Protocol ID: _____

Study Name: _____

Site: _____

Event Name: _____

Event Date: _____

Study Subject ID:_____

Interviewer Name:_____

Interview Date:_____

BLSA Visual Acuity - Ver. 1.0

Section Title: Stereopsis
Instructions:

Date Completed   ☐ Blank

Tester ID

STEREOPSIS:
"Now I will test your depth perception. You will wear these 3D glasses to pick out circles that appear closer to you. Put these glasses on" and WHEN APPROPRIATE: *"over the top of your reading glasses. Be careful with them - they break easily."*
"Please hold this book for me. I'm going to establish the distance from your eyes to the book. Keep the book at this distance from your eyes.." Use the 16-inch string attached to the book to establish a distance of 16 inches from the participant's forehead.

STEREOPSIS HOUSEFLY PRE-TEST:
"Please look at the right side of this booklet. What do you see?" (A housefly)
"What part of the fly seems to come out at you or be closer to you?" (The wings)

testing circles)
"Now look at these sets of 4 circles. Are the circles clear?" STEREOPSIS FLOWCHART: (show the participant the testing circles)
"Now look at these sets of 4 circles. Are the circles clear? " -Yes (clear) - No (not clear) =>Is the participant wearing glasses?

Line 1   ○ Left ○ Right ○ Top ○ Bottom   Click to deselect entry

Line 2   ○ Left ○ Right ○ Top ○ Bottom   Click to deselect entry

Line 3   ○ Left ○ Right ○ Top ○ Bottom   Click to deselect entry

Line 4   ◯ Left ◯ Right ◯ Top ◯ Bottom   Click to deselect entry

Line 5   ◯ Left ◯ Right ◯ Top ◯ Bottom   Click to deselect entry

Line 6   ◯ Left ◯ Right ◯ Top ◯ Bottom   Click to deselect entry

Line 7   ◯ Left ◯ Right ◯ Top ◯ Bottom   Click to deselect entry

Line 8   ◯ Left ◯ Right ◯ Top ◯ Bottom   Click to deselect entry

Line 9   ◯ Left ◯ Right ◯ Top ◯ Bottom   Click to deselect entry

Was steropsis test completed?   ◯ Yes ◯ No   Click to deselect entry

Reason not done   ◯ Physical problems   *If participant refused because cannot see correctly please mark "physical problems" instead
                                ◯ Cognitive problems
                                ◯ Physical and cognitive
                                ◯ Refused*
                                ◯ Technical problems

Did participant wear glasses?   ◯ Yes ◯ No   Click to deselect entry

Protocol ID: _____   Study Subject ID:_____

Study Name: _____   Interviewer Name:_____

Site: _____   Interview Date:_____

Event Name: _____

Event Date: _____

Section Title: Presenting Distance
Instructions:

MEASUREMENT OF PRESENTING DISTANCE VISUAL ACUITY

To measure distance visual acuity: Move the participant so that he/she is sitting 2 meters away from visual acuity chart (use tape markings on the floor as a guide). While wearing glasses or contacts as needed, using ONE eye at the same time (cover other eye with eye cover).

Start by testing the participant's RIGHT EYE. Ensure that the test chart #1 is being used. Cover the left eye while testing the right eye. *Ask the participant to read the smallest line they can comfortable read*. Ensure that the participant reads every letter possible on that line and on each line down the chart.

Stop the testing when the participant indicates that they can no longer see letters on the chart OR when they miss 3 or more letters on a line. When the test is completed, sum the total number of letters read for the entire chart.

Record the number of letters read correctly on each row, and assign a sum of 5 for the rows above the first line read. For example, if the participant can comfortably read letters on the third row of the chart, then start the testing on this row and move down. In this example, a row sum of 5 would be assigned to rows 1 and 2.

RIGHT EYE Number of letters read correctly (out of 5)

N ... C ... K ... Z ... O .. Row 1   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

R ... H ... S ... D ... K .. Row 2   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

D ... O ... V ... H ... R .. Row 3   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

C ... Z ... R ... H ... S .. Row 4   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

O ... N ... H ... R ... C .. Row 5   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

D ... K ... S ... N ... V .. Row 6   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

Z ... S ... O ... K ... N .. Row 7   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

C ... K ... D ... N ... R .. Row 8   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

S ... R ... Z ... K ... D .. Row 9   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

H ... Z ... O ... V ... C .. Row 10   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

N ... V ... D ... O ... K .. Row 11   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

V ... H ... C ... N ... O .. Row 12   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

S ... V ... H ... C ... Z .. Row 13   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

O ... Z ... D ... V ... K .. Row 14   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

How many TOTAL letters were read correctly with the RIGHT EYE?
(add up totals from each row)   (range 0-70)

Was distance ETDRS visual acuity ○ Yes ○ No   Click to deselect entry   Reason not done   ○ Physical problems
checked in the RIGHT EYE?   ○ Cognitive problems
                                                                                                                                          ○ Physical and cognitive
                                                                                                                                          ○ Refused*
                                                                                                                                          ○ Technical problems

NEXT, test the participant's LEFT EYE. Switch to test chart #2. Cover the right eye while testing the left eye. Ask the participant to read the smallest line they can comfortable read. Ensure that the participant reads every letter possible. Record the number of letters read correctly on each row, and assign a sum of 5 for the rows above the first line read. For example, if the participant can comfortably read letters on the third row of the chart, then start the testing on this row and move down. In this example, a row sum of 5 would be assigned to rows 1 and 2.
Stop the testing when the participant indicates that they can no longer see letters on the chart OR when they miss 3 or more letters on a line. When the test is completed, sum the total number of letters read for the entire chart.
LEFT EYE Number of letters read correctly (out of 5)

D ... S ... R ... K ... N .. Row 1   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

C ... K ... Z ... O ... H .. Row 2   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

O ... N ... R ... K ... D .. Row 3   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

K ... Z ... V ... D ... C .. Row 4   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

V ... S ... H ... Z ... O .. Row 5   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

H ... D ... K ... C ... R .. Row 6   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

C ... S ... R ... H ... N .. Row 7   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

S ... V ... Z ... D ... K .. Row 8   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

N ... C ... V ... O ... Z .. Row 9   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

R ... H ... S ... D ... V .. Row 10   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

S ... N ... R ... O ... H .. Row 11   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

O ... D ... H ... K ... R .. Row 12   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

Z ... K ... C ... S ... N .. Row 13   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

C ... R ... H ... D ... V .. Row 14   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

How many TOTAL letters were read correctly with the LEFT EYE?
(add up totals from each row)   (range 0-70)

Was distance ETDRS visual acuity   ○ Yes ○ No   Click to deselect entry
checked in the LEFT EYE?

Reason not done   ○ Physical problems

○ Cognitive problems

○ Physical and cognitive

○ Refused*

○ Technical problems

Protocol ID: _____   Study Subject ID:_____

Study Name: _____   Interviewer Name:_____

Site: _____   Interview Date:_____

Event Name: _____

Event Date: _____

| **Section Title: Autorefracted Distance** |
| Instructions: |

MEASUREMENT OF AUTOREFRACTED DISTANCE VISUAL ACUITY
Instruct participant to remove glasses or contact lenses (lens cases and saline are available to remove contact lenses).
Adjust the height of the chinrest with the up/down buttons so that the participant's eyes are aligned with the eye level marker on the outside of the head rest.
START BY MEASURING THE RIGHT EYE - slide machine to right.
Give the following instructions. "Look through the measuring window. You will see the picture of a balloon. Look at the center of it without straining."
Move to LEFT EYE
REPEAT steps 8 - 15
"We will now measure your visual acuity when the best lens correction is placed in front of the eye by the machine."
Ask the participant if they can read the letters on the chart.
a. According on the participant's response, press the chart up button or chart down button (see table below).
b. Record responses.
c. Continue moving "down" the chart until participant misses 3 or more letters/numbers on a line or states they cannot see the letters/numbers on the line.
d. Ensure that the participant reads every letter possible.
e. Record the number of letters/numbers read correctly on each row, and assign a sum of 5 for the rows above the first line read.

When to move the chart UP:
Participant could not read the letters/numbers presented.
Move up one line by pressing the "chart up" button once.

When to move the chart DOWN
Participant could read at least 3 letters/numbers on the line.
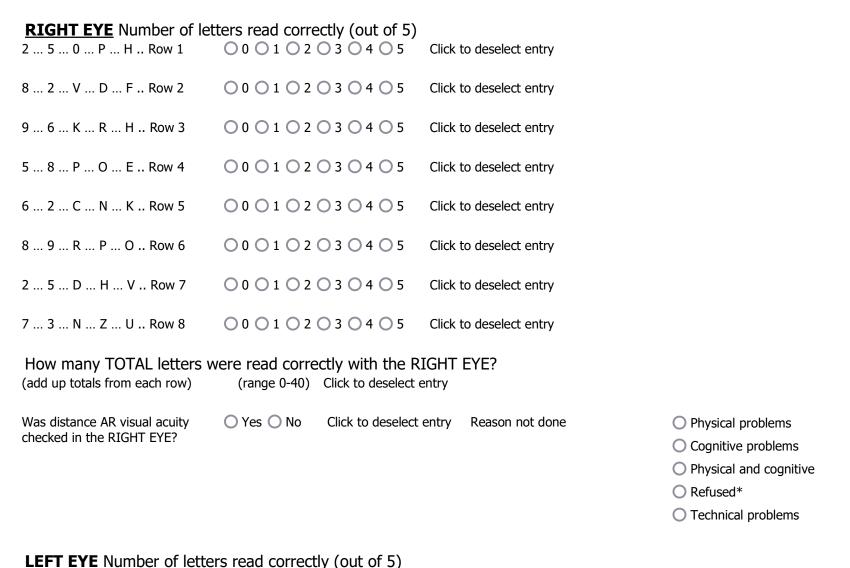Continue with testing moving down one line on the chart.

Stop the testing when the participant indicates that they can no longer see letters on the chart OR when they miss 3 or more letters on a line. When the test is completed, sum the total number of letters read for the entire chart.
Switch to the participants RIGHT EYE, and bring the RIGHT EYE into focus.
REPEAT STEP 21-23
Press the return button to exit corrected visual acuity mode to AR mode.

RIGHT EYE Number of letters read correctly (out of 5)

Row		Click to deselect entry
2 ... 5 ... 0 ... P ... H .. Row 1	○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5	Click to deselect entry
8 ... 2 ... V ... D ... F .. Row 2	○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5	Click to deselect entry
9 ... 6 ... K ... R ... H .. Row 3	○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5	Click to deselect entry
5 ... 8 ... P ... O ... E .. Row 4	○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5	Click to deselect entry
6 ... 2 ... C ... N ... K .. Row 5	○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5	Click to deselect entry
8 ... 9 ... R ... P ... O .. Row 6	○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5	Click to deselect entry
2 ... 5 ... D ... H ... V .. Row 7	○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5	Click to deselect entry
7 ... 3 ... N ... Z ... U .. Row 8	○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5	Click to deselect entry

How many TOTAL letters were read correctly with the RIGHT EYE?
(add up totals from each row)　　　　(range 0-40)　 Click to deselect entry

Was distance AR visual acuity checked in the RIGHT EYE?　　○ Yes ○ No　 Click to deselect entry　 Reason not done

○ Physical problems
○ Cognitive problems
○ Physical and cognitive
○ Refused*
○ Technical problems

LEFT EYE Number of letters read correctly (out of 5)
2 ... 5 ... 0 ... P ... H .. Row 1 　　　○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5 　　Click to deselect entry

8 ... 2 ... V ... D ... F .. Row 2   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

9 ... 6 ... K ... R ... H .. Row 3   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

5 ... 8 ... P ... O ... E .. Row 4   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

6 ... 2 ... C ... N ... K .. Row 5   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

8 ... 9 ... R ... P ... O .. Row 6   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

2 ... 5 ... D ... H ... V .. Row 7   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

7 ... 3 ... N ... Z ... U .. Row 8   ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5   Click to deselect entry

 How many TOTAL letters were read correctly with the LEFT EYE?
(add up totals from each row)   (range 0-40)

Was distance AR visual acuity   ○ Yes ○ No   Click to deselect entry
checked in the LEFT EYE?

Reason not done   ○ Physical problems
                                   ○ Cognitive problems
                                   ○ Physical and cognitive
                                   ○ Refused*
                                   ○ Technical problems

Protocol ID: _____   Study Subject ID:_____

Study Name: _____   Interviewer Name:_____

Site: _____   Interview Date:_____

Event Name: _____

Event Date: _____

Section Title: Binocular Contrast Sensitivity
Instructions:

H ... S ... Z ... ... D ... S ... N .. Row ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ 6   Click to deselect entry
1

C ... K ... R ... ... Z ... V ... R .. Row ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ 6   Click to deselect entry
2

N ... D ... C ... ... O ... S ... K .. Row ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ 6   Click to deselect entry
3

O ... Z ... K ... ... V ... H ... Z .. Row ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ 6   Click to deselect entry
4

N ... H ... O ... ... N ... R ... D .. Row ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ 6   Click to deselect entry
5

V ... R ... C ... ... O ... V ... H .. Row ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ 6   Click to deselect entry
6

C ... D ... S ... ... N ... D ... C .. Row ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ 6   Click to deselect entry
7

K ... V ... Z ... ... O ... H ... R .. Row ○ 0 ○ 1 ○ 2 ○ 3 ○ 4 ○ 5 ○ 6   Click to deselect entry
8

 How many TOTAL letters were read correctly?
(add up totals from each row)   (range 0-48)

Was contrast sensitivity checked?   ○ Yes ○ No   Click to deselect entry

Reason not done   ○ Physical problems

                                 ○ Cognitive problems

                                 ○ Physical and cognitive

                                 ○ Refused*

                                 ○ Technical problems

Protocol ID: _____

Study Name: _____

Site: _____

Event Name: _____

Event Date: _____

Study Subject ID:_____

Interviewer Name:_____

Interview Date:_____

Section Title: Stereopsis
Instructions: