This appendix provides an overview of the functional testing instruments to be used in this study and their relationship to study goals and traffic safety applications. It is important to note scores on these tests will be linked with and compared to each participant's driving performance and exposure.

Please note that these instruments have undergone thorough validity (they test the domain they purport to test) and reliability (a person retaking the test would obtain a similar score) testing. They test subjects to determine 1) that they have been assigned to the appropriate study group, and 2) have the ability to safely operate a vehicle. These data are not considered "information" as defined under the PRA per *Memorandum For The Heads Of Executive Departments And Agencies And Independent Regulatory Agencies*, OMB Regulations, exemption 7 (see page 8), retrieved from https://www.whitehouse.gov/sites/default/files/omb/assets/inforeg/PRAPrimer_04072010.pdf on August 7, 2015."

Countermeasures developed from the information collected in this study will include developing guidelines that State driver licensing agencies, health care professionals, and the general public can use in understanding the effects of physical activity on an older driver's crash risk, and determining the likelihood that increasing activity level will reduce such risk.

Domain	Description	Application to Traffic Safety		
DrivingHealth [®] Inventory functional screening program				
Executive Function	The ability to apply reasoning an problem solving for planning and decision making while driving. E functioning can decline in older with more severe deficits found with dementia.	lts, with pavigation (getting los	iately, particularly in confusion and difficulties t) often result when	
Visual Search (with Divided Attention)	Attention is the awareness of se elements of one's environment; attention is attention to multiple elements so as to carry out mult tasks concurrently.	ided environment to detect and s of safety-relevant stimuli, e.g.	attend to the most , a traffic signals, signs,	
Leg Strength & Stamina	The ability to use the accelerato brake pedals effectively for smo control of vehicle speed.	d ability to rapidly and accura between the accelerator ar	In normal traffic and in emergency situations, the ability to rapidly and accurately shift one's foot between the accelerator and brake pedals according to the demands of the moment is essential for safe driving.	
Head/neck Flexibility	The ability to rapidly check in bo directions for cross-traffic, and t over the shoulder.	ok rear, including blind spots, or changing lanes, and quic	A driver needs to be able to scan to the sides and rear, including blind spots, before backing, merging, or changing lanes, and quickly check for conflicts from both directions at intersections.	