MODULE A:

SURVEY MODULES TO MEASURE ASSISTIVE TECHNOLOGY AND THE HOME ENVIRONMENT: RECOMMENDED 8-10 MINUTE MODULES
Survey Modules to Measure
Assistive Technology and the Home Environment

Recommended 8-10 Minute Modules

For additional information contact:

Vicki A. Freedman, Ph.D.*
University of Medicine and Dentistry of New Jersey
School of Public Health
e-mail: vfreedman@umdnj.edu

Emily M. Agree, Ph.D.
Johns Hopkins Bloomberg School of Public Health
e-mail: eagree@jhsph.edu

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Instructions to Train Interviewers

Read only response options in lower case. If the responses to a question are typed in upper case letters, they should not be read to the respondent.

Offer the interviewer the option of not reading repetitive response choices. Several of the modules involve sequences of questions with repetitive response choices. We recommend offering interviewers the option of not reading response options once respondents have demonstrated learning the response pattern, generally not before the third time.

Provide definition if needed. Definitions for items that may be unfamiliar to some respondents are provided. These are intended to be read only as needed. Interviewers should be trained to read definitions only if the respondent asks for clarification or definition of a term or if the respondent conveys confusion about the meaning of the question.

Read introductory phrases in parentheses as needed for clarity. In several cases, questions in a series use a similar introductory phrase. When a respondent is routed into a detailed follow-up sequence the introduction should not appear in parentheses and should be read. Where the questions are moving rapidly in a sequence (for example, where the respondent is saying "no" to all device use questions and skips past the detailed use items) the introductory phrase should appear parenthetically and may be included as needed for clarity.

Instructions for new construction and home improvement (HE module). When respondents have made improvements (e.g., upgraded a grab bar) or renovations to an existing home (e.g., remodeled a bathroom), they should code the upgraded features as "added (or upgraded)." If respondents have difficulty separating out the cost of these features from the rest of the renovation/building costs, interviewers should repeat the list of items that were added and ask them to focus on the cost of only those features. If the respondent is unable to separate the cost of the feature from the larger project then mark 'don’t know'.

Note on Conventions Used in Instrument

HOME ENVIRONMENT MODULE

We are interested in features of your home and items you have to make your daily activities easier, safer, or so you can do them on your own. First I have some questions about your home.

HE-1. Is your home part of a building that has two or more apartments or units with a common or shared entrance?

<table>
<thead>
<tr>
<th>BLDGUNIT</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. YES</td>
<td></td>
</tr>
<tr>
<td>2. NO</td>
<td></td>
</tr>
<tr>
<td>-7. REFUSED</td>
<td></td>
</tr>
<tr>
<td>-8. DON’T KNOW</td>
<td></td>
</tr>
</tbody>
</table>

NOTE TO USER

HE-1 is used to fill and skip items in the Home Environment Module (fills HE-2 and skips HE-3 through HE-8) and to fill items in the Mobility and Other Devices Module (MO-2.1b, MO-2.2b, MO-2.3b, MO-2.4b, MO-2.1c, MO-2.2c, MO-2.3c, and MO-2.4c).

HE-2 CATI FILL INSTRUCTIONS

IF (HE-1= 2, -7, -8) THEN DISPLAY “home” in HE-2
ELSE IF (HE-1=1) THEN DISPLAY “building” in HE-2

HE-2. In the last 30 days, how often have you left your {home/building} to go outside? Was it …

<table>
<thead>
<tr>
<th>LEFTBLDG</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. every day or almost every day,</td>
<td></td>
</tr>
<tr>
<td>2. several times a week,</td>
<td></td>
</tr>
<tr>
<td>3. once a week,</td>
<td></td>
</tr>
<tr>
<td>4. less than once a week, or</td>
<td></td>
</tr>
<tr>
<td>5. never</td>
<td></td>
</tr>
<tr>
<td>-7. REFUSED</td>
<td></td>
</tr>
<tr>
<td>-8. DON’T KNOW</td>
<td></td>
</tr>
</tbody>
</table>

NOTE TO USER

HE-2 is used to skip items in the Home Environment Module (HE-5.3a, HE-10.3b), the Mobility and Other Devices Module (MO-2.1c, MO-2.2c, MO-2.3c, MO-2.4c, MO-2.5, MO-4.1, MO-4.2, MO-4.2a, MO-4.2b, and MO-4.3), and the Residual Difficulty Module (RD-6.4a).

CATI SKIP INSTRUCTIONS

IF (HE-1= 2, -7, or -8) GO TO HE-9

HE-3. Thinking about the entrance you use most often, do you have to use stairs or step up or down to get into your building from outside?

<table>
<thead>
<tr>
<th>BLDGSTEP</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. YES</td>
<td></td>
</tr>
<tr>
<td>2. NO</td>
<td></td>
</tr>
<tr>
<td>-7. REFUSED</td>
<td></td>
</tr>
<tr>
<td>-8. DON’T KNOW</td>
<td></td>
</tr>
</tbody>
</table>

HE-4. Is this a common or shared entrance, or is it an entrance directly into your home?

<table>
<thead>
<tr>
<th>BLDGENTR</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. COMMON OR SHARED ENTRANCE [GO TO HE-5]</td>
<td></td>
</tr>
<tr>
<td>2. ENTRANCE DIRECTLY INTO HOME [GO TO HE-10]</td>
<td></td>
</tr>
<tr>
<td>-7. REFUSED</td>
<td></td>
</tr>
<tr>
<td>-8. DON’T KNOW</td>
<td></td>
</tr>
</tbody>
</table>
HE-5. Does this entrance have …

<table>
<thead>
<tr>
<th>HE-5.1 working lights?</th>
<th>BLDGLITE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. YES</td>
<td>[GO TO HE-5.3a]</td>
</tr>
<tr>
<td>2. NO</td>
<td>[GO TO HE-5.4]</td>
</tr>
<tr>
<td>-7. REFUSED</td>
<td>[GO TO HE-5.4]</td>
</tr>
<tr>
<td>-8. DON'T KNOW</td>
<td>[GO TO HE-5.4]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HE-5.2 handrails leading to the entrance?</th>
<th>BLDGRAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. YES</td>
<td>[GO TO HE-5.3a]</td>
</tr>
<tr>
<td>2. NO</td>
<td>[GO TO HE-5.4]</td>
</tr>
<tr>
<td>-7. REFUSED</td>
<td>[GO TO HE-5.4]</td>
</tr>
<tr>
<td>-8. DON'T KNOW</td>
<td>[GO TO HE-5.4]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HE-5.3 a ramp?</th>
<th>BLDGRAMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. YES</td>
<td>[GO TO HE-5.3a]</td>
</tr>
<tr>
<td>2. NO</td>
<td>[GO TO HE-5.4]</td>
</tr>
<tr>
<td>-7. REFUSED</td>
<td>[GO TO HE-5.4]</td>
</tr>
<tr>
<td>-8. DON'T KNOW</td>
<td>[GO TO HE-5.4]</td>
</tr>
</tbody>
</table>

CATI SKIP INSTRUCTIONS
IF HE-2=5 then go to HE-5.4

<table>
<thead>
<tr>
<th>HE-5.3a In the last 30 days when you left your home, did you use the ramp …</th>
<th>BLDRMP30</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. every time</td>
<td></td>
</tr>
<tr>
<td>2. most times</td>
<td></td>
</tr>
<tr>
<td>3. sometimes</td>
<td></td>
</tr>
<tr>
<td>4. rarely, or</td>
<td></td>
</tr>
<tr>
<td>5. never?</td>
<td></td>
</tr>
<tr>
<td>6. DIDN'T LEAVE HOME</td>
<td></td>
</tr>
<tr>
<td>-7. REFUSED</td>
<td></td>
</tr>
<tr>
<td>-8. DON'T KNOW</td>
<td></td>
</tr>
</tbody>
</table>

[READ INTRO “Does this entrance have …” AND FILL IN BLANK WITH ITEM IN HE-5.4]

<table>
<thead>
<tr>
<th>HE-5.4 automatic doors?</th>
<th>BLDGDOOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. YES</td>
<td>[GO TO HE-7]</td>
</tr>
<tr>
<td>2. NO</td>
<td>[GO TO HE-11]</td>
</tr>
<tr>
<td>-7. REFUSED</td>
<td>[GO TO HE-11]</td>
</tr>
<tr>
<td>-8. DON'T KNOW</td>
<td>[GO TO HE-11]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HE-6. Is your building more than one story?</th>
<th>BLDGLVL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. YES</td>
<td>[GO TO HE-7]</td>
</tr>
<tr>
<td>2. NO</td>
<td>[GO TO HE-11]</td>
</tr>
<tr>
<td>-7. REFUSED</td>
<td>[GO TO HE-11]</td>
</tr>
<tr>
<td>-8. DON'T KNOW</td>
<td>[GO TO HE-11]</td>
</tr>
</tbody>
</table>
HE-7. Is the building entrance that you use most often on the same floor as your home?

BLDGFLOR
1. YES [GO TO HE-11]
2. NO
   -7. REFUSED
   -8. DON’T KNOW [GO TO HE-8]

HE-8. Does your building have an elevator?

BLDGELEV
1. YES
2. NO [GO TO HE-11]
   -7. REFUSED
   -8. DON’T KNOW

HE-9. Thinking about the entrance you use most often, do you have to use stairs, or step up or down, to get into your home from outside?

HOMESTEP
1. YES
2. NO
   -7. REFUSED
   -8. DON’T KNOW

HE-10. Does this entrance have …

HE-10.1 working lights?
LITEHOME
1. YES
2. NO
   -7. REFUSED
   -8. DON’T KNOW

HE-10.2 handrails leading to the entrance?
RAILHOME
1. YES [GO TO HE-10.2 a]
2. NO
   -7. REFUSED
   -8. DON’T KNOW [GO TO HE-10.3]

HE-10.2a Were these rails there when you moved in or were they added?
RAILADD
1. THERE WHEN MOVED IN
2. ADDED (OR UPGRADED)
   -7. REFUSED
   -8. DON’T KNOW

[READ INTRO “Does this entrance have …” AND FILL IN BLANK WITH ITEM IN HE-10.3]
Now, I’d like to ask you some questions about the inside of your home.

**HE-11. Is your living space on more than one floor?**

HOMELVL

1. YES [GO TO HE-12]  
   2. NO  
   -7. REFUSED  
   -8. DON’T KNOW  

READ INTRO “Whether or not you use it, does your home have...” AND GO TO HE-12.5]

**HE-12. Whether or not you use it, does your home have...**

**HE-12.1 a bedroom, kitchen, and bath on the same floor?**

FLORHOME

1. YES  [GO TO HE-12.2 a]  
   2. NO  
   -7. REFUSED  
   -8. DON’T KNOW

**HE-12.2 [Whether or not you use it, does your home have...] an elevator ?**

ELEVHOME

1. YES  [GO TO HE-12.2 a]  
   2. NO  
   -7. REFUSED  
   -8. DON’T KNOW  

**HE-12.2a Was the elevator there when you moved in or was it added?**

ELEVADD

1. THERE WHEN MOVED IN  
2. ADDED (OR UPGRADED)  
-7. REFUSED  
-8. DON’T KNOW

**HE-12.2b In the last 30 days when you went upstairs or downstairs, did you use the elevator ...**

ELEV30

1. every time  
2. most times  
3. sometimes  
4. rarely, or  
5. never?  
6. DIDN’T GO UP OR DOWN STAIRS  
-7. REFUSED  
-8. DON’T KNOW  
[READ INTRO “Whether or not you use it, does your home have ...“ AND FILL IN BLANK WITH ITEM IN HE-12.3]
**DEFINITION (IF NEEDED):**
A chair lift or stair glide is a motorized chair that runs up and down a staircase. You ride on a seat and get on and off at the top and bottom of the stairs.

**HE-12.3** [Whether or not you use it, does your home have...] a chair lift or stair glide?

<table>
<thead>
<tr>
<th>LIFTHOME</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. YES</td>
<td>[GO TO HE-12.3a]</td>
</tr>
<tr>
<td>2. NO</td>
<td>[GO TO HE-12.4]</td>
</tr>
<tr>
<td>-7. REFUSED</td>
<td></td>
</tr>
<tr>
<td>-8. DON’T KNOW</td>
<td></td>
</tr>
</tbody>
</table>

**HE-12.3a** Was it there when you moved in or was it added?

<table>
<thead>
<tr>
<th>LIFTADD</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. THERE WHEN MOVED IN</td>
<td></td>
</tr>
<tr>
<td>2. ADDED (OR UPGRADED)</td>
<td></td>
</tr>
<tr>
<td>-7. REFUSED</td>
<td></td>
</tr>
<tr>
<td>-8. DON’T KNOW</td>
<td></td>
</tr>
</tbody>
</table>

**HE-12.3b** In the last 30 days when you went upstairs or downstairs, did you use the chair lift or stair glide ...

<table>
<thead>
<tr>
<th>LIFT30</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. every time</td>
<td></td>
</tr>
<tr>
<td>2. most times</td>
<td></td>
</tr>
<tr>
<td>3. sometimes</td>
<td></td>
</tr>
<tr>
<td>4. rarely, or</td>
<td></td>
</tr>
<tr>
<td>5. never?</td>
<td></td>
</tr>
<tr>
<td>6. DIDN’T GO UP OR DOWN STAIRS</td>
<td></td>
</tr>
<tr>
<td>-7. REFUSED</td>
<td></td>
</tr>
<tr>
<td>-8. DON’T KNOW</td>
<td></td>
</tr>
</tbody>
</table>

[READ INTRO “Whether or not you use it, does your home have …” AND FILL IN BLANK WITH ITEM IN HE-12.4]

**HE-12.4** [Whether or not you use them, does your home have...] handrails in any of the staircases?

<table>
<thead>
<tr>
<th>RAILIHOM</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. YES</td>
<td>[GO TO HE-12.4a]</td>
</tr>
<tr>
<td>2. NO</td>
<td>[GO TO HE-12.5]</td>
</tr>
<tr>
<td>-7. REFUSED</td>
<td></td>
</tr>
<tr>
<td>-8. DON’T KNOW</td>
<td></td>
</tr>
</tbody>
</table>

**HE-12.4a** Were these rails there when you moved in or were any of them added?

<table>
<thead>
<tr>
<th>RAILIADD</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. THERE WHEN MOVED IN</td>
<td></td>
</tr>
<tr>
<td>2. ADDED (OR UPGRADED)</td>
<td></td>
</tr>
<tr>
<td>-7. REFUSED</td>
<td></td>
</tr>
<tr>
<td>-8. DON’T KNOW</td>
<td></td>
</tr>
</tbody>
</table>

**HE-12.4b** In the last 30 days when you went upstairs or downstairs, did you use the handrails...

<table>
<thead>
<tr>
<th>RAILI30</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. every time</td>
<td></td>
</tr>
<tr>
<td>2. most times</td>
<td></td>
</tr>
<tr>
<td>3. sometimes</td>
<td></td>
</tr>
<tr>
<td>4. rarely, or</td>
<td></td>
</tr>
<tr>
<td>5. never?</td>
<td></td>
</tr>
<tr>
<td>6. DIDN’T GO UP OR DOWN STAIRS</td>
<td></td>
</tr>
<tr>
<td>-7. REFUSED</td>
<td></td>
</tr>
<tr>
<td>-8. DON’T KNOW</td>
<td></td>
</tr>
</tbody>
</table>

[READ INTRO “Whether or not you use it, does your home have …” AND FILL IN BLANK WITH ITEM IN HE-12.4]

**HE-12.5** [Whether or not you use them, does your home have...] handrails in any of the hallways?

<table>
<thead>
<tr>
<th>RAILIHOM</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. YES</td>
<td>[GO TO HE-12.5a]</td>
</tr>
<tr>
<td>2. NO</td>
<td>[GO TO HE-12.6]</td>
</tr>
<tr>
<td>-7. REFUSED</td>
<td></td>
</tr>
<tr>
<td>-8. DON’T KNOW</td>
<td></td>
</tr>
</tbody>
</table>

**HE-12.5a** Were these rails there when you moved in or were any of them added?

<table>
<thead>
<tr>
<th>RAILIADD</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. THERE WHEN MOVED IN</td>
<td></td>
</tr>
<tr>
<td>2. ADDED (OR UPGRADED)</td>
<td></td>
</tr>
<tr>
<td>-7. REFUSED</td>
<td></td>
</tr>
<tr>
<td>-8. DON’T KNOW</td>
<td></td>
</tr>
</tbody>
</table>

**HE-12.5b** In the last 30 days, when you went down the hallway, did you use the handrails ...

<table>
<thead>
<tr>
<th>RAILI30</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. every time</td>
<td></td>
</tr>
<tr>
<td>2. most times</td>
<td></td>
</tr>
<tr>
<td>3. sometimes</td>
<td></td>
</tr>
<tr>
<td>4. rarely, or</td>
<td></td>
</tr>
<tr>
<td>5. never?</td>
<td></td>
</tr>
<tr>
<td>-7. REFUSED</td>
<td></td>
</tr>
<tr>
<td>-8. DON’T KNOW</td>
<td></td>
</tr>
</tbody>
</table>

[READ INTRO “Whether or not you have used it, does your home have …” AND FILL IN BLANK WITH ITEM IN HE-12.6]
**HE-12.6** [Whether or not you have used it, does your home have...] **an emergency call or personal response system to help if you fall?**

**EMERHOME**
1. YES (1) [GO TO HE-12.6a]
2. NO (2)
   - 7. REFUSED
   - 8. DON’T KNOW

### DEFINITION (IF NEEDED):
This is a system you use to call someone to come if you fall or need help. You can wear it around your neck or it can be attached to the wall.

**HE-12.6a** Was this system there when you moved in or was it added?

**EMERADD**
1. THERE WHEN MOVED IN
2. ADDED (OR UPGRADED)
   - 7. REFUSED
   - 8. DON’T KNOW

**HE-12.6b** In the last 30 days, have you used this system to call for help?

**EMER30**
1. YES
2. NO
   - 7. REFUSED
   - 8. DON’T KNOW

---

**HE-13** Whether or not you use it, does your home have...

**HE-13.1** a stall shower separate from a tub?

**SHOWBATH**
1. YES [GO TO HE-13.1b]
2. NO
   - 7. REFUSED
   - 8. DON’T KNOW

**HE-13.1b** In the last 30 days, when you bathed or showered, did you use the stall shower ...

**SHOW30**
1. every time
2. most times
3. sometimes
4. rarely, or
5. never?
   - 7. REFUSED
   - 8. DON’T KNOW
<table>
<thead>
<tr>
<th>HE-13.2 Whether or not you use them, does your home have any grab bars in the shower or tub area?</th>
</tr>
</thead>
<tbody>
<tr>
<td>BARBATH</td>
</tr>
<tr>
<td>1. YES [GO TO HE-13.2a]</td>
</tr>
<tr>
<td>2. NO</td>
</tr>
<tr>
<td>-7. REFUSED [GO TO HE-13.3]</td>
</tr>
<tr>
<td>-8. DON’T KNOW</td>
</tr>
</tbody>
</table>

**DEFINITION (IF NEEDED):**
A grab bar is designed to help you steady yourself. It may be attached to the wall or built in to the tub or shower. Do not include.

<table>
<thead>
<tr>
<th>HE-13.2a Were these grab bars there when you moved in or were any of them added?</th>
</tr>
</thead>
<tbody>
<tr>
<td>BARADD</td>
</tr>
<tr>
<td>1. THERE WHEN MOVED IN</td>
</tr>
<tr>
<td>2. ADDED (OR UPGRADED)</td>
</tr>
<tr>
<td>-7. REFUSED</td>
</tr>
<tr>
<td>-8. DON’T KNOW</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HE-13.2b In the last 30 days, when you bathed or showered, did you use the grab bars ...</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAR30</td>
</tr>
<tr>
<td>1. every time</td>
</tr>
<tr>
<td>2. most times</td>
</tr>
<tr>
<td>3. sometimes</td>
</tr>
<tr>
<td>4. rarely, or</td>
</tr>
<tr>
<td>5. never?</td>
</tr>
<tr>
<td>-7. REFUSED</td>
</tr>
<tr>
<td>-8. DON’T KNOW</td>
</tr>
</tbody>
</table>

[READ INTRO “Whether or not you use it, does your home have…” AND FILL IN BLANK WITH ITEM IN HE-13.3]

<table>
<thead>
<tr>
<th>HE-13.3 [Whether or not you use it, does your home have...] a seat for the shower or tub?</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEATBATH</td>
</tr>
<tr>
<td>1. YES [GO TO HE-13.3a]</td>
</tr>
<tr>
<td>2. NO</td>
</tr>
<tr>
<td>-7. REFUSED [GO TO HE-13.4]</td>
</tr>
<tr>
<td>-8. DON’T KNOW</td>
</tr>
</tbody>
</table>

**DEFINITION (IF NEEDED):**
This includes a chair, bench, or stool that you put in the shower or tub, or a seat that is built in.

<table>
<thead>
<tr>
<th>HE-13.3a Was this seat there when you moved in or was it added?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. THERE WHEN MOVED IN</td>
</tr>
<tr>
<td>2. ADDED (OR UPGRADED)</td>
</tr>
<tr>
<td>-7. REFUSED</td>
</tr>
<tr>
<td>-8. DON’T KNOW</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HE-13.3b In the last 30 days, when you bathed or showered, did you use the seat...</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEAT30</td>
</tr>
<tr>
<td>1. every time</td>
</tr>
<tr>
<td>2. most times</td>
</tr>
<tr>
<td>3. sometimes</td>
</tr>
<tr>
<td>4. rarely, or</td>
</tr>
<tr>
<td>5. never?</td>
</tr>
<tr>
<td>-7. REFUSED</td>
</tr>
<tr>
<td>-8. DON’T KNOW</td>
</tr>
</tbody>
</table>

[READ INTRO “Whether or not you use it, does your home have...” AND FILL IN BLANK WITH ITEM IN HE-13.4]

<table>
<thead>
<tr>
<th>HE-13.4 [Whether or not you use it, does your home have...] a handheld showerhead?</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXTDBATH</td>
</tr>
<tr>
<td>1. YES</td>
</tr>
<tr>
<td>2. NO</td>
</tr>
<tr>
<td>-7. REFUSED</td>
</tr>
<tr>
<td>-8. DON’T KNOW</td>
</tr>
</tbody>
</table>
**HE-14.1** [Whether or not you use them, does your home have...] **grab bars around any of the toilets?**

<table>
<thead>
<tr>
<th>TOILBAR</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. YES</td>
<td>[GO TO HE-14.1a]</td>
</tr>
<tr>
<td>2. NO</td>
<td>[GO TO HE-14.2]</td>
</tr>
<tr>
<td>-7. REFUSED</td>
<td></td>
</tr>
<tr>
<td>-8. DON'T KNOW</td>
<td></td>
</tr>
</tbody>
</table>

**DEFINITION (IF NEEDED):**
A grab bar is designed to help you steady yourself. It may be attached to the wall or part of a frame that goes over the toilet. Do not include towel racks.

**HE-14.1a** Were these grab bars there when you moved in or were any of them added?

<table>
<thead>
<tr>
<th>TOILADD</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. THERE WHEN MOVED IN</td>
<td></td>
</tr>
<tr>
<td>2. ADDED (OR UPGRADED)</td>
<td></td>
</tr>
<tr>
<td>-7. REFUSED</td>
<td></td>
</tr>
<tr>
<td>-8. DON'T KNOW</td>
<td></td>
</tr>
</tbody>
</table>

**HE-14.1b In the last 30 days, when you used the toilet, did you use the grab bars...**

<table>
<thead>
<tr>
<th>TOIL30</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. every time</td>
<td></td>
</tr>
<tr>
<td>2. most times</td>
<td></td>
</tr>
<tr>
<td>3. sometimes</td>
<td></td>
</tr>
<tr>
<td>4. rarely, or</td>
<td></td>
</tr>
<tr>
<td>5. never?</td>
<td></td>
</tr>
<tr>
<td>-7. REFUSED</td>
<td></td>
</tr>
<tr>
<td>-8. DON'T KNOW</td>
<td></td>
</tr>
</tbody>
</table>

**HE-14.2** [Does your home have...] a **raised or modified toilet seat?**

<table>
<thead>
<tr>
<th>MODSEAT</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. YES</td>
<td>[GO TO HE-14.2a]</td>
</tr>
<tr>
<td>2. NO</td>
<td>[GO TO HE-15-INTRO]</td>
</tr>
<tr>
<td>-7. REFUSED</td>
<td></td>
</tr>
<tr>
<td>-8. DON'T KNOW</td>
<td></td>
</tr>
</tbody>
</table>

**DEFINITION (IF NEEDED):**
This includes a seat that is up higher than usual, either because the toilet or seat is raised, or a chair that fits over the toilet. Do not include portable urinals, commodes.

**HE-14.2a** Was the raised or modified seat there when you moved in or was it added?

<table>
<thead>
<tr>
<th>TOILADD</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. THERE WHEN MOVED IN</td>
<td></td>
</tr>
<tr>
<td>2. ADDED (OR UPGRADED)</td>
<td></td>
</tr>
<tr>
<td>-7. REFUSED</td>
<td></td>
</tr>
<tr>
<td>-8. DON'T KNOW</td>
<td></td>
</tr>
</tbody>
</table>

**CATI SKIP INSTRUCTIONS**

IF (HE-10.2a = 2 OR HE-10.3a = 2 OR HE-12.2a = 2 OR HE-12.3a = 2 OR HE-12.4a = 2 OR HE-12.5a = 2 OR HE-12.6a = 2 OR HE-13.2a = 2 OR HE-13.3a = 2 OR HE-14.1a = 2 OR HE-14.2a = 2)

THEN GO TO HE-15-INTRO

ELSE GO TO MO-1
HE-15-INTRO. The next questions are about the following items that you told me were added: the...

HE-15-INTRO CATI FILL INSTRUCTIONS

IF (HE-10.2a = 2) THEN display “handrail leading to the entrance”
IF (HE-10.3a = 2) THEN display “ramp”
IF (HE-12.2a = 2) THEN display “elevator”
IF (HE-12.3a = 2) THEN display “chair life or stair glide”
IF (HE-12.4a = 2) THEN display “handrail in the staircase”
IF (HE-12.5a = 2) THEN display “handrail in the hallway”
IF (HE-12.6a = 2) THEN display “emergency call system”
IF (HE-13.2a = 2) THEN display “grab bars in the shower or tub”
IF (HE-13.3a = 2) THEN display “seat for the shower or tub”
IF (HE-14.1a = 2) THEN display “grab bars around the toilet”
IF (HE-14.2a = 2) THEN display “raised or modified toilet seat”

HE-15 and HE-19 CATI FILL INSTRUCTIONS

IF there is more than one fill, THEN display ‘these” in HE-15 and HE-19
ELSE display “this” in HE-15 and HE-19

HE-15. Did you or your family pay any of the cost of adding {this/these}?  
FEATFAMI
1. YES  [GO TO HE-16]
2. NO
-7. REFUSED  [GO TO HE-19]
-8. DON’T KNOW

HE-16. About how much did you and your family pay altogether?  Was it ...

FEATCOST
1. more than $500,  [GO TO HE-17]
2. less than $500, or  [GO TO HE-18]
3. just about $500?  
-7. REFUSED  [GO TO HE-19]
-8. DON’T KNOW

HE-17. Was it ...

FEATTHOU
1. more than $1000,  [GO TO HE-19]
2. less than $1000, or  
3. just about $1000?  
-7. REFUSED  [GO TO HE-19]
-8. DON’T KNOW

HE-18. Was it ...

FEAT100
1. more than $100,  
2. less than $100, or  
3. just about $100?  
-7. REFUSED  
-8. DON’T KNOW
MOBILITY AND OTHER DEVICES MODULE

The next questions are about getting around both outside and inside your home.

MO-1. In the last 30 days, have you used a cane, walker, wheelchair, or scooter, yes or no?

USECANE
1. YES [GO TO MO-2]
2. NO [GO TO MO-2.5]
-7. REFUSED [GO TO MO-2]
-8. DON'T KNOW [GO TO MO-2]

MO-2 CATI FILL INSTRUCTIONS

IF (HE-1=1) THEN display “home or building” in MO-2.1b, MO-2.2b, MO-2.3b, MO-2.4b and “building” in MO-2.1c, MO-2.2c, MO-2.3c, and MO-2.4c
ELSE IF (HE-1=2, -7, or -8) THEN display “home” in MO-2.1b, MO-2.2b, MO-2.3b, MO-2.4b, MO-2.1c, MO-2.2c, MO-2.3c, and MO-2.4c

IF (MO-1=1) THEN display “Okay, I'd like to ask you a few more questions about these items.”

CATI SKIP INSTRUCTIONS

IF (HE-2= 5) THEN do not ask MO-2.1c, MO-2.2c, MO-2.3c, MO-2.4c, and MO-2.5
**MO-2.** In the last 30 days, did you use …

### MO-2.1  a cane?

**CANEUSE**

1. YES  [GO TO MO-2.1a]
2. NO
-7. REFUSED  [GO TO MO-2.2]
-8. DON’T KNOW

**DEFINITION (IF NEEDED):**
Include here straight canes, walking sticks, and multi-pronged canes. Do not include white canes to help you walk if you are blind, since we’ll ask about vision aids like that later.

### MO-2.1a  In the last 30 days, when you got out of a bed or chair, how often did you use your cane to help? Would you say …

**CANEBED**

1. every time
2. most times
3. sometimes
4. rarely, or
5. never?
-7. REFUSED
-8. DON’T KNOW

### MO-2.1b In the last 30 days, when you walked around inside your {home/ home or building}, how often did you use your cane?

**CANEWALK**

1. every time
2. most times
3. sometimes
4. rarely, or
5. never?
-7. REFUSED
-8. DON’T KNOW

### MO-2.1c In the last 30 days, when you left your {home/ building} how often did you use your cane?

**CANEOUT**

1. every time
2. most times
3. sometimes
4. rarely, or
5. never?
-7. REFUSED
-8. DON’T KNOW

[READ INTRO “In the last 30 days, did you use …” AND FILL IN BLANK WITH ITEM IN MO-2.2]

### MO-2.2 [In the last 30 days, did you use] a walker?

**WALKUSE**

1. YES  [GO TO MO-2.2a]
2. NO
-7. REFUSED  [GO TO MO-2.3]
-8. DON’T KNOW

### MO-2.2a In the last 30 days, when you got out of a bed or chair, how often did you use your walker to help? Would you say …

**WALKBED**

1. every time
2. most times
3. sometimes
4. rarely, or
5. never?
-7. REFUSED
-8. DON’T KNOW

### MO-2.2b In the last 30 days, when you walked around inside your {home/ home or building}, how often did you use your walker?

**WALKWALK**

1. every time
2. most times
3. sometimes
4. rarely, or
5. never?
-7. REFUSED
-8. DON’T KNOW

### MO-2.2c In the last 30 days, when you left your {home/ building} how often did you use your walker?

**WALKOUT**

1. every time
2. most times
3. sometimes
4. rarely, or
5. never?
-7. REFUSED
-8. DON’T KNOW

[READ INTRO “In the last 30 days, did you use …” AND FILL IN BLANK WITH ITEM IN MO-2.3]
### MO-2.3 [In the last 30 days, did you use] a wheelchair?

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. YES</td>
<td>[GO TO MO-2.3 a]</td>
</tr>
<tr>
<td>2. NO</td>
<td>[GO TO MO-2.4]</td>
</tr>
<tr>
<td>7. REFUSED</td>
<td></td>
</tr>
<tr>
<td>8. DON’T KNOW</td>
<td></td>
</tr>
</tbody>
</table>

**MO-2.3a** In the last 30 days, when you got out of a bed or chair, how often did you use your wheelchair to help? Would you say …

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. every time</td>
<td></td>
</tr>
<tr>
<td>2. most times</td>
<td></td>
</tr>
<tr>
<td>3. sometimes</td>
<td></td>
</tr>
<tr>
<td>4. rarely, or</td>
<td></td>
</tr>
<tr>
<td>5. never</td>
<td></td>
</tr>
<tr>
<td>7. REFUSED</td>
<td></td>
</tr>
<tr>
<td>8. DON’T KNOW</td>
<td></td>
</tr>
</tbody>
</table>

### MO-2.4 [In the last 30 days, did you use] a scooter?

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. YES</td>
<td>[GO TO MO-2.4a]</td>
</tr>
<tr>
<td>2. NO</td>
<td>[GO TO MO-2.5]</td>
</tr>
<tr>
<td>7. REFUSED</td>
<td></td>
</tr>
<tr>
<td>8. DON’T KNOW</td>
<td></td>
</tr>
</tbody>
</table>

**MO-2.4a** Do you own or rent this scooter?

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. YES</td>
<td>[GO TO MO-2.4b]</td>
</tr>
<tr>
<td>2. NO</td>
<td>[GO TO MO-2.5]</td>
</tr>
<tr>
<td>7. REFUSED</td>
<td></td>
</tr>
<tr>
<td>8. DON’T KNOW</td>
<td></td>
</tr>
</tbody>
</table>

**MO-2.4b** In the last 30 days, when you went around inside your {home/ home or building}, how often did you use your scooter? Would you say …

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. every time</td>
<td></td>
</tr>
<tr>
<td>2. most times</td>
<td></td>
</tr>
<tr>
<td>3. sometimes</td>
<td></td>
</tr>
<tr>
<td>4. rarely, or</td>
<td></td>
</tr>
<tr>
<td>5. never</td>
<td></td>
</tr>
<tr>
<td>7. REFUSED</td>
<td></td>
</tr>
<tr>
<td>8. DON’T KNOW</td>
<td></td>
</tr>
</tbody>
</table>

### MO-2.5 [In the last 30 days, have you used] a motorized cart or electric scooter at the store?

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. YES</td>
<td></td>
</tr>
<tr>
<td>2. NO</td>
<td></td>
</tr>
<tr>
<td>7. REFUSED</td>
<td></td>
</tr>
<tr>
<td>8. DON’T KNOW</td>
<td></td>
</tr>
</tbody>
</table>
MO-3. The next questions are about some other items that you may use to make your daily activities easier, safer, or so that you can do them on your own. In the last 30 days, have you used …

<table>
<thead>
<tr>
<th>Question</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>MO-3.1 a hearing aid or other hearing device? HEARAID</td>
<td>1. YES  2. NO -7. REFUSED -8. DON'T KNOW</td>
</tr>
<tr>
<td>MO-3.2 [In the last 30 days, have you used …] glasses or contacts? GLASSES</td>
<td>1. YES  2. NO -7. REFUSED -8. DON'T KNOW</td>
</tr>
<tr>
<td>MO-3.3 [In the last 30 days, have you used …] vision aids other than glasses? VISION</td>
<td>1. YES  2. NO -7. REFUSED -8. DON'T KNOW</td>
</tr>
<tr>
<td><strong>DEFINITION (IF NEEDED):</strong> Vision aids include things like a magnifying glass or a white cane to used by people with visual impairments to help them walk.</td>
<td></td>
</tr>
<tr>
<td>MO-3.4 [In the last 30 days, have you used …] a reacher or grabber? REACHER</td>
<td>1. YES  2. NO -7. REFUSED -8. DON'T KNOW</td>
</tr>
<tr>
<td><strong>DEFINITION (IF NEEDED):</strong> A reacher or grabber is used to help reach or grasp objects.</td>
<td></td>
</tr>
<tr>
<td>MO-3.5 [In the last 30 days, have you used …] a special bed or chair to sleep in? SPECBED</td>
<td>1. YES  2. NO -7. REFUSED -8. DON'T KNOW</td>
</tr>
<tr>
<td>MO-3.6 [In the last 30 days, have you used …] a trapeze, lift, or sling to get in and out of bed? TRAPUSE</td>
<td>1. YES  2. NO -7. REFUSED -8. DON'T KNOW</td>
</tr>
<tr>
<td><strong>DEFINITION (IF NEEDED):</strong> A trapeze is a bar that hangs over the head of the bed that allows a person to pull up from a resting position. A lift is a machine that transfers and a sling is material that supports a person being lifted out of bed.</td>
<td></td>
</tr>
<tr>
<td>MO-3.7 [In the last 30 days, have you used …] a raising seat or lift chair to help you in and out of chairs? LIFTUSE</td>
<td>1. YES  2. NO -7. REFUSED -8. DON'T KNOW</td>
</tr>
<tr>
<td><strong>DEFINITION (IF NEEDED):</strong> Raising seats and lift chairs lift up and tilt forward, so a person can stand more easily and lower themselves into a seated position</td>
<td></td>
</tr>
<tr>
<td>MO-3.8 [In the last 30 days, have you used …] a portable urinal or commode, bedpan, or disposable pads? PORTCOMM</td>
<td>1. YES  2. NO -7. REFUSED -8. DON'T KNOW</td>
</tr>
</tbody>
</table>
### MO-3.9 [In the last 30 days, have you used …] a modified washer or dryer?

**MODWASH**

1. YES 2. NO -7. REFUSED -8. DON’T KNOW

**DEFINITION (IF NEEDED):**
This is a washer or dryer that has been changed to make it easier to load clothes or turn on and off.

### MO-3.10 [In the last 30 days, have you used …] adapted utensils or adapted appliances for cooking?

**MODCOOK**

1. YES 2. NO -7. REFUSED -8. DON’T KNOW

**DEFINITION (IF NEEDED):**
Adapted utensils include things like easy-to-grip silverware, knives that rock, and plates with high sides. Adapted appliances include things like can openers that can be used with one hand and easy to grip pots and pans.

---

The next questions are about how you get to and from places.

---

**CATI SKIP INSTRUCTIONS**

IF (HE-2= 5) THEN GO TO MO-5-INTRO

---

### MO-4.1 In the last 30 days, did you drive yourself places in a car, truck, or van?

**DRIVECAR**

1. YES [GO TO MO 4.2a]
2. NO

-7. REFUSED
-8. DON’T KNOW [GO TO MO-4.3]

---

### MO-4.2 Does the vehicle that you drove most often have …

#### MO-4.2a a ramp or lift?

**CARRAMP**

1. YES 2. NO -7. REFUSED -8. DON’T KNOW

---

#### MO-4.2b [Does the vehicle that you drove most often have …] hand controls, pedal extenders, or a steering adaptation?

**CARCONTR**

1. YES 2. NO -7. REFUSED -8. DON’T KNOW

---

### MO-4.3 In the last 30 days, did you use a paratransit service or transportation for people with disabilities?

**SERVUSE**

1. YES
2. NO
-7. REFUSED
-8. DON’T KNOW

**DEFINITION (IF NEEDED):**
Paratransit is a flexible form of transportation, especially for people with disabilities or senior citizens.
MO-5-INTRO. You told me that in the last 30 days you have used a:

**MO-5-INTRO CATI FILL INSTRUCTIONS**

- IF (MO-2.1 =1) THEN display ‘cane’
- IF (MO-2.2 =1) THEN display ‘walker’
- IF (MO-2.3 =1) THEN display ‘wheelchair’
- IF (MO-2.4 =1) AND (MO-2.4a =1) THEN display ‘scooter’
- IF (MO-3.1 =1) THEN display ‘hearing aid’
- IF (MO-3.3 =1) THEN display ‘vision aid other than glasses’
- IF (MO-3.4 =1) THEN display ‘reacher or grabber’
- IF (MO-3.5 =1) THEN display ‘special bed or chair’
- IF (MO-3.6 =1) THEN display ‘trapeze, lift, or sling to get in and out of bed’
- IF (MO-3.7 =1) THEN display ‘raising seat or lift chair to get in and out of chairs’
- IF (MO-3.8 =1) THEN display ‘portable urinal, commode, bedpan, or disposable pads’
- IF (MO-3.9 =1) THEN display ‘modified washer or dryer’
- IF (MO-3.10 =1) THEN display ‘adapted utensils or adapted appliances for cooking’
- IF (MO-4.2a =1 OR MO-4.2b =1) THEN display ‘adapted car’

**MO-5 and MO-9 CATI FILL INSTRUCTIONS**

- IF more than one fill, THEN display ‘these items” in MO-5 and MO-9
- ELSE display “this item” in MO-5 and MO-1

MO-5. Did you or your family pay any of the cost to buy or rent {this item/these items}?

**FAMPAY**

1. YES [GO TO MO-6]
2. NO
3. REFUSED [GO TO MO-9]
4. DON’T KNOW

**MO-6. About how much did you and your family pay altogether? Was it ...**

**FAM500**

1. more than $250, [GO TO MO-7]
2. less than $250, or [GO TO MO-8]
3. just about $250?
4. REFUSED [GO TO MO-9]
5. DON’T KNOW
FAM1000
1. more than $500,  
2. less than $500, or  
3. just about $500?  
-7. REFUSED  
-8. DON’T KNOW

[GO TO MO-9]

MO-8. Was it …
FAM100
1. more than $100,  
2. less than $100, or  
3. just about $100?  
-7. REFUSED  
-8. DON’T KNOW

MO-9. Did your health insurance or any other program pay any of the cost of {this item/these items}?  
INSPAY
1. YES  
2. NO  
-7. REFUSED  
-8. DON’T KNOW

EFFECTIVENESS/ PARTICIPATION MODULE

NOTE TO USER
The Effectiveness/Participation Module (EF) requires items from the Home Environment (HE) and Mobility and Other Technologies (MO) Modules

CATI SKIP INSTRUCTIONS
IF (HE 10.3b =1,2,3 or 4) OR (HE-12.2b =1,2,3 or 4) OR (HE-12.3b =1,2,3, or 4) OR (HE-12.4b =1,2,3 or 4) OR (HE-12.5b =1,2,3,or 4) OR (HE-12.6 = 1) OR (HE-13.2b =1,2,3 or 4) OR (HE-13.3b =1,2,3 or 4) OR (HE-14.1b =1,2,3 or 4) OR (HE-14.2 = 1) OR (MO-2.1 =1) OR (MO-2.2 =1) OR (MO-2.3 =1) OR (MO-2.4 =1) OR (MO-2.5 =1) OR (MO-3.1 =1) OR (MO-3.3 =1) OR (MO-3.4 =1) OR (MO-3.5 =1) OR (MO-3.6 =1) OR (MO-3.7 =1) OR (MO-3.8 =1) OR (MO-3.9 =1) OR (MO-3.10 =1) OR (MO-4.2a =1) OR (MO-4.2b =1) THEN GO TO EF-INTRO  
ELSE GO TO CO-1

EF-INTRO.
Now think about the following items that you have used in the last 30 days. The _______. The next questions are about how much using {this item/these items} has affected your life.
EF-INTRO CATI FILL INSTRUCTIONS

Fill blank with one or more phrases as follows:

IF (HE10.3b =1,2,3 or 4) THEN display “ramp”
IF (HE12.2 =1,2,3 or 4) THEN display “elevator”
IF (HE12.3b =1,2,3, or 4) THEN display “chair lift or stair glide”
IF (HE12.4b =1,2,3 or 4) THEN display “handrails in the staircases”
IF (HE12.5b =1,2,3, or 4) THEN display “handrails in the hallway”
IF (HE-12.6=1) THEN display “emergency call system”
IF (HE13.2b =1, 2, 3 or 4) THEN display “grab bars in the shower or tub”
IF (HE13.3b =1 2, 3 or 4) THEN display “seat for the shower or tub”
IF (HE14.1b =1, 2,3 or 4) THEN display “grab bars around the toilet”
IF (HE-14.2 =1) THEN display “raised or modified toilet seat”
IF (MO-2.1 =1) THEN display “cane”
IF (MO-2.2 =1) THEN display “walker”
IF (MO-2.3 =1) THEN display “wheelchair”
IF (MO-2.4=1) THEN display “scooter”
IF (MO-2.5 =1) THEN display “electric cart”
IF (MO-3.1 =1) THEN display “hearing aid”
IF (MO-3.3 =1) THEN display “vision aids other than glasses”
IF (MO-3.4 =1) THEN display “reacher or grabber”
IF (MO-3.5 =1) THEN display “special bed or chair”
IF (MO-3.6 =1) THEN display “trapeze, lift, or sling to get in and out of bed”
IF (MO-3.7 =1) THEN display “raising seat or lift chair to get in and out of chairs”
IF (MO-3.8 =1) THEN display “portable urinal, commode, bedpan, or disposable pads”
IF (MO-3.9 =1) THEN display “modified washer or dryer”
IF (MO-3.10 =1) THEN display “adapted utensils or adapted appliances for cooking”
IF (MO-4.2a =1) OR (MO-4.2b =1) THEN display “adapted car”

EF-INTRO, EF-1, EF-2, EF-3 CATI FILL INSTRUCTIONS

IF more than one fill, THEN display “these items” in EF-INTRO, EF-1, EF-2, and EF-3
ELSE display “this item” in EF-INTRO, EF-1, EF-2, and EF-3

**EF-1.** Because you use {this item/these items}, how much safer do you feel when you do your daily activities? Would you say…

**MORESAFE**
1. no more,
2. a little more, or
3. a lot more
4. DOES NOT APPLY
-7. REFUSED
-8. DON’T KNOW

**EF-2.** Because you use {this item/these items}, how much more control do you have over your daily activities? Would you say…

**MORECTRL**
1. no more,
2. a little more, or
3. a lot more
4. DOES NOT APPLY
-7. REFUSED
-8. DON’T KNOW
EF-3. Because you use {this item/these items}, how much more often do you take part in activities you enjoy? Would you say...

MOREENJO
1. no more,
2. a little more, or
3. a lot more
4. DOES NOT APPLY
-7. REFUSED
-8. DON’T KNOW

COMMUNICATION TECHNOLOGY MODULE

CO-1. The next questions are about computers and telephones. In the last 30 days, have you used a computer?

USECOMPT
1. YES  [GO TO CO- 2]
2. NO
-7. REFUSED
-8. DON’T KNOW

CO-2. Did any of the computers that you used have...

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
<th>Refused</th>
<th>Don’t Know</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO-2.1 an extra large keyboard, buttons, or letters? COMKEY</td>
<td>1.</td>
<td>2</td>
<td>7-8</td>
<td>8</td>
</tr>
<tr>
<td>CO-2.2 an on screen keyboard or touch screen? COMSCRN</td>
<td>1.</td>
<td>2</td>
<td>7-8</td>
<td>8</td>
</tr>
<tr>
<td>DEFINITION (IF NEEDED): A touch screen allows you to interact with the computer by touching pictures or words on the screen.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO-2.3 something other than a mouse to point at the screen? COMPOINT</td>
<td>1.</td>
<td>2</td>
<td>7-8</td>
<td>8</td>
</tr>
<tr>
<td>DEFINITION (IF NEEDED): This might include, for example, a track ball, or hands-free device.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO-2.4 screen magnifier or software to enlarge objects on the screen? COMMAGN</td>
<td>1.</td>
<td>2</td>
<td>7-8</td>
<td>8</td>
</tr>
<tr>
<td>DEFINITION (IF NEEDED): A screen magnifier makes what is on the computer screen bigger so it is easier to see.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CO-3. In the last 30 days, did you use a computer for...

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
<th>Refused</th>
<th>Don’t Know</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO-3.1 banking or managing household finances? COMBACK</td>
<td>1.</td>
<td>2</td>
<td>7-8</td>
<td>8</td>
</tr>
</tbody>
</table>
### CO-3.2 ordering prescriptions?
**COMRX**
1. YES  2. NO  -7. REFUSED  -8. DON’T KNOW

### CO-3.3 shopping for groceries?
**COMGROC**
1. YES  2. NO  -7. REFUSED  -8. DON’T KNOW

### CO-3.4 shopping for things other than prescriptions and groceries?
**COMSHOP**
1. YES  2. NO  -7. REFUSED  -8. DON’T KNOW

### CO-3.5 looking up health-related information?
**COMHLTH**
1. YES  2. NO  -7. REFUSED  -8. DON’T KNOW

### CO-4. Do you have a cell phone?
**CELLPHON**
- DEFINITION (IF NEEDED):
  A cell phone, or mobile phone, can be used anywhere, for example, far away from the house or in a car.

1. YES
2. NO
-7. REFUSED
-8. DON’T KNOW

### CO-5. Did you get or change any of the telephones in your house so that you can make calls more easily or on your own?
**MODPHONE**
1. YES  [GO TO CO-6]
2. NO   [GO TO CO-7]
-7. REFUSED  [GO TO CO-7]
-8. DON’T KNOW  [GO TO CO-7]

### CO-6. Do any of your telephones have …

<table>
<thead>
<tr>
<th>Question</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CO-6.1 large buttons?</strong></td>
<td>1. YES  2. NO  -7. REFUSED  -8. DON’T KNOW</td>
</tr>
<tr>
<td><strong>PHONBUTN</strong></td>
<td></td>
</tr>
<tr>
<td><strong>CO-6.2 an amplifier or speaker phone?</strong></td>
<td>1. YES  2. NO  -7. REFUSED  -8. DON’T KNOW</td>
</tr>
<tr>
<td><strong>PHONAMP</strong></td>
<td></td>
</tr>
<tr>
<td><strong>CO-6.3 TTY or text display device?</strong></td>
<td>1. YES  2. NO  -7. REFUSED  -8. DON’T KNOW</td>
</tr>
<tr>
<td><strong>PHONTTY</strong></td>
<td></td>
</tr>
<tr>
<td><strong>DEFINITION (IF NEEDED):</strong> TTY, or teletypewriter, allows the user to type messages to send over the telephone. TDD, or text display device, shows on a screen what is being said on the other end of the telephone.</td>
<td></td>
</tr>
<tr>
<td><strong>CO-6.4 a flashing ringer?</strong></td>
<td>1. YES  2. NO  -7. REFUSED  -8. DON’T KNOW</td>
</tr>
<tr>
<td><strong>PHONRING</strong></td>
<td></td>
</tr>
</tbody>
</table>
**CO-6.5 voice activation/speech recognition?**

**PHONSPCH**

1. YES  2. NO  -7. REFUSED  -8. DON’T KNOW

**DEFINITION (IF NEEDED):**
Voice activation/speech recognition lets the telephone respond to your voice, for example, by dialing a number that you say out loud.

---

**CO-7. In the last 30 days, did you use your telephone for:**

| **CO-7.1 Banking or managing household finances?** | 1. YES  2. NO  -7. REFUSED  -8. DON’T KNOW |
| PHONBANK |
| **CO-7.2 Ordering prescriptions?** | 1. YES  2. NO  -7. REFUSED  -8. DON’T KNOW |
| PHONRX |
| **CO-7.3 Shopping for groceries?** | 1. YES  2. NO  -7. REFUSED  -8. DON’T KNOW |
| PHONGROC |
| **CO-7.4 Shopping for things other than prescriptions and groceries?** | 1. YES  2. NO  -7. REFUSED  -8. DON’T KNOW |
| PHONSHOP |

---

**RESIDUAL ADL AND IADL DIFFICULTY MODULE**

**NOTE TO USER**
The Residual ADL and IADL Difficulty Module (RD) requires items from the Home Environment (HE) and Mobility and Other Technologies (MO) Modules

The next questions are about how well you can do your daily activities on your own.

**RD-1 CATI FILL INSTRUCTIONS**

IF (MO-2.1a = 1,2,3, or 4) OR (MO-2.2a = 1,2,3, or 4) OR (MO-2.3a = 1,2,3, or 4) OR (MO-3.5 = 1) OR (MO-3.6 = 1) OR (MO-3.7 = 1) THEN display “Using your __________, how” and fill blank with one or more phrases as follows:

IF (MO-2.1a = 1,2,3, or 4) THEN display “cane”
IF (MO-2.2a = 1,2,3, or 4) THEN display “walker”
IF (MO-2.3a = 1,2,3, or 4) THEN display “wheelchair”
IF (MO-3.5 = 1) THEN display “special bed or chair”
IF (MO-3.6 = 1) THEN display “trapeze, lift, or sling”
IF (MO-3.7 = 1) THEN display “raising seat or lift chair”

ELSE display “How”
RD-1. {Using your ___ , how/How} much difficulty do you have getting out of a bed or chair by yourself? Would you say ...

**BEDDIFF**
1. none,  
2. some,  
3. a lot, or  
4. are you unable to do this by yourself ?  
5. NEVER DOES WITHOUT HELP  
-7. REFUSED  
-8. DON’T KNOW

**RD-2 CATI FILL INSTRUCTIONS**

IF (MO-2.1b=1,2,3, or 4) OR (MO-2.2b=1,2,3, or 4) OR (MO-2.3b=1,2,3, or 4) OR (MO-2.4b =1,2,3, or 4) OR (HE-12.2b=1,2,3, or 4) OR (HE-12.3b=1,2,3, or 4) OR (HE-12.4b=1,2,3, or 4) OR (HE-12.5b=1,2,3, or 4) THEN display: “Using your ________, how” and fill blank with one ore more phrases as follows:

- IF (MO-2.1b=1,2,3, or 4) THEN display “cane”  
- IF (MO-2.2b=1,2,3, or 4) THEN display “walker”  
- IF (MO-2.3b=1,2,3, or 4) THEN display “wheelchair”  
- IF (MO-2.4b =1,2,3, or 4) THEN display “scooter”  
- IF (HE-12.2b=1,2,3, or 4) THEN display “elevator”  
- IF (HE-12.3b=1,2,3, or 4) THEN display “chair lift or stair glide”  
- IF (HE-12.4b=1,2,3, or 4) THEN display “handrails in the staircases”  
- IF (HE-12.5b=1,2,3, or 4) THEN display “handrails in the hallway”

ELSE display “How”

RD-2 {Using your ___, how/How} much difficulty do you have getting around your {home/home or building} by yourself? Would you say ...

**HOMDIFF**
1. none,  
2. some,  
3. a lot, or  
4. are you unable to do this by yourself ?  
5. NEVER DOES WITHOUT HELP  
-7. REFUSED  
-8. DON’T KNOW

**RD-3 CATI FILL INSTRUCTIONS**

IF (MO-2.1c= 1,2,3, or 4) OR (MO-2.2c=1,2,3, or 4) OR (MO-2.3c=1,2,3, or 4) OR (MO-2.4c=1,2,3, or 4) OR (HE-5.3a=1,2,3, or 4) OR (HE-10.3b=1,2,3, or 4) THEN display “Using your ________, how” and fill blank with one ore more phrases as follows:

- IF (MO-2.1c=1,2,3, or 4) THEN display “cane”  
- IF (MO-2.2c=1,2,3, or 4) THEN display “walker”  
- IF (MO-2.3c=1,2,3, or 4) THEN display “wheelchair”  
- IF (MO-2.4c=1,2,3, or 4) THEN display “scooter”  
- IF (HE-5.3a=1,2,3, or 4) THEN display “ramp”  
- IF (HE-10.3b=1,2,3, or 4) THEN display “ramp”

ELSE display “How”
RD-3. {Using your ___, how/How} much difficulty do you have leaving your {home/building} by yourself? Would you say …

OUTDIFF
1. none,
2. some,
3. a lot, or
4. are you unable to do this by yourself?
5. NEVER DOES WITHOUT HELP
-7. REFUSED
-8. DON’T KNOW

RD-4 CATI FILL INSTRUCTIONS

IF (HE-13.2b=1,2,3, or 4) OR (HE-13.3b=1,2,3, or 4) THEN display “Using your ______, how” and fill blank with one or more phrases as follows:

IF HE-13.2b=1,2,3, or 4 THEN display “grab bars”
IF HE-13.3b=1,2,3, or 4 THEN display “shower or bath seat”
ELSE display “How”

RD-4. {Using your ___, how/How} much difficulty do you have showering or bathing by yourself? Would you say …

BTHDIFF
1. none,
2. some,
3. a lot, or
4. are you unable to do this by yourself?
5. NEVER DOES WITHOUT HELP
-7. REFUSED
-8. DON’T KNOW

RD-5 CATI FILL INSTRUCTIONS

IF (HE-14.1b= 1,2,3, or 4) OR (HE-14.2=1) THEN display “Using your _____, how” and fill blank with one or more phrases as follows:

IF HE-14.1b= 1,2,3, or 4 THEN display “grab bars around the toilet”
IF HE-14.2=1 THEN display “raised or modified toilet seat”
ELSE display “How”

RD-5. {Using your ___, how/How } much difficulty do you have using the toilet by yourself, including getting on and off? Would you say …

TOLDIFF
1. none,
2. some,
3. a lot, or
4. are you unable to do this by yourself?
5. NEVER DOES WITHOUT HELP
-7. REFUSED
-8. DON’T KNOW
RD-6.1a. In the last 30 days, did you prepare any meals?

**MEALPREP**
1. YES [GO TO RD-6.1b]
2. NO
3. REFUSED
4. DON’T KNOW

**RD-61b CATI FILL INSTRUCTIONS**

IF (MO-3.10=1) THEN display “Using your adapted utensils or adapted appliances, how”
ELSE display “How”

RD-6.1b. {Using your adapted utensils or adapted appliances, how/How} much difficulty do you have preparing meals by yourself? Would you say …

**MEALDIFF**
1. none,
2. some,
3. a lot, or
4. are you unable to do this by yourself?
5. NEVER DOES WITHOUT HELP
6. REFUSED
7. DON’T KNOW

RD-6.2a. In the last 30 days, did you shop for groceries?

**SHOPGROC**
1. YES [GO TO RD-6.2b]
2. NO
3. REFUSED
4. DON’T KNOW

**RD-6.2b CATI FILL INSTRUCTIONS**

IF (MO-2.1c=1,2,3, or 4) OR (MO-2.2c=1,2,3, or 4) OR (MO-2.3c=1,2,3, or 4) OR (MO-2.4c=1,2,3, or 4) OR (MO-2.5=1) OR (CO-3.3=1) OR (CO-7.3=1) THEN display “Using ____, how/How”

RD-6.2b. {Using ____, how/How} much difficulty do you have shopping for groceries by yourself? Would you say …

**SHOPDIFF**
1. none,
2. some,
3. a lot, or
4. are you unable to do this by yourself?
5. NEVER DOES WITHOUT HELP
6. REFUSED
7. DON’T KNOW

RD-6.3a In the last 30 days, did you spend any time managing your money, such as keeping track of expenses or paying bills?
1. YES  [GO TO RD-6.3b]
2. NO
   -7. REFUSED  [GO TO RD-6.4a]
   -8. DON’T KNOW

**RD-6.3b CATI FILL INSTRUCTIONS**

IF (MO-3.3=1) OR (CO-3.1=1) OR (CO-7.1=1) THEN display “Using your ___, how”, and fill blank with one or more phrases as follows:

IF (MO-3.3=1) THEN DISPLAY “vision aids other than glasses”
IF (CO-3.1=1) THEN DISPLAY “computer”
IF (CO-7.1=1) THEN DISPLAY “telephone”

ELSE display “How”
RD-6.3b. {Using your ____}, how/How much difficulty do you have managing your money by yourself?

**MNGDIFF**
1. none,
2. some,
3. a lot, or
4. are you unable to do this by yourself?
5. NEVER DOES WITHOUT HELP
-7. REFUSED
-8. DON’T KNOW

---

**CATI SKIP INSTRUCTIONS**

IF HE-2=5 then go to END
IF (MO-4.1=1) OR (MO-4.3=1) THEN GO TO 6.4b

---

RD-6.4a In the last 30 days, did you go places outside of walking distance?

**DISTOUT**
1. YES [GO TO RD-6.4b]
2. NO
-7. REFUSED
-8. DON’T KNOW

---

**RD-6.4b CATI FILL INSTRUCTIONS**

IF (MO-4.1=1) OR (MO-4.2a=1) OR (MO-4.2b=1) OR (MO-4.3=1) THEN display “Using your ____ how” and fill blank with one or more phrases as follows:

IF (MO-4.1=1 AND MO-4.2a ^=1 AND MO-4.2b ^=1) THEN display “car”
ELSE IF (MO-4.1=1 AND (MO-4.2a=1 OR MO-4.2b=1)) THEN display “adapted car”
ELSE IF (MO-4.3=1) THEN display “paratransit service”

---

RD-6.4b. {Using your ____}, how/How much difficulty do you have getting places outside of walking distance by yourself?

**DISTDIFF**
1. none,
2. some,
3. a lot, or
4. are you unable to do this by yourself?
5. NEVER DOES WITHOUT HELP
-7. REFUSED
-8. DON’T KNOW

---

**END**
DEVELOPMENT OF AN ASSISTIVE TECHNOLOGY AND ENVIRONMENTAL ASSESSMENT INSTRUMENT FOR NATIONAL SURVEYS: FINAL REPORT

Files Available for This Report

Part I: Recommended Modules and Instrument Development Process
HTML: http://aspe.hhs.gov/daltcp/reports/ATEAdevI.htm
PDF: http://aspe.hhs.gov/daltcp/reports/ATEAdevI.pdf

Also available separately:
Module A. Survey Modules to Measure Assistive Technology and the Home Environment: Recommended 8-10 Minute Modules

Module B. Survey Modules to Measure Assistive Technology and the Home Environment: Recommended 2-3 Minute Module
http://aspe.hhs.gov/daltcp/reports/ATEAdevI-B.pdf

Part II: Pilot Study Results for Recommended Items
HTML: http://aspe.hhs.gov/daltcp/reports/ATEAdevII.htm
PDF: http://aspe.hhs.gov/daltcp/reports/ATEAdevII.pdf

Also available separately:
Module A. Home Environment Module

Module B. Mobility and Other Devices Module
http://aspe.hhs.gov/daltcp/reports/ATEAdevII-B.pdf

Module C. Effectiveness/Participation Module
http://aspe.hhs.gov/daltcp/reports/ATEAdevII-C.pdf

Module D. Communication Technology Module
http://aspe.hhs.gov/daltcp/reports/ATEAdevII-D.pdf

Module E. Residual ADL and IADL Difficulty Module
http://aspe.hhs.gov/daltcp/reports/ATEAdevII-E.pdf

Appendix I. Crosswalk of Question Numbers from Pilot Test and Final Recommended Modules
http://aspe.hhs.gov/daltcp/reports/ATEAdevII-apI.pdf

Appendix II. Technology and Aging Pilot Survey: Instrument for the Pilot Study
http://aspe.hhs.gov/daltcp/reports/ATEAdevII-apII.pdf