

Participant Information Sheet: The Canada Naturalistic Driving Study

The Canada Naturalistic Driving Study is a large research effort directed at improving Highway Safety in Canada where highway-related accidents accounted for over 2,200 fatalities and more than 11,200 serious injuries in 2010. The study will help researchers gain a deeper understanding of the interaction between the driver, vehicle and roadway and lead to safer roadways, vehicles, and driver training programs. The Canada Naturalistic Driving Study will look at how people normally drive by installing cameras and sensors in people's own vehicles. The study is being conducted in Saskatoon with 125 participants. Length of enrolment will vary from 12 to 24 months, with those recruited earlier in the study expected to participate longer.

If you decide to participate in the study, we will install several pieces of data collection equipment in the vehicle you normally drive. The equipment will collect data continuously, from the time the vehicle is turned on until it is turned off. There will be video of your face, arms, and legs that will tell us what you do while you drive. There will also be video of the forward roadway and the roadway behind the vehicle. GPS will provide the location of the vehicle. Sensors will measure speed, braking, turn signal use and other vehicle and driver behaviours.

The risk while driving will be the same as the risk of driving when not in the study. Although there is only a low probability of occurrence, the biggest risk believed to be associated with participation in this study is the possibility that someone could obtain your data and use it in a way that harms you legally, financially, or emotionally. To prevent this, we have taken several steps to ensure your confidentiality and the confidentiality of your passengers and other people who drive your car:

- The data will be encrypted (made unreadable) from the time it is collected until it is transferred to a high security data center. Once it is at the data center, care will be taken that the data are only used for legitimate research purposes.
- Data that can identify you, such as video of your face and the GPS locations of your home, work, or school, will be handled with extra care and will only be available to select researchers in a secure data center.
- The data of other drivers who have not signed a consent form will be deleted after data processing identifies them as unconsented drivers. All attempts will be made to not collect identifying video information on passengers in the vehicle.

If you decide to participate, you will be asked to do the following things:

- Provide us with proof of a valid Canadian driver's licence, vehicle insurance, and vehicle ownership (or written permission from the vehicle's owner).
- Undergo a consent process which includes reviewing and signing a consent form.
- Allow us to install the data collection equipment in the vehicle.
- Undergo tests of vision, memory, decision making, attention, body movement, and strength.
- Complete questionnaires about your health and your driving behaviour, history, and knowledge.
- If you are in a crash, we may ask you later to participate in an interview about the crash and allow us to look at the police accident report.

Compensation for participation in the study is equivalent to \$450 per year.