in crashes (Pie Chart), but more than 16% of all fatalities involve an older driver (Red Table below).
- The number of older driver-involved crashes and injuries has steadily increased over the past decade as seen in the graph below (20% increase in crashes).

Driver Involvement by Age, 2011-2013, N=406,802



Older Driver (65+) Involved Crashes and Associated Injuries (2005-2014) ♦

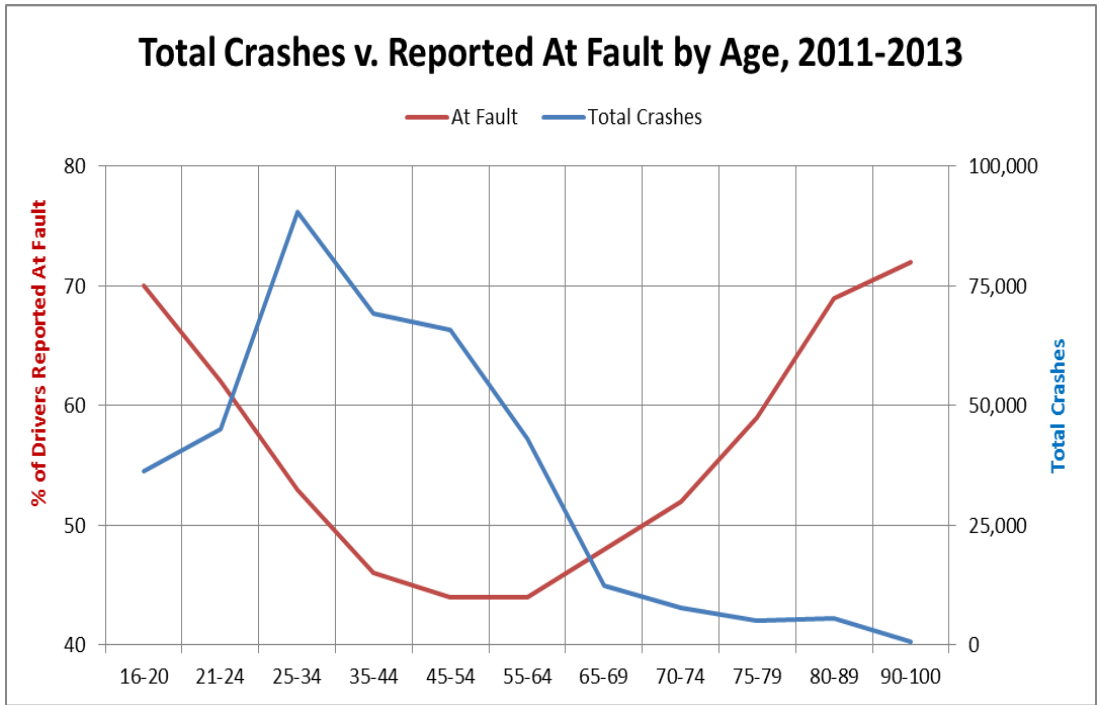


Percentage of Statewide Fatalities that are Older Driver Involved

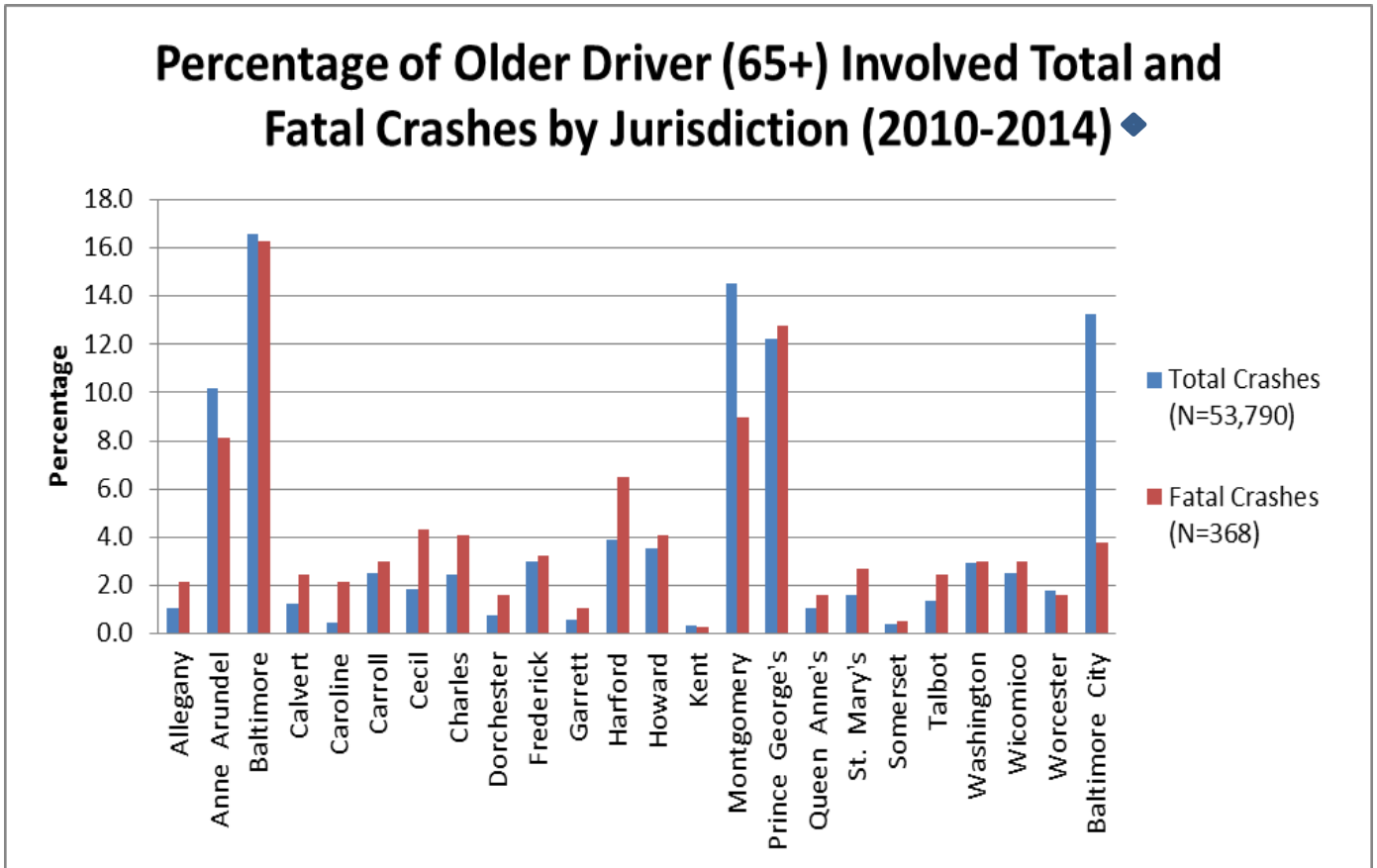
Year	%
2009	18.4
2010	16.1
2011	16.2
2012	15.9
2013	15.0
2014	19.5

MARYLAND CRASH DATA

- Crash involvement generally decreases as age increases after age 34 (blue line on chart).
- While the total number of crashes peak within the 25-34 year age group, the proportion of drivers reported to be at fault peaks within the youngest and oldest age groups.



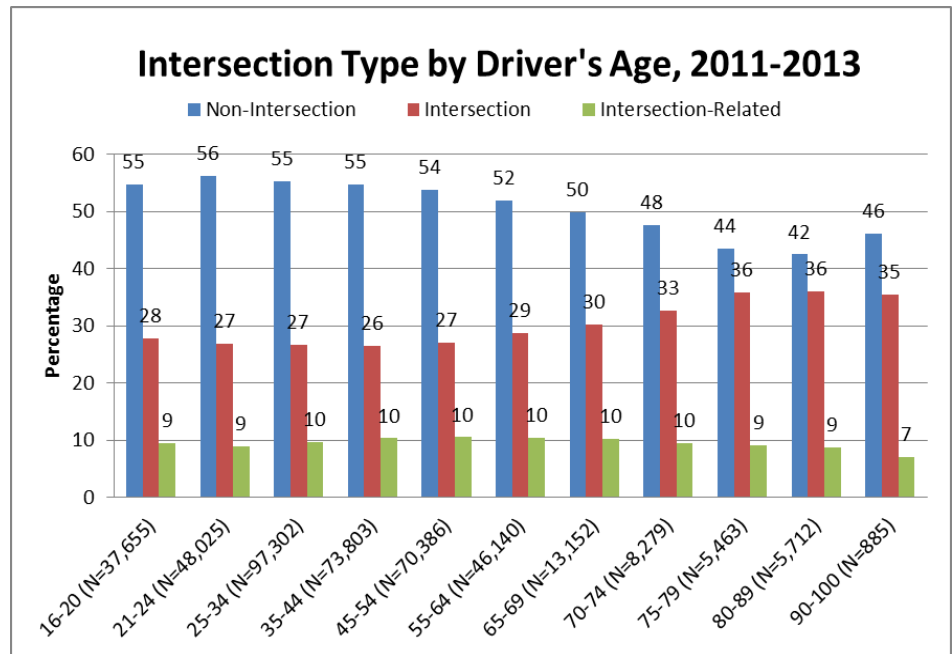
[Driver fault is determined by police officers at the time of the crash and recorded as yes/no on the crash report.]



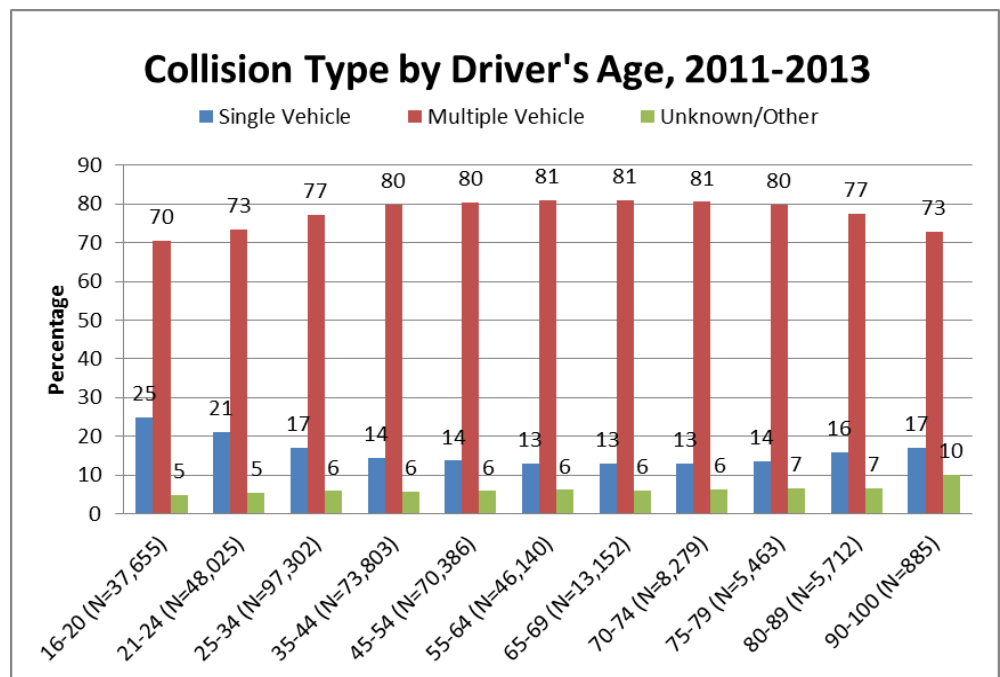
- Similar to the statewide trend, the majority of older driver crashes, including fatal crashes, occur in metropolitan jurisdictions.

MARYLAND CRASH DATA

- The proportion of intersection crashes increases with age.
- More older drivers were involved in crashes in an intersection. Among those 75-89, more than one-third occurred in an intersection.



- Approximately three-quarters (regardless of age) were involved in a multiple vehicle crash. Younger drivers were involved in single vehicle crashes more often than older drivers.



Maryland Crash data on pg(s) 19-21 prepared by: University of Maryland, Baltimore - STAR ORC - National Study Center for Trauma and EMS, 5/19/2015.

Data derived from the State Highway Administration Safety Information Database (SHA-SID), based on crash reports submitted to and processed by the Maryland State Police Central Records Division (CRD) utilizing the Enhanced Maryland Automated Accident Reporting System (eMAARS) and Automated Crash Reporting System (ACRS).

◆ 2014 police crash report data are preliminary and subject to change (for charts on pgs 19 & 20).

MEDICAL REVIEW PROCESS

Referral Received by Driver Wellness and Safety Division

Information requested from customer

- Physician's Report
- Health Questionnaire
- Authorization to Release Information
- Functional Capacity Test
- Other

Driver Wellness and Safety Division reviews collected information

Case forwarded to Medical Advisory Board (MAB) for review

Case reviewed by nurse (using MAB guidelines)

Additional information or assessments may be requested.

Additional information or assessments may be requested.

MAB issues recommendation to MVA
(Potential recommendations may include approval without restriction, approval with restriction, periodic follow-up, suspension, etc.)

MVA Reviews recommendation. Renders decision

Customer informed of final MVA decision

MEDICAL REFERRAL STATISTICS

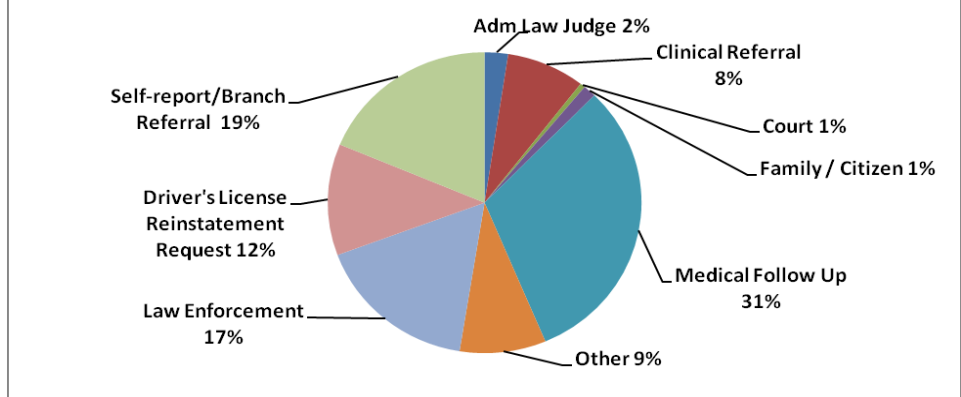
Health affects your driving. Many older drivers do not face serious medical conditions or functional limitations that affect their driving skills, but **all drivers** need to understand the impacts of health issues on driving and how to best manage potential risks.

Maryland licensed drivers may be referred to **MVA's medical review process** if there is a question of medical fitness to drive. If so, then MVA provides an individual review of the driver.

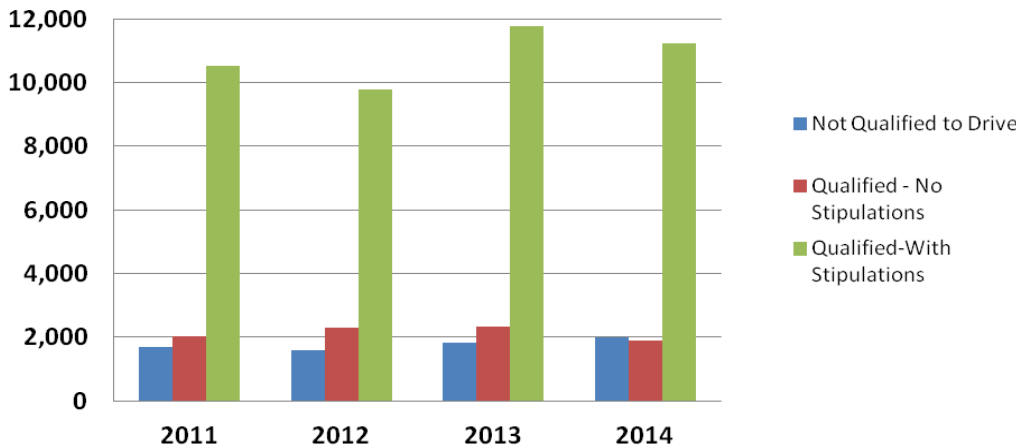
When a person is referred to the MVA's medical review process, the case is handled by **Driver Wellness & Safety Division**. A

nurse case manager reviews pertinent medical information from the individual's personal physician or other treatment providers, since those clinicians are most familiar with the individual's medical condition. The MVA nurse may request a consultation on the case from the **Medical Advisory Board**, which is comprised of physicians from various medical specialties. During the review process, the driver may be asked for additional information, including medical, driver knowledge or driving skill evaluations.

Composition of Referrals by Source, 2014



Medical Review Decisions Rendered by MVA



This chart shows that 88% of medical reviews for the period 2011 – 2014, resulted in drivers being qualified to retain their driver's license.

Total	2011	2012	2013	2014
Decisions	14,233	13,670	15,939	15,113

Qualified – No Stipulations means approval of applicant or driver and recommend the case be closed

Qualified – With Stipulations could mean:

- Retention / return of driving privilege, but requires periodic medical follow up with MVA
- Allows driving with certain restrictions placed on the license, such as daylight-driving only

Not Qualified to Drive means suspension/continued suspension of the driver's license until the medical condition is corrected or brought under control to permit safe driving

RECAP of FY-15

Workshops for Law Enforcement Officers

- November 6, 2014 in collaboration with the Prince George's County Police Department
 - ◊ More than 40 officers from 12 different jurisdictions attended
- March 24, 2015 in collaboration with the Harford County Sheriff's Office
 - ◊ More than 40 officers from the Baltimore region and the Eastern Shore attended
- Focus on resources & techniques to identify medically at-risk drivers, role of law enforcement on these issues, and specific training on

Workshop for Traffic Safety and Highway Design Engineers

- April 7, 2015, Hanover (& via video-conference to five other locations throughout the state)
- In collaboration with State Highway Administration and Federal Highway Administration
- Training on recently-updated *Handbook for Designing Roadways for the Aging Population*
- More than 80 engineers and planners from both SHA & local government

Workshops for Healthcare Professionals

- November 13, 2014, Easton, in collaboration with William Hill Manor and The Copper Ridge Institute, affiliated with Johns Hopkins University School of Medicine
 - ◊ More than 35 clinicians attended
- March 31, 2015, Waldorf, in collaboration with Partnership for Healthier Charles County and with University of Maryland Charles Regional Medical Center
 - ◊ Just under 90 health professionals attended
- Presentations on physical and cognitive issues with aging, MVA's medical review process and the aging driver demographic.

Workshops for Social Workers

- December 2, 2014, Rockville, in collaboration with Montgomery County Department of Health & Human Services and the Center for Continuous Learning
 - ◊ Almost 70 community service workers attended
- April 14, 2015, Centreville, in collaboration with the Queen Anne's County Department of Community Services & Area Agency on Aging
 - ◊ Nearly 25 social workers attended
- Presentations on physical and cognitive issues with aging, adaptive equipment for older drivers, MVA's medical review process, and the aging driver demographic

Physicians can now use the simple two-page DC-220 form, available on the MVA website, that gathers the information necessary to begin a medical review of a licensed driver.

Health care professionals can make a medical referral directly to MVA by providing a letter on their letterhead that states all the pertinent information.

For copies of the form and more information, go to www.mva.maryland.gov/olderdriversafety and click on [Helpful](#)

MVA Motor Vehicle Administration
9901 Ritchie Highway, N.E.
Glen Burnie, Maryland 21062

Voluntary Physician Referral to the Maryland Motor Vehicle Administration

Note: This form is only to be used for a physician referral.

Patient's Name: (last) _____

Soundex (to be completed by MVA) _____

Please check any of the medical condition(s) below driving and provide an explanation. Note: Currently, a license or applicant for a driver's license that has been diagnosed as having any of the following disorders:

Cerebral Palsy _____

Diabetes requiring insulin _____

Epilepsy _____

Multiple Sclerosis _____

Muscular Dystrophy _____

Irregular heart rhythm or heart condition _____

LAW ENFORCEMENT

Law Enforcement Officers can now make a medical referral directly to MVA electronically – via the Delta Plus system maintained by Maryland State Police, which is the same system that makes electronic ticketing available to **all law enforcement statewide**. The eReferral system provides an easy way for officers in the field to make referrals of medically at-risk drivers to MVA.

Since deployment of the eReferral system in October 2013, there has been a marked increase of referrals from law enforcement. MVA continues to provide training workshops statewide to help law enforcement identify medically at-risk drivers and make appropriate referrals, when necessary, to MVA.



Get copies of the *Red Flag Tip Card* for law enforcement (see below), and find more information on eReferrals at www.mva.maryland.gov/Police/

Red Flags of Medically At-Risk Drivers




Look for “Red Flags” when you make a stop:

- Does the driver have difficulty communicating/ do the answers make sense?
- Does the driver seem confused when following your instructions or have difficulty producing ID?
- Does the driver recall the time of day, day of the week, month, or year?
- Does the driver admit to being unaware of other vehicles or pedestrians?
- Does the driver understand the laws ignored or violated?

If the behavior you observe raises Red Flags about a potential medical condition that affects safe driving, **MAKE THE REFERRAL:**

Check-off Indicators:

<input type="checkbox"/> Confused/disoriented <input type="checkbox"/> Lost or confused while driving near home <input type="checkbox"/> Drowsy <input type="checkbox"/> Blackout <input type="checkbox"/> Seizure <input type="checkbox"/> Fainting Spell <input type="checkbox"/> Alcohol/drug use <input type="checkbox"/> Prescription medication <input type="checkbox"/> Weakness/poor coordination	<input type="checkbox"/> Walking/balance problem <input type="checkbox"/> Vision problem <input type="checkbox"/> Not reacting to vehicles/pedestrians <input type="checkbox"/> Not adequately controlling vehicle <input type="checkbox"/> Driving too slow or inappropriately stopping <input type="checkbox"/> Driving on wrong side of road/wrong lane
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YOU are the first line of defense:
Your attention and appropriate referral **COULD** prevent a crash!

Request for Re-exam (RRE) (DC-039) makes a medical referral to MVA for an individual review of a driver’s functional ability to drive safely.



Submit **electronically** on E-TIX Delta Plus:
MVA Driver Re-Exam

If your agency is **NOT** on E-TIX, complete the DC-039 form and submit manually

An effective RRE includes:

- Specific information about **YOUR CONCERNS** and why the driver should be reviewed
- Specific **BEHAVIORS YOU OBSERVED** – physical and mental impairments

It’s important to report because:

- It introduces the driver, their family, and their healthcare providers to a potential medical condition that affects safe driving
- Documenting traffic stops provides a history that can track and determine potentially unsafe developing patterns

Resources for YOU, drivers, family & caregivers

www.mva.maryland.gov/Police/
 MVA’s website offers information and links on:
 Aging, health and affects on driving;
 Driver assessment, training and rehabilitation;
 Understanding MVA’s medical referral process; and
 Transportation alternatives to driving
www.mva.maryland.gov/DriverSafety

MD Motor Vehicle Administration
 Driver Wellness & Safety Division
 6601 Ritchie Highway, Glen Burnie, MD 21062
 Phone: 410-768-7511
 Email: MVACS@mdot.state.md.us

DC-215 (10-13)

DRAWING PRIZE INFORMATION

4 BIG DRAWINGS FOR PRIZES!!!

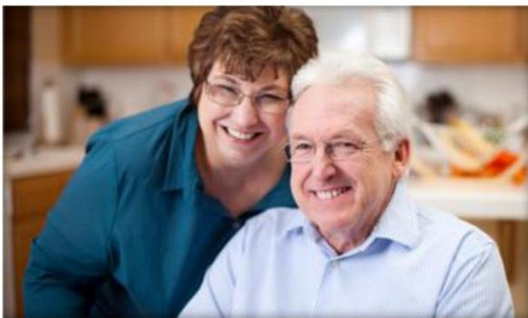
(MUST BE PRESENT TO WIN)

- ✓ **MVA Goody Package, includes \$50 Visa Gift Card**
(donated by MVA and AAA Mid-Atlantic)
- ✓ **\$50 VISA Gift Card** (donated by AAA Mid-Atlantic)
- ✓ **AAA Goody Package, includes a Membership, Atlas, etc.** (donated by AAA Mid-Atlantic)
- ✓ **Emergency Road Kit** (donated by AAA Mid-Atlantic)



AAA.com/SeniorDrivers

Providing Evidence-Based Senior Driver Safety and Mobility Resources



- Assisting senior drivers and their families plan for the inevitable, and often difficult, transition from driver to passenger
- Interactive tools and resources that evaluate driving ability
- Expert advice on how aging affects one's ability to drive safely

Safety educators from the Mid-Atlantic Foundation for Safety and Education and AAA Mid-Atlantic, provide reliable guidance and answers to your questions about aging, driving and mobility.



For more information or to schedule a presentation on Senior Driver Safety, visit aaa.com/foundation
Call 410-616-1900 x-61154 or
email mwieman@aaamidatlantic.com





www.mva.maryland.gov