

Appendix

Power Wheelchair Users - Interview Schedule (Selected Questions Related to Collision Avoidance Technology)

Tell me about your experiences of using your wheelchair.

Probes:

- How did you first come to be in a wheelchair?
- Did you receive any training regarding the use of your power wheelchair?
 - How did you acquire the wheelchair?
 - How did you learn how to use the wheelchair?
 - How much training did you receive?
 - Who was the instructor?
 - What types of things did they teach you?
 - What did you like/not like about the training?
 - What was missing in the training, if anything?
- Tell me about a typical day of using your wheelchair.
 - Do you leave your house? Why or why not?
 - Do you leave your community? Why or why not?
 - What kinds of activities do you do in your wheelchair?
 - Are there particular places where you feel more or less comfortable in your wheelchair? Tell me about that.
- How has your wheelchair use changed over time, if at all?
 - How many wheelchairs have you used?
 - How many wheelchairs do you currently use?
 - What specific features does your current wheelchair have/not have?
 - Which of your wheelchairs have you liked best/least and why?
- How has your use of a power wheelchair influenced your daily life?
 - How has your wheelchair helped/restricted you?
 - What activities were you able to begin to participate in because of your power wheelchair, if any?
 - What kinds of activities do you not participate in because of your wheelchair, if any?
 - What difficulties or barriers do you encounter when using your wheelchair?
 - What strategies do you use/have you tried to overcome these difficulties or barriers? Which strategies have been successful and why? Which strategies have been unsuccessful and why?

As you reflect on the future, do you have any concerns about being able to continue to use your wheelchair?

Probes:

- If your health were to change, how do you think this would affect your use of a power wheelchair?
- We hear about how hard it is for some people to give up their driver's licenses. What would it be like for you to have to give up your power wheelchair?
- Do you have any concerns about safety in your wheelchair?
- Have you observed or experienced any accidents in your wheelchair?

I want to ask you about some of the ideas that engineers are currently working with in their development of wheelchairs and get your input.

Probes:

- Would it be useful for you to have wheelchair technology that would warn you when you are about to run into an obstacle? Why or why not?
- Would it be useful to have technology that could stop the wheelchair from running into an obstacle before the wheelchair hits it? Why or why not?
- Would it be useful for you to have wheelchair technology that helped you plan how to get from one place to another? Why or why not?