

Attachment A
New Variables for Investigation of Motor-Vehicle Crashes Involving
Wheelchair-Seated Occupants

Type of Wheelchair

- 0) standard manual
- 1) stroller type
- 2) standard powered
- 3) powerbase
- 4) three-wheel powered scooter
- 5) four-wheeled powered scooter
- 6) other (specify): _____
- 9) unknown

Type of Wheelchair Seating System

- 0) sling seat and seatback
- 1) rigid seat and seatback (with or without padding)
- 2) special contoured seating system
- 3) other (specify): _____
- 9) unknown

Wheelchair Seating System Adjustments

- 1) fixed seat and seatback
- 2) fixed seat and reclining seatback
- 3) tilt-in-space
- 4) other (specify): _____
- 9) unknown

Wheelchair Occupant Orientation in Vehicle

- 1) facing forward
- 2) facing aisle
- 3) facing rearward
- 4) angled (specify): _____
- 9) unknown

Wheelchair Securement System

- 1) four-point strap
- 2) auto-engage docking
- 3) wheel-rim clamps
- 4) frame clamps
- 5) none
- 6) other (specify): _____
- 9) unknown

Wheelchair Occupant Belt Restraints Used

- 1) vehicle-anchored three-point belt
- 2) vehicle-anchored lap belt only
- 3) vehicle-anchored lap belt + vehicle-anchored shoulder belt
- 4) vehicle-anchored lap belt with double shoulder harness
- 5) wheelchair-anchored lap belt – no shoulder belt
- 6) wheelchair-anchored lap belt with vehicle-anchored shoulder belt
- 7) wheelchair-anchored three-point belt
- 8) wheelchair-anchor four-point harness
- 9) wheelchair anchored-five-point harness
- 10) none
- 11) other (specify): _____
- 12) unknown

Wheelchair-Anchored Postural Belts

- 1) none
- 2) lap belt
- 3) lap and chest belt
- 4) subbasis bar
- 5) side pads
- 6) other (specify): _____
- 9) unknown

Type of Rear Head Restraint

- 1) none
- 2) attached to wheelchair
- 3) attached to vehicle
- 4) other (specify): _____
- 9) unknown

Post-Crash Condition of Wheelchair

- 1) no or minor damage/deformation
- 2) moderate damage/deformation
- 3) major damage/deformation
- 4) other (specify): _____
- 9) unknown

Post-Crash Condition of Wheelchair Seating System

- 1) seat and seatback intact
- 2) seat broken/collapsed
- 3) seatback broken
- 4) seat and seatback broken
- 5) other (specify): _____
- 9) unknown

Post-Crash Condition of Wheelchair Tiedown System

- 1) system intact with no signs of failure or deformation
- 2) system intact but with significant deformation
- 3) partial failure of a load-carry component
- 4) total failure of a load-carry component
- 5) other (specify): _____
- 9) unknown

Post-Crash Condition of Occupant Restraints

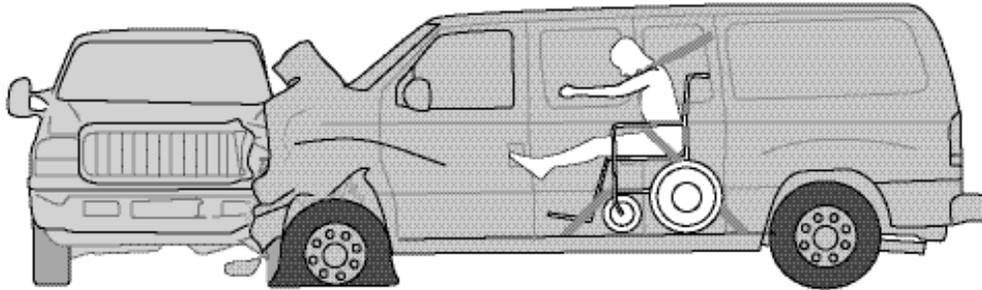
- 1) system intact with no signs of failure or deformation
- 2) system intact but with significant deformation
- 3) signs of partial failure of a load-carrying component
- 4) total failure of a load-carrying component
- 5) other (specify): _____
- 9) unknown

Post-Crash Condition of Postural Belts/Supports

- 1) no postural belts or supports used
- 2) no signs of damage
- 3) postural belts/supports detached from wheelchair
- 4) postural belts/supports deformed or unbuckled
- 5) other (specify): _____
- 9) unknown

WANTED !

notifications of crashes and other moving-vehicle incidents involving wheelchair-seated travelers



Please contact Larry Schneider at:

734 936-1103

and leave your name and phone number, or
send an email to:

lws@umich.edu

Prompt notification is essential.

Participation in this study is voluntary and contingent on providing signed consent.
All information will be coded and sanitized so as not to
identify individuals, accident scenes, or products.